

# CREATE STEM Success Initiative

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## Sample List of Supports to UC San Diego Faculty, Staff and Students (2013-2023)\*

\*This rough list, a work in progress, demonstrates types of support offered to campus partners by CSSI personnel based at CREATE. CSSI supports offered to school, district, and community partners appear on other lists. This list also does not include non-CSSI supports offered by CREATE orgs to campus and community.

\*\* Last updated: October 5, 2023

Feel free to email CREATE Director Mica Pollock with questions, edits or updates. ([micapollock@ucsd.edu](mailto:micapollock@ucsd.edu))

## Division of Biological Sciences

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### **Bier, Ethan, Professor, Cell and Developmental Biology**

2014: Leverage Biology Curriculum. CSSI began exploration of ways to leverage a biology curriculum written by Bier. Brought Sweetwater Union High School teachers to film night focused on his content.

### **Dickinson, Alexandra Jazz, Assistant Professor, Cell and Developmental Biology**

2022: CSSI staff supported grant submission, TRANSFORM: Technology, Research, And Nationwide Science For Optimized Resilience in Maize.

### **Golden, Susan, Chancellor's Associates Chair (III) in Molecular Biology, Director, Center for Circadian Biology, HHMI Professor, Distinguished Professor, Molecular Biology**

2014: BioClock Studio. CSSI helped recruit students for Winter 15 "Circadian Rhythms - Biological Clocks" course cross-listed between Molecular Biology and Psychology.

### **Jun, Suckjoon, Associate Professor, Molecular Biology**

2014: Quantitative Biology Summer Bootcamp. CSSI helped promote this NSF-funded program for UC San Diego students.

### **Meaders, Claire, Assistant Teaching Professor, Cell and Developmental Biology**

2022: CSSI staff supported grant submission, RIPPLS: Reading, Integrating and Producing Primary Literature in Science.

2020: CSSI Evaluator provided consultation on her outreach and education plans for the next school year and the associated evaluation work.

### **Mel, Stephanie, Teaching Professor, Molecular Biology**

2017: CSSI staff helped Mel and **Heather Henter, Academic Coordinator, UC San Diego Natural Reserve Systems**, to establish a partnership with Vista Unified School District and the Dawson-Los Manos, one of

four UC San Diego managed reserves. CSSI Vista Unified School District liaison recruited high school teachers at Rancho Buena Vista High School to develop Reserve field trip opportunities for students. CSSI staff worked with Henter on a course she developed for undergraduates.

2014: NSF grant: Stimulating Research on Effective Strategies in Undergraduate STEM Education at Two Year Hispanic Serving Institutions: The San Diego Biodiversity Project. CSSI supported evaluation design and data collection for the grant.

**Micou, Melissa, Academic Coordinator, Office of Research Affairs**

2014: NSF- Bioengineering REU: Program Evaluation of the UC San Diego Research Experience for Undergraduates (REU) in Regenerative Medicine, Multi-Scale Bioengineering, and Systems Biology. Evaluator conducted retrospective evaluation of years 2008 through 2013 to determine how the REU experience shaped participants' education and career goals.

2013: Howard Hughes Medical Institute: CSSI evaluator worked with Micou and **Gabriele Wienhausen, Faculty Director, Teaching + Learning Commons and CAMSEE; Distinguished Senior Teaching Professor, Cell and Developmental Biology** and **Jeffrey Remmel, Professor, Department of Mathematics**, on a grant proposal to address instructional change at UC San Diego.

**Neal, Sonya, Professor, Cell and Developmental Biology**

2020: CSSI staff designed evaluation plan and provided letter of support for grant proposal, Discovering Rhomboid Dynamics and Function in Membrane Protein Homeostasis.

**Patrick, Gentry, Professor, Neurobiology**

2019: San Diego Unified School District's Power of Pathways and Partnerships Conference. CSSI leadership recruited Patrick as keynote speaker.

2018: African American Achievement Summit. CSSI connected Patrick to the San Diego Unified School District's first annual African American Achievement Summit. Patrick session on STEM majors and fields for district high school students at inaugural district event.

2017: CSSI staff consulted with Patrick and **Leigh Eck, PATHS Program Coordinator**, to talk about the design of the PATHS program and potential evaluation.

**Pekkurnaz, Gulcin, Assistant Professor, Neurobiology**

2021: CSSI Research Evaluation staff provided a consultation on a NSF career grant evaluation.

**Perry, Michael, Assistant Professor, Cell and Developmental Biology**

2023: San Diego Science Project director supported Dr. Perry's Butterfly Gardens for SDUSD 1-day workshop for Crawford and Hoover High School teachers to learn how to plant a butterfly garden and support data collection on pollinators using the app, Budburst.

2022: CSSI staff provided letter of support for grant submission, Comparative Genomic Approaches to Unraveling Neural Complexity.

2021: CSSI provided consultation on a CAREER grant.

**Posakony, Jim, Distinguished Professor, Cell and Developmental Biology**

2014: Use of Free Genome Tool. CSSI supported use of genome tool for analyzing and interpreting real data in high school classroom in Fall 2014, including Genome PD/ STEM walkthrough of Reuben H. Fleet

Science Center exhibit with local teachers and six UC San Diego faculty/grad students.

**Rifkin, Scott, Associate Professor, Ecology, Behavior, Evolution**

2020: SDSP provided a consultation to Dr. Scott Rifkin.

**Schmelz, Eric, Professor, Cell and Developmental Biology**

2020: CSSI science leadership collaborating with Schmelz and Philipp Zerbe, assistant professor, Plant Biology, UC Davis to develop a lesson study for high school teachers.

2018: NSF-PBI: Modular biochemical networks of maize anti-pathogen defense defined by integrating synthetic biochemistry, genetics and physiological function. CSSI provided a lesson study proposal and letter of support.

**Schroeder, Julian, Torrey Mesa Research Institute Chair in Plant Science (Novartis), Distinguished Professor, Cell and Developmental Biology**

2015: NSF Center for Research on Plant Transporters (CROPS) - A Plant Community Resource for the Structure and Function of Plant Membrane Transporters Underlying Important Crop Traits. CSSI consulted with Schroeder for assistance with broader impact portion of the grant.

**Seethaler, Sherry, Director, Education Initiatives, Division of Physical Science**

2014: NSF IUSE: From Symbol Manipulation to Meaning Making: A cross-disciplinary video development project to promote fluency with mathematics in science. CSSI staff to perform the evaluation of a program designed to integrate online video content with core mathematics courses at UC San Diego. With Jeffrey Remmel, Professor, Department of Mathematics.

**Shurin, Jonathan B., Professor, Ecology, Behavior & Evolution**

2021: CSSI Outreach Director supported Dr. Shurin by providing a space and resources to run a pilot program on water conservation that can be referenced for future grant submissions.

2019: NSF: Back From the Brink or Over the Falls? Feedbacks Between Ecosystems, Human Health and Food and Water Security in Latin America. CSSI to provide engagement with the local community and under-represented students for the broader impacts part of the grant.

**Troemel, Emily, Professor, Cell and Developmental Biology**

2015: CSSI provided letter of support in submitting a grant to NSF. Possible broader impact efforts included linking a graduate student from her lab to design K-12 applications with teachers.

**Wienhausen, Gabriele, Faculty Director, Teaching + Learning Commons and CAMSEE; Distinguished Senior Teaching Professor, Cell and Developmental Biology**

2017: Teaching + Learning Commons. CSSI leadership supported collaboration with Teaching + Learning Commons and Student Affairs, exploring grade 13 math experiences at UC San Diego.

2017: Center for Advancing Multidisciplinary Scholarship for Excellence in Education (CAMSEE). CSSI leadership linked to a new student outreach organization, Support, ENcourage and Develop for Children, Inc. (SENDforC) via CAMSEE.

2017: CSSI evaluators provided support for grant application and exploration of diversity events for CAMSEE.

2016: CSSI helped arrange and attended a workshop for CAMSEE to help advise them about IRB.

2013-2014: Math & Science Alliance (MaSA) development. CSSI supported MaSA in overall grant

development with Wienhausen and **Jeffrey Rummel, Professor, Department of Mathematics**, and explored grants/evaluation.

2014: Triton Project. CSSI consulted on evaluation for program designed to help students with the transition to campus or to improve the quality of teaching once students matriculate.

2014-current: Teaching + Learning Commons. CSSI evaluators serve in an advisory role; focus is on value of various evaluation strategies.

2013: Howard Hughes Medical Institute: CSSI evaluator worked with Wienhausen and **Jeffrey Rummel, Professor, Department of Mathematics**, on a grant proposal to address instructional change at UC San Diego.

2014-2019: Wienhausen served as a member of the CSSI Internal Advisory Board.

### **Yelon, Deborah, Herbert Stern Chair in Biology, Professor and Vice Chair, Professor, Cell and Developmental Biology**

2014: NSF: Organizing Organ Fields: Patterning of Posterior Mesoderm by Hand2. CSSI staff wrote a new letter of support for the establishment of a new science outreach program ("BioEYES").

## **Division of Physical Sciences**

### **Chemistry and Biochemistry**

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#### **Bussey, Thomas, Assistant Teaching Professor, Chemistry and Biochemistry**

2015: CSSI/San Diego Science Project Director consulted with Bussey to outline a program to bring high school teachers to the UC San Diego campus to work alongside researchers to experience how scientists integrate NGSS 3-dimensional learning.

#### **Budin, Itay, Assistant Professor, Chemistry and Biochemistry**

2023: CSSI staff consulted on grant submission, Collaborative Research: IntBIO: Rules for Cell Membranes in the Extremes of the Deep Sea.

2022: SDSP Director/CSSI staff developed outreach program for grant, Structure, Function, and Evolution of Membrane Domains in Living Cells.

2021: SDSP Director/CSSI staff supported the funded grant CAREER: Structure, Function, and Evolution of Membrane Domains in Living Cells. SDSP Director will lead the Lesson Study that will develop a lesson of the research to high school students.

2020: NSF CAREER: CSSI leadership provided consultation for an NSF CAREER grant proposal.

#### **Cohen, Seth, Professor, Chemistry and Biochemistry**

2013: Howard Hughes Medical Institute Masters Project Internships. CSSI to provide evaluation of undergraduate and graduate programs in chemistry at UC San Diego.

#### **Deshmukh, Lalit, Assistant Professor, Chemistry and Biochemistry**

2022: SDSP Director/CSSI staff consulted on implementation of awarded NSF grant outreach component. The SDSP Director suggested timelines to follow that can support the current K-12 educational context.

2020: SDSP Director/CSSI staff consulted on the funded grant CAREER: Mechanism of Phosphorylation-Mediated Dissolution of Amyloid Fibrils. Twenty San Diego County high school students

from URM schools will, through a Lesson Study Protocol, be coupled with existing REU programs at their respective schools to improve the STEM K-20 pipeline in the San Diego County education community.  
2020: NSF CAREER: CSSI leadership provided consultation for an NSF CAREER grant proposal.

**Devaraj, Neal, Professor, Chemistry and Biochemistry**

2021: CSSI staff supported grant proposal Chemoenzymatic Construction of a Programmable Synthetic Endoplasmic Reticulum.

2020: CSSI staff supported grant proposal Dissipative Vesicle Assemblies Driven by Chemical Fuels.

2014-16: NSF CAREER: C Vesicle Growth Driven by Catalytic Lipid Synthesis. CSSI helped Devaraj write an outreach plan for his grant that funded a new Hands on Lab (HOL) class hosted in the Department of Education Studies and run by the San Diego Science Project.

**Ferguson, Fleur, Assistant Professor, Chemistry and Biochemistry**

2023: San Diego Science Project Director consulted with Fleur Ferguson to design the K12 outreach component of a project where students will explore Targeted Protein Degradation.

2022: CSSI staff supported the submission of grant proposal CAREER: Investigating Kinetic Mechanisms of Targeted Protein Degradation at Scale.

**Franks, Sharon, Director, Research Proposal Development Service, Office of Research Affairs**

2019: CSSI evaluator attended CAREER forum to introduce CREATE/CSSI outreach and evaluation services to Franks and the RAPIDS team to distribute to interested campus PIs and potential PIs.

**Godula, Kamil, Assistant Professor, Chemistry and Biochemistry**

2018: NSF NRT IGE: Dynamic Assemblies of Artificial Glycocalyx Structures to tune interactions at cellular boundaries. CSSI evaluator wrote a letter of collaboration for the grant.

2017: NSF Career: Synthesis of Model Mucosal Barriers to Evaluate Effects of Glycan Presentation on the Regulation and Evolution of Influenza A Virus Function. CSSI evaluator worked with Godula.

2017: NSF NRT IGE Model for Glycoscience Degree Specialization for STEM Graduate Students. CSSI provided a letter of support for this three-year project.

**Komor, Alexis, Assistant Professor, Chemistry and Biochemistry**

2019: CSSI evaluator consulted with Komor about her work and potential NSF CAREER application.

**Prather, Kimberly, Distinguished Professor and Chair in Atmospheric Chemistry, Scripps Institution of Oceanography and the Department of Chemistry and Biochemistry; Director, Center for Aerosol Impacts on Chemistry of the Environment.**

2013-18: NSF Chemistry Center Grant: CSSI provided consultation for evaluation for an education outreach component for the CAICE grant.

**Rinehart, Jeffrey, Assistant Professor, Chemistry and Biochemistry**

2016: NSF CAREER: Colloidal Synthetic Methods for Nanoscale Magnetic/Conductive Interfacial Materials. CSSI wrote outreach plan.

**Sailor, Michael, Professor, Chemistry and Biochemistry**

2021: CSSI Evaluators advised on evaluation plan and gathered UC San Diego enrollment and retention data for UC San Diego to support NSF PREM proposal *Discovery of Functional Materials for Energy Harvesting and Information Processing*.

2020: SUHSD provided a letter of support to Dr. Michael Sailor for NSF proposal entitled Collaborative Proposal: RET Site: Research in Materials Science and Engineering at UC Santa Barbara and UC San Diego.

2019: NSF Materials Research Science and Engineering Center (MRSEC). CSSI leadership and evaluators are included in the grant.

**Sawrey, Barbara, Emeritus Teaching Professor, Chemistry and Biochemistry; Associate Vice Chancellor, Academic Affairs; Dean, Undergraduate Education**

CSSI leadership supported campus work on K-20 database project.

**Schimpf, Alina, Assistant Professor, Chemistry and Biochemistry**

2020: CSSI staff modified education and evaluation plan and provided letter of support for grant proposal resubmission *Accessing Tunable, Doped Metal Oxide Materials via Coordination Assembly of Molecular Clusters*.

2019: Cottrell Scholars Award: Accessing Tunable, Doped Metal Oxide Materials via Coordination Assembly of Molecular Clusters. CSSI evaluator consulted on the grant.

2019: NSF CAREER grant: CSSI evaluator consulted with Schimpf on the proposal and provided a letter of support.

**Schimdt, Valerie, Asst. Professor, Chemistry and Biochemistry**

2019: Cottrell Scholars Award: Light Mediated Metal-Ligand Cooperativity Activation Strategies for Chemical Synthesis. CSSI evaluator consulted on the grant.

2019: NSF CAREER grant: CSSI evaluator consulted with Schimdt on the proposal.

**Thiemens, Mark, Distinguished Professor, Chemistry and Biochemistry; Chancellors Associates Chair**

2014-2016: Thiemens served as a member of the CSSI Internal Advisory Board.

**Yuen Zhou, Joel, Assistant Professor, Chemistry and Biochemistry**

2022: CSSI staff provided outreach support for the awarded grant, Molecular Polaritonics: New Opportunities for Spectroscopy and Control of Charge and Energy Transport.

2017: NSF CAREER: Molecular Polaritonics: New Opportunities for Spectroscopy and Control of Charge and Energy Transport. CSSI assisted with the broader impacts section of the NSF proposal; secured letter of commitment from Sweetwater Union High School District for the grant.

**Zid, Brian, Assistant Professor, Chemistry and Biochemistry**

2021: CSSI staff supported grant submission, Mechanism and Function of Condition Dependent Mitochondrial mRNA Localization

2020: NSF proposal consultation: CSSI science leadership is part of collaborative planning for an NSF grant with an improved Broader Impact component. San Diego Science Project will facilitate a lesson study focused on cell homeostasis.

**Mathematics**

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**Harel, Guershon, Professor, Department of Mathematics**

2022: UC San Diego Math Project Director/CSSI Staff resubmitted Mathematics Education Paper with Dr. Harel.

2020: DoDEA grant: Project MaSTerS in Math (Marching Students Toward Success in Math). CSSI mathematics specialist is co-PI with Harel to provide teacher professional development to military connected schools.

2020: Multicampus Research Programs and Initiatives (MRPI) Grant. With **Michael Holst Professor, Department of Mathematics; Stefan Llewelyn-Smith, Professor, Mechanical and Aerospace Engineering. Cheryl Peach, Scripps Institute of Oceanography.** CSSI mathematics leadership worked on revision of grant for submission.

2019: NSF Noyce: A Leadership Development Program Through an Innovative Approach to the Learning and Teaching of Mathematics. CSSI evaluator wrote the evaluation section and provided editing support for the main proposal.

2019: NSF Noyce Track 4: Collaborative Research: Exploring the Impact of Noyce Master Teaching Fellowship Programs on Teacher Retention: The Role of Motivation, Leadership, and School-Work Environment. This grant is a collaboration among eight universities, including UC San Diego. CSSI mathematics leadership to support the grant.

2019: NSF Research Experiences for Teachers (RET) in Engineering and the Environment: Physically Motivated Mathematical Modeling. **With Stefan Llewellyn-Smith, Professor, Mechanical and Aerospace Engineering.** The grant will combine summer research experience in the research groups of faculty working at the junction of engineering and environmental issues with pedagogical activities. CSSI mathematics lead to provide professional development.

2015: NSF Noyce: Teaching Mathematics in the Middle Grades: An Innovative Approach to Common Core-Based Professional Development for Teacher Leaders. Grant to focus on quantitative reasoning and the eight Standards for Mathematical Practices for Master Teaching Fellows and math teachers. CSSI evaluators prepared an evaluation plan.

2014: NSF Noyce: Teaching Meaningful Math for Middle Grades. CSSI supported Math for America San Diego in a grant for creating and training math teacher leaders at the middle school level.

2014: NSF: Investigating How the Dynamics Within an On-line Mathematics Teacher Professional Learning Community Transform Knowledge into Classroom Practice. With **Jeffrey B. Remmel, Professor, Department of Mathematics** and **Sherry Seethaler, Director, Education Initiatives, Division of Physical Science.**

**Holst, Michael, Professor, Department of Mathematics**

2020: Multicampus Research Programs and Initiatives (MRPI) Grant. With **Guershon Harel, Professor, Department of Mathematics; Stefan Llewelyn-Smith, Professor, Mechanical and Aerospace Engineering. Cheryl Peach, Scripps Institute of Oceanography.** CSSI staff worked on revision of grant for submission.

**Kedlaya, Kiran, Professor, Department of Mathematics, Stefan E. Warschawski, Endowed Chair in Mathematics**

2018: CSSI consulted with Equity, Diversity and Inclusion office to provide general consulting and advice/support for Kedlaya's work to launch a new summer camp for URM elite math middle school students at UC San Diego. This is a replication of a successful camp he helps oversee on the East Coast.

**Lin, Jianfeng Assistant Professor, Department of Mathematics**

2020: CSSI staff provided consultation on CAREER:Refinements of Gauge Theoretic Invariants for Low-dimensional Manifolds.

**Rabin, Jeffrey, Professor, Department of Mathematics**

2019: NSF Noyce: San Diego Enhanced Mathematics Initiative Master Teaching Fellowship. With **Christopher Halter, Teaching Professor, Department of Education Studies**. CSSI mathematics leadership to support research of teacher professional development.

2015-2019: CSSI-led Bill & Melinda Gates Foundation grant. Served as San Diego Math Network Advisor. CSSI staff involved Rabin in the advisory council for the brand-new, constituted UC San Diego Math Project.

**Rommel, Jeffrey B., Professor, Department of Mathematics**

2017: NSF S-STEM: A Program to Provide Scholarships, Basic Skill Building, and Early Research Experience to First- and Second-year Students at UC San Diego; with **Gabriele Wienhausen, Faculty Director, Teaching + Learning Commons and CAMSEE; Distinguished Senior Teaching Professor, Cell and Developmental Biology**. CSSI leadership reviewed the grant.

2015: NSF: Investigating How the Dynamics Within an On-line Mathematics Teacher Professional Learning Community Transform Knowledge into Classroom Practice, with **Guershon Harel, Professor, Mathematics Department**. CSSI leadership to help lead professional development and provide evaluation services.

2014: NSF IUSE: From Symbol Manipulation to Meaning Making: A Cross-disciplinary Video Development Project to Promote Fluency with Mathematics in Science. CSSI staff to perform the evaluation of a program designed to integrate online video content with core mathematics courses at UC San Diego. With **Sherry Seethaler, Director, Education Initiatives, Division of Physical Science**.

2013-2014: Summer Bridging Program for Incoming Transfer Students; with **Alan Houston, Former Provost, Eleanor Roosevelt College, Professor, Department of Political Science, Mohan Paturi, Professor, Computer Science and Engineering, and Gabriele Wienhausen, Faculty Director, Teaching + Learning Commons and CAMSEE; Distinguished Senior Teaching Professor, Cell and Developmental Biology**. CSSI staff evaluated the Summer Bridging Program designed to improve the readiness and time to degree of students transferring to UC San Diego from community colleges.

2013: Howard Hughes Medical Institute: CSSI evaluator worked with Rommel and **Gabriele Wienhausen** on a grant proposal to address instructional change at UC San Diego.

2015-2017: Rommel served as a member of the CSSI Internal Advisory Board.

**Samaniego, Kimberly, Executive Director, Mathematics Diagnostic Testing Project (MDTP)**

2019: CSSI mathematics leadership invited Samaniego to serve on advisory committee for the new UC San Diego Math Project.

2016: NSF DRK-12: With **Adam J. Burgasser, Professor, Department of Physics**, Sweetwater Unified School District and National School District. CSSI connected Burgasser as PI and Samaniego to the grant.

2016-18: Kyoto Laureate Symposium. CSSI staff including Vista Unified School District Liaison, worked with Arnold and Samaniego to bring high school students to annual campus event.

**Stevens, Laura, Associate Teaching Professor, Department of Mathematics**

2015-2019: CSSI-led Bill & Melinda Gates Foundation grant. Served as San Diego Math Network Advisor.

**Warnke, Lutz, Visiting Associate Professor, Department of Mathematics**



2022: Math Project Director/CSSI staff provided outreach component support for NSF broader impacts award.

**Xiao, Ming, Assistant Professor, Department of Mathematics**

2022: Math Project Director/CSSI staff developed outreach program, recruited teachers and student for Summer Math Programs.

2020: CSSI mathematics leadership provided consultation on CAREER: Geometric Function Theory in Several Complex Variables proposal.

**Zhang, Danna,, Assistant Professor, Department of Mathematics**

2022: Math Project Director/CSSI staff developed outreach program, recruited teachers and student for Summer Math Programs

## Physics

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**Burgasser, Adam J., Professor, Physics**

2021: CSSI Staff supported grant submission, Collaborative Research: Galactic Archaeology with the Lowest Mass Stars and Brown Dwarfs in Preparation for the Next Generation of Deep Surveys.

2020: CSSI staff provided consultation on IRB.

2020: CSSI Evaluator co-developed evaluation plan and provided letter of support for grant proposal Collaborative Research: *Galactic Archaeology with the Lowest Mass Stars and Brown Dwarfs in Preparation for the Next Generation of Deep Surveys*.

2020: UC-HSI DDI: A Regional Framework for UC-HSI Partnership in Physics and Astronomy. CSSI leadership provided letter of support to provide consultation on community coordination and program assessment.

2016: NSF DRK-12: With **Kimberly Samaniego, Director, Mathematics Diagnostic Testing Project (MDTP)**, Sweetwater Unified School District and National School District. CSSI connected Burgasser as PI and Samaniego to the grant.

2015-2018: With Olivia Graeve, Professor, Mechanical Aerospace/Engineering, California Mathematics & Science Partnership Grant, Cohort 11 Power: Solving Problems through Engineering in the Physical Sciences (POWER). Burgasser and Graeve contributed their scientific and engineering knowledge at professional development workshops for 80 K-5 teachers in the South Bay.

2015: Beach Physics. CSSI helped advise and connect program to school administrators in the La Jolla cluster to secure and enact programming funded by the La Jolla Women's Foundation.

2013: NSF: Collaborative Research: Ultra Cool Dwarf Distribution Functions in the Solar Neighborhood Based on a Decade of SpeX Prism Spectroscopy. CSSI provided grant support.

**Duarte, Javier, Assistant Professor, Physics**

2020: Consultation: CSSI leadership and outreach consulted with Duarte to discuss future STEM collaborations.

**Du, Chunhui, Assistant Professor, Physics**

2020: CSSI staff provided evaluation and support letter for grant proposal CAREER: Nanoscale Quantum Sensing and Imaging of Antiferromagnetic Insulators.

2020: NSF CAREER: Quantum Sensing and Imaging of Low-Dimensional Superconducting Systems. CSSI evaluator in advisory role (resubmitted).

2019: NSF CAREER: Quantum Sensing and Imaging of Low-Dimensional Superconducting Systems. CSSI evaluator in advisory role.

**Grover, Tarun, Assistant Professor, Physics**

2022: CSSI Liaison supported teacher and student recruitment for Physics Workshop.

2021: CSSI Liaison supported the organization of a “Back-of-the-Envelope Physics Workshop”. Three sessions were offered to VUSD grade 11-12 students.

2017: NSF CAREER: Quantum Entanglement and Geometric Frustration in Correlated Metals. CSSI evaluators consulted to help design and develop outreach/education pieces with associated self-evaluations for his CAREER proposal. Vista Unified School District CSSI liaison provided letter of support. Coordinated with VUSD liaison to provide Physics K-12 Workshops to bring students from local schools with a high percentage of underrepresented minorities and socio-economically disadvantaged students to the UC San Diego campus.

**Keating, Brian, Professor, Physics**

2014: QAMA Project. This project studied the ways students use calculators to better understand math and improve math estimation ability. CSSI evaluators investigated with outside funding sources how a unique calculator might influence math students.

**Keres, Dusan, Associate Professor, Physics**

2013-2015: Collaborative Research: CDS & E: FIRE: Physically-Predictive Cosmological Simulations of Galaxy Formation with Resolved Feedback. CSSI staff helped Keres connect to Clairemont High School and The Preuss School at UCSD astronomy efforts to consider how his work could support teachers and students in learning about astronomy.

**Koslover, Elena F., Assistant Professor, Physics**

2017: NSF CAREER: Intracellular Motion: The Physics of Transport in Eukaryotic Cells. CSSI Vista Unified School District liaison provided letter of collaboration for the grant proposal. Grant to help local high school or middle school science teachers develop low-cost hands-on lab activities in physics and biology to incorporate into their classrooms.

**Norman, Michael L., Distinguished Professor, Physics; Director, San Diego Supercomputer Center**

2017-current: Norman has served as a member of the CSSI Internal Advisory Board.

**You, Yi-Zhuang, Associate Professor, Physics**

2021: CSSI Evaluator provided consultation on CAREER grant.

**Divisions of Biological and Physical Sciences Student Supports**

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The CSSI works with student organizations listed below on numerous on- and off-campus STEM outreach events, including: 52 Weeks of Science, Barrio Logan Science and Art Expo, Comienza Con un Sueño, Future Faces of STEM, High Tech High Fair, Noche de Ciencia, SciComm Incubator, Science Nights at

Sherman Elementary, Sherman Elementary Science Club, REV2 for transfer students at Revelle College, STEMengineering Day, Stemming 4 Success, STEM in Your Backyard, Students With Academic Goals, Super STEM Saturday and Vista Unified School District STEM FEST.

#### **American Chemical Society – Student Affiliates**

2017-present: Participates in Comienza con un Sueño annual conferences and other STEM events.

#### **American Institute of Chemical Engineers at UC San Diego**

2017-present: Participates in Comienza con un Sueño annual conferences and other STEM events.

#### **BioEASI (Bio Education and Art for Science Innovation)**

2019-present: CSSI partners with graduate students in the Division of Biological Sciences and the Salk Institute for Biological Sciences. Each quarter, a group of BioEASI volunteers prepare and teach a series of lessons on a scientific theme to a group of students who are incarcerated at East Mesa Re-Entry Facility (men) or Las Colinas Detention and Re-Entry Facility (women). This program is a partnership between BioEASI, CSSI at CREATE, and the San Diego County Sheriff's Department.

#### **National City Restorative Education About Plants (REAP) - UCSD**

2021: CSSI Outreach Coordinator supported graduate students set-up the program and applying for funding.

#### **Society for Women in Graduate Studies in Chemistry and Biochemistry**

2017- present: Participates in Comienza con un Sueño annual conferences and other STEM events.

#### **Society for Advancement of Chicanos/Hispanics and Native Americans in Science (SACNAS) at UC San Diego**

2017-present: Participates in Comienza con un Sueño annual conferences and other STEM events.

#### **SciComm Incubator**

2019: Assisting the student group for upcoming training via SciComm Incubator, which provides nine week training for undergrads in science communication.

#### **BioScholars**

2015: Advised and connected Bioscholars (**undergraduate biology honors group**) to start their science journal program with The Preuss School UCSD as well as connected them to the STARS program to help launch the new community college transfer student components of STARS.

#### **Hands On Lab**

2014-15: CREATE helped Professor Neal Devaraj write an outreach plan for his CAREER grant that funded a new Hands on Lab (HOL) class hosted in Education Studies and run by the San Diego Science Project. In 2014 the HOL served 40 TRIO/Upward Bound Math & Science students and their teachers at Clairemont, Hoover, and Mission Bay High Schools, and 50 students in 2015, including students from Lincoln High School. The program engaged **STEM undergraduates in the hands-on teaching of science** using Devaraj's content. **Graduate students provide biochemistry content** for the science lessons, while TRIO/Upward Bound Math & Science hosted additional on-campus enrichment experiences including lab visits, and conversations with UC San Diego students and faculty.

### **BioClock Studio**

2014: CREATE **helped recruit students** for Winter 15 "Circadian Rhythms - Biological Clocks," course cross-listed between Molecular Biology and Psychology. The BioClock Studio is an innovative course concept in which a team of undergraduate students, drawn from diverse disciplines, will work collaboratively to develop their scientific and communication skills and produce innovative educational materials to enhance scientific understanding within and among different audiences.

### **Biology Essay Competition: Saltman Quarterly**

2014: Helped **Biology undergraduates** connect to teachers in Sweetwater Union High School District and Lincoln High School's STEAM team for a high school biology essay competition for the Saltman Quarterly.

### **Genome Tool**

2014: CREATE supported use of Dr. Jim Posakony's genome tool for analyzing and interpreting real data in high school classroom in Fall 2014, including Genome PD/ STEM walkthrough of Fleet exhibit with local teachers and UC San Diego faculty and six graduate students.

### **QAMA Project**

2014: Recruited a graduate student to work with the CREATE evaluation team on a project funded by Dr. Brian Keating to study the ways students use calculators to better understand math and improve math estimation ability.

## **UC San Diego Jacobs School of Engineering**

### **Bioengineering**

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#### **Contijoch, Francisco, Assistant Professor, Bioengineering**

2021: CSSI staff supported grant submission, CAREER: High Resolution Mapping of Borderzone Dysfunction with Computed Tomography.

2020: CSSI staff provided evaluation and letter of support for grant proposal CAREER: *Computed Tomography Mapping of Myocardial Work, Contractility, and Contractile Reserve*.

2019: NSF CAREER: Focused CT Acquisition and Reconstruction for Task-optimized Imaging. CSSI leadership and evaluator worked with Contijoch on the evaluation of the education and outreach component of the proposal. Helped him to design the education piece and create and write up an evaluation plan and wrote him a letter of support.

#### **Engler, Adam, Professor and Vice-Chair, Bioengineering**

2017-2018: CSSI evaluator contacted to conduct an evaluation of their REU program as it neared the end of the granting cycle for resubmission.

#### **Kwon, Ester, Assistant Professor, Bioengineering**

2022: SDSP Director/CSSI staff developed outreach program for the grant, An Engineered Nanosensor to Measure in Vivo Protease Activity in Traumatic Brain Injury. This included assistance in recruiting teachers for the program.

2020: NSF CAREER: CSSI leadership spoke with Kwon about her potential CAREER application.

## Computer Science and Engineering

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### **Alvarado, Christina, Teaching Professor, Computer Science and Engineering**

2019-current: Alvarado serves as member of the CSSI Internal Advisory Board.

2013-2016: NSF CE-21 BP: CSE Early Research Scholars Program. CSSI staff to evaluate program intended to increase the retention and success of URM students in undergraduate computer science majors at UC San Diego.

### **Cottrell, Garrison W., Professor, Computer Science and Engineering**

2020: CSSI staff supported RET NSF Grant *Pathways to AI Teacher Summer Program* by gathering letters of support from local districts and SDCOE.

### **Kastner, Ryan, Professor, Computer Science and Engineering**

2019: NSF REU Engineers for Exploration (E4E) REU. CSSI evaluator completed the evaluation of E4E REU for undergraduate engineering students. Co-conducted analyses, co-wrote report, and sent findings to Curt Schurgers, Associate Teaching Professor, Electrical and Computer Engineering, Ramesh Rao, Professor, Electrical and Computer Engineering & Qualcomm Institute and Kastner.

2018: NSF REU Engineers for Exploration (E4E) REU. CSSI helped with the evaluation piece for the renewal application.

2016-2018: CSSI has conducted evaluations of the summer Engineers for Exploration (E4E) REU. CSSI helped with the evaluation piece for the renewal application.

### **Lerner, Sorin, Professor, Computer Science and Engineering**

2018: With **Veronica Abreu, Student Affairs Officer**, CSSI evaluators consulted to help Lerner and Abreu design and implement surveys and interviews with their undergraduate and graduate students.

### **Lin, Albert, Asst. Research Scientist, Qualcomm Institute**

2015: Planet-3: CSSI/San Diego Science Project Director worked with Lin to recruit middle school teachers to pilot their program, Planet3. Planet3 is a 3D software, project-based program that provides students with a digital avenue to enhance their learning in the STEAM disciplines. CSSI Science Project Director also referred middle school teachers to pilot the software.

### **Minnes, Mia, Associate Teaching Professor, Computer Science and Engineering**

2015: Academic Advising Innovation Grant Initiative. CSSI staff provided evaluation.

### **Pevzner, Pavel A., Ronald R. Taylor Professor of Computer Science and Engineering; Director, NIH Center for Computational Mass Spectrometry, Computer Science and Engineering**

2013: NIH Open Educational Resources for Biomedical Big Data. CSSI staff wrote letter of support promising outreach and evaluation consultation.

**Paturi, Ramamohan, Professor, Computer Science and Engineering**

2015: UC San Diego Summer Academy. New program for incoming STEM transfer students provided students with the scaffolding and tools they will need to succeed at UC San Diego. CSSI evaluator supported the instructors and designers of this program and provided evaluation.

**Politz, Joe Gibbs, Assistant Teaching Professor, Computer Science and Engineering**

2018: NSF RPP: Computer Science for All Researcher Practitioner Partnerships (CSforAll RPP): Towards Bootstrap for All: Adapting Bootstrap Curricula to District Priorities. CSSI leadership to connect Politz to regional school districts for this grant.

**Porter, Leonard E., Assistant Teaching Professor, Computer Science and Engineering**

2018: Coordinated field trip with CSSI liaison from San Diego Unified School District for 30 Morse High School APCSP students. Field trip featured lab tours, student panels and interactions with UC San Diego faculty/students.

2015: NSF CS10K: Collaborative Research: LearnToMod for AP Computer Science Educators (LACE). Grant to offer Coursera online teacher training for ramping up access to computer science instruction. CSSI leadership wrote the research section.

**Soosai Raj, Adalbert Gerald, Assistant Teaching Professor, Computer Science and Engineering 2020:**

2019: CSSI leadership consulted with Soosai Raj to discuss K-12 bilingual computer science teaching and outreach opportunities.

2019: Code.org workshop participant. Soosai-Raj attended a Code.org Night of Coding in December and helped demonstrate coding to bilingual students.

2019: U.S. Office of Elementary and Secondary Education (OESE): Education Innovation and Research (EIR) Program: Computer Science for English Learners (CSforEL): Increasing Participation and Achievement in Advanced Placement Computer Science Principles (AP CSP) for English

Learners. Soosai-Raj included in a grant to provide support to new curriculum and professional development for high school computer science teachers across three states: CA, AZ, and NM.

**Computer Science and Engineering Student Supports**

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**Cosman, Benjamin, Doctoral Student, Computer Science Engineering**

2017: CSSI supported TESC (Triton Engineering Student Council) to execute SPLASH@UCSD, an informal learning event like MIT and Stanford's, where UC San Diego students teach classes to high school students; shared information with district partners to disseminate to students.

2016: CSSI staff attended year-long, ongoing meetings to advise on planning, implementation and participant recruitment of high school students from diverse communities.

**Electrical and Computer Engineering**

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**Baghdadchi, Saharnaz, Assistant Teaching Professor, Electrical and Computer Engineering**

2023: CSSI supported the grant submission, Development and Implementation of the Quantum Sensing Educational Kit.

2019: Project in a Box: CSSI staff collaborated with Project in a Box group and Baghdadchi to coordinate Technology Training Institute in summer.

2018: Baghdadchi led the STEM for Girls workshops. CREATE/CSSI staff helped fill the class.

2017: CSSI leadership consulted with Baghdadchi to discuss NSF RET site proposal ideas.

**Cosman, Pamela C., Professor, Electrical and Computer Engineering, Faculty Equity Advisor, Jacobs School of Engineering**

2020: SDSP Director/CSSI staff recruited teacher participants to implement Dr. Cosman's high school student lessons on communications engineering.

2019: CSSI leader consulted with Cosman and Jeff Major, President and Director of Training at CA Math & Science, Inc. to discuss possible Bot Ball Tournament on campus.

2018: Sloan Foundation grant - A Preliminary Study of the Relationships Between Implicit Bias, Inequity in Graduate School Experiences, and Program Persistence for URM and Female Doctoral Students in STEM. CSSI researcher to serve as PI to study URM and female grad student experiences in STEM, and more specifically, potential inequities and how they relate to education and career goals.

2016: NSF IUSE-RED: Engineering the Engineer (ETE): A Revolutionary Model for Preparing Incoming Students and for Training "Complete" Engineers. CSSI researcher will act as the program evaluator. Prepared a budget, wrote the evaluation piece, and provided feedback and advice on the structure of the proposed plan and proposal.

2014-2019: Cosman served as member of CSSI Internal Advisory Board.

**Fainman, Shaya F., Distinguished Professor, Electrical and Computer Engineering**

2014-present: CIAN (Center for Integrated Access Networks). CSSI coordinator develops and provides CIAN outreach activities that also include CIAN in numerous CSSI Outreach events. CSSI facilitates the Research Experience for Teachers (RET) teacher recruitment and ensure RET resources go to underserved schools and CIAN Summer Research Experience for Undergraduates (REU).

**Javidi, Tara, Professor, Electrical and Computer Engineering**

2019: Cloud-Based Robotics Lab grant proposal. Drawing on work in CREATE, Birch Aquarium and Seaport Learning Center, CSSI/Birch Aquarium liaison supported the proposal's multiple goals: educational equity in K-12 and connecting students with robotics in oceanography. CSSI staff will work with Javidi if the grant is awarded.

**Kahng, Andrew, Professor, Computer Science and Engineering**

2020: CSSI staff provided letter of support for *TILOS: The Institute for Learning-enabled Optimization at Scale*.

**Kuzum, Duygu, Assistant Professor, Electrical and Computer Engineering**

2016: NSF CAREER: Living Bioelectronics Based on Synaptic Memory Devices. CSSI leadership provided letter of commitment.

**Lin, Bill, Professor, Electrical and Computer Engineering**

2022: CSSI Staff supported grant submission, From Promise to Reality: Empowering Low-Income Students Through High Impact Practices to Achieve Academic and Professional Success in Engineering.

**Lo, Yu-Hwa, Professor, Electrical and Computer Engineering**

2021: CSSI STEM Community & Outreach Coordinator led management of SDNI REU.  
2020: CSSI STEM Community & Outreach Coordinator led management of SDNI REU.  
2019: CSSI STEM Community & Outreach Coordinator led management of SDNI REU.  
2018: CSSI STEM Community & Outreach Coordinator led management of SDNI REU & SDNI RET.

**Rao, Ramesh, Professor, Electrical and Computer Engineering & Qualcomm Institute**

2019: NSF REU Engineers for Exploration (E4E) REU. CSSI evaluator completed the evaluation of E4E REU for undergraduate engineering students. Co-conducted analyses, co-wrote report, and sent findings to Curt Schurgers, Associate Teaching Professor, Electrical and Computer Engineering, Ryan Kastner, Professor, Computer Science and Engineering and Rao.  
2018: CSSI staff worked with Calit2 group on several outreach events.  
2017: SRCP (Summer Research Communications Program). CSSI evaluated this program.  
2015: CSSI engineering coordinator held discussions on Calit2Robotics Program about how to use Calit2's resources in Robotics outreach.  
2014: CSSI engineering coordinator helped Calit2 with K-12 robotics outreach at selected schools to encourage students to pursue engineering field.  
2014: CSSI facilitated internships in Calit2 labs to low income high school students at The Preuss School UCSD and Gompers Preparatory Academy.  
2014-present: Rao serves as member of the CSSI Internal Advisory Board.

**Schurgers, Curt, Associate Teaching Professor, Electrical and Computer Engineering**

2019: NSF REU Engineers for Exploration (E4E) REU. CSSI evaluator completed the evaluation of E4E REU for undergraduate engineering students. Co-conducted analyses, co-wrote report, and sent findings to Ryan Kastner, Professor, Computer Science and Engineering and Ramesh Rao, Professor, Electrical and Computer Engineering & Qualcomm Institute and Schurgers.  
2018: NSF REU Engineers for Exploration (E4E) REU. CSSI helped with the evaluation piece for the renewal application.  
2016-2018: CSSI has conducted evaluations of the summer Engineers for Exploration (E4E) REU. CSSI helped with the evaluation piece for the renewal application.  
2018: CSSI liaisons and other K-12 partners have connected with the UC San Diego maker space consortium COLLAB (Collaboration of Like-minded Learners and Builders). COLLAB leadership originated in JSOE and QI (Calit2).

**Shi, Yuanyuan, Assistant Professor, Electrical and Computer Engineering**

2022: UCSD Math Project Director/CSSI staff provided consultation on community engagement/broader impacts for NSF Proposal.

**Tu, Charles. Professor, Electrical and Computer Engineering**

2014-2018: Tu served as member of the CSSI Internal Advisory Board.

**Xie, Pengtao, Assistant Professor, Electrical and Computer Engineering**

2022: Consulted on NSF CAREER proposal.

**Yip, Michael, Assistant Professor, Electrical and Computer Engineering**

2020: CSSI staff designed evaluation plan and provided letter of support for funded grant NSF CAREER:



*Contextually Autonomous Robotic Surgery.* SDSP collaborated with Art Lopez, Sweetwater UHSD, to assist Dr. Yip in developing a program for URM high school students that would engage them in the fields of biology and computer science as career pathways.

2019: NSF EFRI C3 SoRo: Safe Medical Continuum Robots: Sensing, Control and Fabrication. CSSI to provide engagement with the local community and URMs for the broader impact parts of the grant.

2019: NSF CAREER: CSSI to provide engagement with the local community and under-represented minorities for the broader impacts part of the grant.

2016: NSF CAREER: Model-Free Control Frameworks for Continuum Robots. CSSI staff secured San Diego Unified School District letter of commitment; advised/drafted the outreach plan and budget.

#### **Yu, Paul, Professor, Electrical and Computer Engineering**

2022: Consulted on Dr. Yu's project on developing superconductor workforce efforts.

#### **Zhang, Xinyu, Associate Professor, Electrical and Computer Engineering**

2021: CSSI staff provided a letter of support for NSF *Expeditions in Computing proposal Expeditions: Artificial Intelligence of Things (AIoT): The next ML-enabled computing class.*

## **Mechanical and Aerospace Engineering**

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#### **Coimbra, Carlos F., Professor, Chair, Mechanical and Aerospace Engineering**

2014: Part of an NSF Using STEM America Project grant. Collaborated with CSSI staff to provide hands-on science for the Imperial Valley Discovery Zone for Imperial School District high school students.

#### **Delson, Nathan, Associate Teaching Professor, Mechanical and Aerospace Engineering**

2023: Consulted on outreach methods for student organization/UC San Diego en.

2021: CSSI staff supported grant submission, Teaching Fundamental Spatial Reasoning and Sketching Skills to Promote Interest and Future Retention in STEM for Elementary Aged Students.

2017: AIMS Freehand Sketching and Spatial Skills Training Using Touchscreens for 7<sup>th</sup>-12<sup>th</sup> Grades. With **Lelli Van Den Einde, Teaching Professor, Structural Engineering.** CSSI evaluators to assess pilots in local middle or high school classrooms for this one year grant.

2017: Flipped Labs: Hands-on Assignments for Engineering Lecture; JSOE IDEA proposal. With **Veronica Eliasson, Associate Professor, Structural Engineering.** CSSI evaluators asked to partner with PIs in a small pilot to design and assess the efficacy of a program that will add "flipped labs" to existing sophomore-level lecture classes in Engineering. Students in these new classes would be asked to perform hands-on experiments as homework using equipment and materials available in UC San Diego.

2014: CSSI supported student development of an application for tablet computers to improve student spatial visualization skills on their own or with minimal supervision.

#### **DeWald, Jesse, Director, EnVision, Arts and Engineering Maker Studio**

2019: CSSI leadership supported Dewald, the Deans' Offices of Engineering and Social Sciences, and campus advancement in submitting a cross-divisional grant.

2018: CSSI liaisons and other K-12 partners connected with the UC San Diego maker space consortium COLLAB (Collaboration of Like-minded Learners and Builders). COLLAB leadership originated in JSOE and QI.

2017-2018: CSSI Birch Aquarium at Scripps (BAS) liaison, worked with JSOE EnVision Maker Studio for Summer Engineering with EnVision. A multidisciplinary team of 10 undergraduates designed and engineered an interactive science exhibit for BAS.

2015: Vista Unified School District CSSI liaison participated in an EnVision event at UC San Diego (eEngineering awareness for girls). Liaison brought students/parents to learn about UC San Diego StudentTECH summer computer science workshops.

**Frazier, Michael, Assistant Professor, Mechanical and Aerospace Engineering**

2022: CSSI staff supported the submission of grant proposal *CAREER: Pattern Formation and Wave Propagation in Active Metamaterials*.

2022: CSSI Staff provided consultation on NSF CAREER proposal plans and connected with potential K12 student participants.

**Garay, Javier, Professor, Mechanical and Aerospace Engineering**

2015: NSF-PIRE: SOMBRERO (Synthesis of Optical Materials for Bioapplications: Research, Education, Recruitment, and Outreach). CSSI staff is providing evaluation services.

**Ghazinejad, Mazaiar, Assistant Teaching Professor, Mechanical and Aerospace Engineering**

2023: San Diego Science Project Director Design for launch of UCSD Changemaker award. Worked with Dr. Ghazinejad and his undergraduate students to host a Design for Launch workshop for high school Physics teachers from Garfield, Lincoln, and Hoover High Schools in San Diego Unified. This two-day workshop supported teachers with planning how to implement engineering design into their classrooms through phenomena related to a centrifuge.

2022: SDSP Director/CSSI Staff supported the development of the outreach component for grant, Community-Driven Approach to Enhance Participation in STEM Fields (UCSD Changemaker award).

2021: CSSI staff provided consultation on a grant's potential k-12 application. SDSP Director drafted potential projects that could be used as starting points for writing future grants and researched and identified the potential awards that can support the K12 component of the centrifuge project.

**Graeve, Olivia Professor, Mechanical and Aerospace Engineering**

2015-2016 – With **Adam Burgasser, Professor, Physics**

Graeve provided instruction for the California Mathematics & Science Partnership Grant, Cohort 11 Power: Solving Problems through Engineering in the Physical Sciences (POWER). CSSI engineering coordinator provided teacher support.

2016: NSF PIRE: New Generation of Enzymatic Biofuel Cell Materials for body-worn energy harvesting devices. CSSI staff to provide evaluation services.

**Kramer, Boris, Assistant Professor, Mechanical and Aerospace Engineering**

2021: CSSI staff provided consultation for MAE CAREER grant.

2021: CSSI staff provided support for grant submission, CAREER: Goal-Oriented Variable Transformations for Efficient Reduced-Order and Data-Driven Modeling.

**Llewellyn Smith, Stefan, Professor, Mechanical and Aerospace Engineering**

2020: CSSI staff supported proposal RET: *Collaborative Research: Complex Function Theory: Applications and Computations for Waves and Vortices*.

2020: UC San Diego Math Project director supported the grant proposal resubmission: *Research Experiences for Teachers in Engineering and the Environment: Physically Motivated Mathematical Modeling* (resubmission NSF RET).

2020: Multicampus Research Programs and Initiatives (MRPI) Grant. With **Michael Holst Professor, Department of Mathematics; Michael Holst, Professor, Department of Mathematics; Cheryl Peach, Scripps Institute of Oceanography**. Worked on revision of grant for submission.

2019: NSF Research Experiences for teachers in engineering and the environment: Physically Motivated Mathematical Modeling. With **Guershon Harel, Professor, Department of Mathematics**, the grant will combine summer research experience in faculty research groups working at the junction of engineering and environmental issues with pedagogical activities.

2016: NSF CBET: The Dynamics of Buoyant Vortices. CSSI staff consulted with and contributed text to a grant for Llewellyn Smith to support his broad impact/outreach work, which includes developing mathematical understanding (in calculus) through real-world contexts. CSSI staff working with Llewellyn Smith on the Physically Motivated Math Project, funded from this grant, to design a one to two week unit for high school AP Calculus students to experience connections between physics and math after the AP exams. The project will be a collaboration between a high school physics teacher, three calculus teachers, and Llewellyn Smith.

**Morimoto, Tania, Assistant Professor, Mechanical and Aerospace Engineering**

2020: CSSI staff provided evaluation plan and letter of support for grant proposal CAREER: *Extending Human Dexterity Through Hand-Held Continuum Robots*.

2020: NSF CAREER: CSSI leadership consulted with Morimoto about her potential CAREER application.

2020: NSF NRI (National Robotics Initiative). CSSI to provide engagement with the local community colleges and under-represented minorities in K12 for the broader impacts part of the grant.

2018: CSSI Outreach Coordinator introduced CSSI programs and resources for future grant/outreach work. Invited her to present to 50+ computer science teachers about her work at a San Diego Computer Science Teachers Association PD general session.

**Rangamani, Padmini, Associate Professor, Mechanical and Aerospace Engineering**

2023: CSSI staff supported grant submission, MODULUS: Protein Droplets Drive Membrane Bending and Cytoskeletal Organization.

2020: CSSI Evaluator co-developed the evaluation plan, made suggestions for education and outreach plans; and wrote evaluation piece for grant proposal *BII: Institute for Integrative Multiscale Multicellular Dynamics*.

**Saintillan, David, Professor, Mechanical and Aerospace Engineering**

2023: CSSI staff supported grant submission, MODULUS: Protein Droplets Drive Membrane Bending and Cytoskeletal Organization.

2017: NSF/Simons Foundation Center CM3B: Center for Multiscale Mathematics and Mechanobiology of the Brain. CSSI evaluators helped design the Broader Impact/Outreach plan and developed an associated evaluation plan.

**Qi, Huihui, Lecturer**

2023: CSSI staff supported the grant submission, Empowering Engineering Students to Become More Effective and Self-regulated Learners: A Course-integrated Intervention to Promote the Transfer of Learning Skills.

2023: Consulted on existing NSF IUSE grant.

## NanoEngineering

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**Bae, Jinhye, Assistant Professor, NanoEngineering**

2022: CSSI staff supported the submission of grant proposal, Molecular and Topological Structure Design of Bottlebrush Supramolecular Hydrogels with Controllable Multi-stimuli Responsiveness.

2022: CSSI staff supported grant submission, Enabling New Microactuation Materials Through Understanding the Influence of Shear-Dependent Viscosities on Acoustic Field-Driven Assembly of Particles.

2021: CSSI staff supported grant submission, CAREER: Influence of Rheological Properties of Polymeric Fluids on Dynamics of Acoustic Field-Driven Assembly of Particles

**Fainman, Shaya, Distinguished Professor, Electrical and Computer Engineering; Lo, Yu-Hwa, Professor, Electrical and Computer Engineering.**

2018: CSSI staff helped design and execute outreach to K12 students and inclusion of community college students in REU research experiences for the nanoengineering NNCI grant.

2015: NSF UCSD-Nanotechnology Coordinated Infrastructure (U-NNCI). CSSI staff supported outreach to students and REU work.

**Fullerton, Eric E., Professor, NanoEngineering**

2022: Supported the resubmission of IRES: US/France Multidisciplinary Collaboration in Nanoelectronics, Quantum Materials and Next-Generation Computing.

2020: CSSI staff provided support for grant submission *IRES: US/France Multidisciplinary Collaboration in Nanoelectronics and Next-Generation Computing*. CSSI Evaluator co-developed the evaluation plan, budget, and overall program plan.

**Chen, Shaochen, Vice Chair, Professor, NanoEngineering**

2013: NSF Nanotechnology Engineering Research Center (NERC) aka NANO ADAPT grant. CSSI to support K-12 education components. CSSI to provide evaluation.

**Chen, Zheng, Assistant Professor, NanoEngineering**

2021: CSSI staff supported grant submission, FMRG: Eco: Dry Manufacturing of Solid-State Sodium Batteries for Energy Storage at Large Scale.

2021: CSSI staff supported grant submission, Understanding and Designing Wide-Temperature Lithium Metal Batteries.

**Sirbuly, Don, Associate Professor, NanoEngineering**

2021: CSSI staff provided consultation for a NSF BRITE grant.

**Vasquez-Mena, Oscar, Assistant Professor, NanoEngineering**

2021: CSSI staff supported grant submission, Opening Research Paths In Materials and Nanoscale Engineering for Transfer Students Without Research Experience at R1 Universities.

2021: CSSI Outreach Director provided consultation to Dr. Vasquez-Mena on HSI Imperial Valley College + UCSD and Research Paths.

2020: CSSI staff provided letter of support for funded grant CAREER: Multispectral Broadband Photodetectors with Multimaterial Films and Intercalated Graphene Layers as Charge Collectors.

2018: CSSI staff reviewed and commented on submission of NSF Career.

2017-2018: CSSI staff worked with Vasquez on various outreach projects.

**Vecchio, Ken, Professor, NanoEngineering**

2017: NSF MRI (Major Research Instrumentation): CSSI staff wrote broader impact plan for grant to leverage grant for professional development for local chemistry teachers.

**Xu, Sheng, Assistant Professor, NanoEngineering**

2017: NSF CAREER: Towards Multilayered Stretchable Electronics by Overcoming the Dimensional Barrier Using Laser Ablation. CSSI evaluators consulted to help design and develop outreach/education pieces with associated self-evaluations for his CAREER proposal. VUSD liaison provided letter of support.

## Structural Engineering

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**Chen, Jiun-Shyan, Professor, Structural Engineering**

2021: SUHSD provided a letter of support to Dr. Jiun-Shyan Chen and Dr. Ken Loh for *Conference Proposal: Mechanistic Machine Learning and Digital Twins for Computational Science, Engineering and Technology (MMLDT-CSET 2021) Conference*.

**Conte, Joel, Professor, Structural Engineering; Shing, Pui-Shum, Professor, Structural Engineering**

2016: NSF NHERI: (Natural Hazards Engineering Research Infrastructure): Experimental Facility with Large, High Performance, Outdoor Shake Table. CSSI staff was asked to provide support to multiple PIs from JSOE to support their renewal of the "shake table" grant; more specifically, to assist in the evaluation of educational efforts that would accompany the shake table renewal.

**Elgamal, Ahmed-Waeil, Associate Dean, Professor, Structural Engineering**

2016: Supported JSOE faculty in a requested presentation to junior engineering faculty about ways to execute outreach for their grants.

**Hutchinson, Tara, Professor, Structural Engineering**

2016: NSF NRT-IGE: Next-Generation Extreme Events Engineering E3 Trainee. With **Lelli van den Einde, Teaching Professor, Structural Engineering**. CSSI staff to prepare the evaluation budget, write the evaluation section, and provide general feedback on the proposal.

**Kim, Hyonny, Vice-Chair, Professor, Structural Engineering**

2016: Researcher, Office of Naval Research grant - Creating, Scaling and Sustaining NGSS-Aligned, ONR Informed Research in High School Science. Middle School Cohort 1.

**Loh, Ken, Vice Chair, Professor, Structural Engineering**

2021: SUHSD provided a letter of support to Dr. Jiun-Shyan Chen and Dr. Ken Loh for *Conference Proposal: Mechanistic Machine Learning and Digital Twins for Computational Science, Engineering and Technology (MMLDT-CSET 2021) Conference*.

2019: Designing for Safety and Safety by Design (DSSD) REU. Summer Program Evaluations were conducted by CSSI evaluator Co-conducted analyses, co-wrote report, presented findings to Loh.

**Todd, Michael D., Professor, Structural Engineering**

2019: Designing for Safety and Safety by Design (DSSD) REU. Summer Program Evaluations were conducted by CSSI evaluator Co-conducted analyses, co-wrote report, presented findings to Loh and Ken Loh, Vice Chair, Professor, Structural Engineering.

2018: NSF REU: Harnessing Internet-of-Things Technologies and Citizen Scientists for Disaster Preparedness, Response, and Recovery. CSSI evaluators will prepare assessment tools and gain IRB support for the proposed work in the months preceding the program and will provide formative feedback to the PI as needed.

**Van Den Einde, Lelli, Teaching Professor, Structural Engineering**

2023: San Diego Science Project Director consulted with Lelli Van Den Einde and Nathan Delson to consult on the educational activities for NSF AISL grant, Leveling the Playing Field for Underrepresented Minorities in STEM: Spatial Visualization Training in Maker Experiences for 8-11 Year Olds.

2021: CSSI staff supported grant submission, Teaching Fundamental Spatial Reasoning and Sketching Skills to Promote Interest and Future Retention in STEM for Elementary Aged Students.

2019: NSF DRK12: Developing a Sketching Platform to Interpret Students Conceptions of Fractions and Provide Meaningful Feedback to Promote Productive Struggle. CSSI math leadership helped co-write this grant. CSSI evaluator helped research math/STEM assessment tools and wrote a letter of support. 2019: San Diego Unified School District, The Power of Pathways and Partnerships Conference. CSSI leadership invited Van Den Einde to demonstrate the shake table for a group of national K-12 school administrators at a conference Deep Dive session.

2018: CREATE/EDS Conference. Provided tabling for Van Den Einde to showcase the shake table to attending K-12 teachers.

2017: AIMS Freehand Sketching and Spatial Skills Training Using Touchscreens for 7<sup>th</sup>-12<sup>th</sup> Grades. With Nate Delson. CSSI provided evaluation services.

2016-2018: Structural engineering outreach - CSSI helped Van Den Einde expand her seismic structural engineering outreach to regional low income schools. With NHERI grant, CSSI supported Van De Einde by helping arrange for Chula Vista and Vista elementary schools to visit the shake table.

2013: NSF IUSE: Spatial Visualization and Sketching Instruction using Touch Screen Interfaces. CSSI evaluators supported grant application for iPad app to improve spatial visualization skills.

## IDEA Center

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### **Trahan, Lisa, Director of Strategic Initiatives and Assessment**

2018: CSSI evaluators meet to share CSSI services and evaluation work, learn about IDEA Center plans, and help orient Trahan to campus entities and programs.

2015: CSSI coordinator with consulted with then-Director Michelle Ferrez to encourage moving student information group events to earlier in the school year to increase contact with K-12 school leaders/principals.

2014: CSSI leadership supported IDEA Center considerations for future planning and staffing.

## The Design Lab

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### **Morris, Michele L., Associate Director, The Design Lab; Co-Founder, Center for Design-Driven Transformation**

2015: CSSI staff connected with design lab students **Albert Lin** and **Derek Lomas** via Morris about working with CSSI, with a focus on digital technology and gaming as a means for learning.

## UC San Diego Jacobs School of Engineering Student Supports

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The CSSI works with the **student organizations listed below** on numerous on- and off-campus STEM outreach events including: 52 Weeks of Science, Barrio Logan Science and Art Expo, Comienza con un Sueño, Future Faces of STEM, High Tech High Fair, Rady's LAUNCHPAD, SciComm Incubator, Science Nights at Sherman Elementary, STEMengineering Day, Stemming 4 Success, Students With Academic Goals, Super STEM Saturday and Vista Unified School District STEM FEST.

### **Center for Energy Research, UC San Diego (CERS)**

2017-present: CSSI invited UC San Diego's CERS to participate in various outreach events, including STEMengineering Day.

### **Computer Science and Engineering Society, UC San Diego (CES)**

2017-present: UC San Diego's ECE participated in various student outreach events, including Barrio Logan Science & Art Expo, Future Faces of STEM, STEMengineering Day and Comienza con un Sueño in 2018-19.

### **Electrical Computer Engineering Undergraduate Student Council, UC San Diego (ECE)**

2017-present: UC San Diego's ECE participated in various student outreach events, including Barrio Logan Science & Art Expo, Future Faces of STEM, STEMengineering Day and Comienza con un Sueño in 2018-19. Supported the 2020 Hackathon.

### **National Society of Black Engineers, UC San Diego (NSBE)**

2020: CSSI Outreach staff assisted with coordination of a larger scale event on campus.

2019: Participates in Comienza con un Sueño annual conferences and other STEM events.

## Project in a Box

2019: CSSI staff collaborated with Project in a Box group and Dr. Saharnaz Baghdadchi to coordinate Technology Training Institute in summer.

#### **Triton Engineering Student Council**

2020: CSSI supported TESC for the 2020 ENSpire event. Helped provide guidance and connected with UC San Diego TRIO and EAOP partner high schools.

2019: Provided event guidance to Triton Engineering Student Council for event in February 2019.

2017: CSSI supported Triton Engineering Student Council (TESC) to execute SPLASH@UCSD, an informal learning event like MIT and Stanford's, where UC San Diego students teach classes to high school students; shared information with district partners to disseminate to students.

2016: CSSI staff attended yearlong, ongoing meetings to advise on planning, implementation and participant recruitment of high school students from diverse communities for Splash event.

#### **UC San Diego Society for Advancement of Hispanics/Chicanos and Native Americans in Science (SACNAS)**

2020: CSSI outreach coordinator founded the UC San Diego SACNAS chapter.

#### **UC San Diego Society of Hispanic Professional Engineers (SHPE)**

2014-present: Coordinated inclusion in various STEM outreach events (STEM Outreach expos, Dads and Daughters event); assisted with materials for outreach and community engagement.

#### **UC San Diego Society of Women Engineers**

2016: Assisted SWE volunteers with STEM in Your Backyard, part of 52 Weeks of Science.

#### **Students With Academic Goals**

2018: CSSI outreach coordinator served as speaker and workshop presenter to 100 high school students for Mechanical and Aerospace Engineering.

## **Division of Social Sciences**

### **Division of Social Sciences Supports (*\*CSSI supports only are listed here*)**

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#### **Office of the Dean of Social Sciences**

2020: CSSI staff worked with Social Sciences Dean's office to craft new Creating Climate Champions project to support curriculum development and curation for regional K12 climate education.

#### **Department of Cognitive Science**

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**Minces, Victor, Assistant Project Scientist, Department of Cognitive Science**

2022: Consulted on evaluation design.

2022: CSSI staff supported teacher professional development for Science of Music grant. This included consulting on the Listening to Waves curriculum being developed from this research grant.

2020: CREATE staff supported Dr. Victor Minces in funded NSF proposal *Increasing Students' Interest in STEM Through the Science of Music*. Additionally, CSSI Liaison provided a letter of support.

2020: NSF -DRL – ITEST: SEI: Scaling Up. Increasing Students' Interest in STEM through the Science of Music. CSSI leadership helped with resubmission of the grant. CSSI outreach leadership helped Minces identify partners in Austin (students) to support him at SXSW EDU conference.

2019: NSF -DRL – ITEST: SEI: Scaling Up. Increasing Students' Interest in STEM through the Science of Music. CSSI leadership worked with Minces to submit a grant supporting expansion of the Connecting STEM to Music work.

2017: ITEST NSF: Connecting STEM to Music and the Physics of Sound Waves. CSSI consulted and advised on this grant on the physics of sound and music.

**Rangel, Lara M., Assistant Professor, Department of Cognitive Science**

2020: NSF CAREER: CSSI leadership spoke with Rangel about her potential CAREER application.

**Rossano, Federico, Assistant Professor, Department of Cognitive Science**

2019: NSF CAREER: CSSI evaluator spoke with Rossano about his potential CAREER application.

## **Department of Communication**

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**Booker, Angela, Associate Professor, Department of Communication; Vasquez, Olga, Associate Professor Emeritus, Department of Communication**

2015: CSSI leadership supported UC San Diego Department of Communication professors along with **Shana Cohen, Assistant Professor, and Alison Wishard Guerra, Associate Professor, Department of Education Studies** in considering next grant application to UC Links (UCOP funding source for university community collaborative research courses).

## **Department of Economics**

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**Betts, Julian, Professor, Department of Economics**

2019: CSSI partnering with Betts in U.S. Office of Elementary and Secondary Education (OESE): Education Innovation and Research (EIR) Program: Computer Science for English Learners (CSforEL): Increasing Participation and Achievement in Advanced Placement Computer Science Principles (AP CSP) for English Learners. CSSI leadership invited Betts and SanDERA (including two of SanDERA's research associates) to serve as the quantitative evaluator in the four-year grant with Megan Hopkins, Associate Professor, Department of Education Studies, Elizabeth Simon, Teaching Professor, Department of Education Studies, Deborah Costa-Hernandez, State Director, California Reading and Literature Project, UC San Diego CREATE, and teams of leaders from UC Irvine and UC Santa Cruz as program designers in the grant with the Computer Science Teachers Association.

2018: CSSI toured, with Betts and Kira Vu, Changing the Odds grant, the Carpentry Center via Career Technical Education at San Diego Unified School District.

## Department of Education Studies

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### **Bresser, Rusty, Lecturer/Supervisor of Elementary Education, Department of Education Studies**

2019: CSSI staff invited Bresser to serve on advisory committee for the new UC San Diego Math Project  
2017-2018: CSSI staff connected Bresser to the San Diego Math Network for a yearlong series of elementary to middle school mathematics professional development.

### **Clarke, Sherice, Assistant Professor, Department of Education Studies**

2022: CSSI staff, Nan Renner, hosted Dr. Clarke's EDS 115 Cognitive Design course students at the Birch Aquarium.

2021: CSSI Liaison provided outreach component development for grant submission, NSF CAREER: Learning to Leverage the Brilliance of BIPOC Minds: Designing Teacher Professional Learning to Embody Anti-Racist Pedagogy in Science.

2020: CSSI staff supported Bending the Curve, Closing the Gap with **Fonna Forman, Political Science**, PI and Sherice Clark Co-PI.

2019: New Schools Venture Fund: CSSI leadership helped Clarke craft a pre-proposal for the EF + Math Program (part of the New Schools Venture Fund), soliciting work that would apply Executive Function research to math learning in K-12.

2017: CSSI leadership connected Clarke to Vista Unified School District CSSI liaison to include in her Talkways/ClassInsight grant; supported related IRB processes.

### **Cohen, Shana, Assistant Professor, Department of Education Studies**

2017: Energy Synergy Alliance. CSSI evaluator consulted with Laura Kohn (P3SD) and Cohen to talk about possible ways the three groups might collaborate in the future, with the goal of continuing to advocate for and support pre-school education in San Diego County.

2015: CSSI leadership supported Cohen, **Alison Wishard Guerra, Associate Professor, Department of Education Studies** and **Angela Booker, Associate Professor**, and **Olga Vasquez, Associate Professor Emeritus, Department of Communication**, in considering next grant application to UC Links (UCOP funding source for university-community collaborative research courses).

### **Contreras, Frances, Associate Vice Chancellor, Faculty Recruitment and Retention; Associate Professor, Department of Education Studies**

2018: CSSI leadership introduced Contreras and members of her team to Sweetwater Union HSD to explore partner possibilities.

2015: CSSI leadership consulted with Contreras to explore links to studies of URMs in higher ed STEM.

2014-present: Contreras has served as a member of the CSSI Internal Advisory Board.

### **Daly, Alan J., Professor, Department of Education Studies**

2018: Leadership Project: High School Principal Networks. CSSI leadership supported a connection between Alan Daly to Superintendent Karen Janney, Sweetwater Union High School District, for his newly funded Gates Foundation Leadership Project to study high school principal networks.

2015-2019: Collaboration supporting Daly and postdocs on network analysis for the San Diego Math Network.

2015: Closing the Digital Divide. CSSI leadership participated in a conference on closing the digital divide with Daly, Vista Unified School District and Chula Vista Elementary School District superintendents, Qualcomm, and UC San Diego Alumni.

**Datnow, Amanda, Associate Dean, Division of Social Sciences; Professor, Department of Education Studies**

2015: CSSI provided Datnow with support conducting interviews with graduating Preuss seniors about their college application and choice process.

2014: College Match. CSSI Staff worked with Datnow to conduct an ongoing study of Preuss students' college choice process for the class of 2015; a pilot study was conducted by CSSI and Datnow with the class of 2014.

2014-present: Datnow serves as a member of the CSSI Internal Advisory Board.

**Eguchi, Amy, Lecturer, Assistant Teaching Professor, Department of Education Studies**

2022: CSSI Research Evaluation staff co-developed a proposal k-6 computer science content for future grant submission. CSSI staff supported the development of the implementation plan, timeline, and logic model.

2022: CSSI Liaison supported design of outreach component for Potential NSF Grant Project Partnership - AI2Rescue. Liaison consulted on how to incorporate computer science and artificial intelligence literacies into existing curricular lessons.

2021: CSSI Evaluator advised on evaluation plan and wrote letter of support for grant CS-BAITEs (Bytes of AI-Themed Education for Elementary Schools).

2021: CSSI staff supported submission of Google grant.

2020: CSSI staff supported RET NSF Grant "Pathways to AI Teacher Summer Program" by gathering letters of support from local districts and SDCOE.

2020: CSSI leadership consulted with Eguchi to discuss future collaborations.

**Halter, Christopher, Teaching Professor, Department of Education Studies**

2020: CSSI staff supported grant submission *MLR Impact Study: Math Language Routines Impact on Students' Communicating Mathematical Reasoning*.

2019: NSF Noyce: San Diego Enhanced Mathematics Initiative Master Teaching Fellowship. With **Jeffrey Rabin, Professor, Department of Mathematics**, CSSI mathematics leadership to support research of teacher professional development.

2013-2015: NSF Noyce: UC San Diego Education Studies Master Teacher Fellowship. CSSI staff to provide evaluation support for the grant.

2015: FIPSE: Centers of Excellence for Veteran Student Success. CSSI staff worked with the Student Veterans Center on a FIPSE proposal aimed at support services for university student veterans. CSSI staff to provide research/evaluation.

**Heinzman, Erica, Lecturer/Supervisor of Secondary Mathematics, Department of Education Studies**

2019-2020: UC San Diego Mathematics Project. Serves as Advisory Committee member.

2019: Yankelovich Center grant: African-American Achievement Summit Follow-Up: Examining Opportunity Gaps for San Diego Unified School District African-American Students in Fourth-Year Mathematics. CSSI leadership working with Heinzman and Kirk Rogers (EDS Graduate Student) on the grant.

2018: With CSSI staff, arranged professional development workshop for the San Diego Math Network.  
2017: Awarded an Igniter Grant from a CSSI-supported one-day symposium on the high school to college mathematics transition. With award funds, Heinzman hosted a one-day workshop for local district administrators showcasing five, four-year math projects funded by the California Department of Education.

**Holtzman, Caren, Lecturer in Elementary Education, Department of Education Studies**

2017-2018: CSSI staff connected Holtzman to the San Diego Math Network for a yearlong series of elementary to middle school mathematics professional development.

**Hopkins, Megan, Associate Professor, Department of Education Studies**

2019: U.S. Office of Elementary and Secondary Education (OESE): Education Innovation and Research (EIR) Program: Computer Science for English Learners (CSforEL): Increasing Participation and Achievement in Advanced Placement Computer Science Principles (AP CSP) for English Learners. CSSI leadership tapped Hopkins and graduate student Hayley Weddle (including two of SanDERA's research associates) as a researcher and program designer in the four year grant with the Computer Science Teachers Association. With **Julian Betts, Professor, Department of Economics, Elizabeth Simon, Teaching Professor, Department of Education Studies, Deborah Costa-Hernandez, State Director, California Reading and Literature Project, UC San Diego CREATE**, and teams of leaders from UC Irvine and UC Santa Cruz as program designers in the grant with the Computer Science Teachers Association.

**Simon, Elizabeth, Teaching Professor, Department of Education Studies**

2020: U.S. Department of Education: Coding our Future. CSSI leadership and Simon working with San Diego Unified School District on a contract for an awarded computer science grant to support creation of curriculum units, professional development, and assessments for 3rd-8th grade computer science across 50+ elementary and middle schools in San Diego Unified School District.

2019: U.S. Office of Elementary and Secondary Education (OESE): Education Innovation and Research (EIR) Program: Computer Science for English Learners (CSforEL): Increasing Participation and Achievement in Advanced Placement Computer Science Principles (AP CSP) for English

Learners. CSSI leadership invited Simon as a program designer for the four year grant with the Computer Science Teachers Association. With **Julian Betts, Professor, Department of Economics, Megan Hopkins, Associate Professor, Department of Education Studies, Deborah Costa-Hernandez, State Director, California Reading and Literature Project, UC San Diego CREATE**, and teams of leaders from UC Irvine and UC Santa Cruz as program designers in the grant with the Computer Science Teachers Association.

2019: NSF CNS - STEM + Computing (STEM+C): CS-LISTEN: Computer Science Learning and Inquiring with Students Through Equity Networks. CSSI leadership worked with Simon to write a grant to professionally develop teams of students at eight high schools per year to broaden participation in computer science via the use of youth voice/student research and PDSA cycles.

2018: NSF Research Practice Partnership for Computer Science. CSSI coordinator assembled a team to attend a research-practice partnership workshop in Seattle at the end of October. CSSI leadership secured outside NSF funding via the online application for a team of five to attend.

2018: Computer Science Teachers Association (CSTA) Launch. With Simon, CSSI helped relaunch the CSTA San Diego chapter.

2017: NSF: Enabling CS for All Teachers: An RPP-Led Computing Educator Collaboratory. Grant seeks to support all teachers in successfully teaching computer science, even in the face of changing standards,

programming languages, and devices. CSSI connected Sweetwater Union High School District and Vista Unified School District to the grant.

2017: NSF DD: Computer Science for Middle School (CS for MS). Expands CS in middle schools to ignite interest and establish pathways for students to pursue high school CS coursework. CSSI facilitating prior NSF investments in CS curriculum (Bootstrap), research on educational ecosystems (CS-CaVE, ECS/ACCESS), and high school CS teacher training (CompPASS). Grant brings together university and school district partners to develop, test, and refine implementation roadmaps for CS equity in middle school.

2013: NSF-IUSE: Teaching Programming: An Online Interactive Worked Example Approach. CSSI supported grant application for creating and testing the efficacy of an online CS Principles text/course with guided examples.

**Wishard Guerra, Alison, Associate Professor, Department of Education Studies**

2015: CSSI leadership supported Wishard Guerra, Shana Cohen, Assistant Professor, Department of Education Studies, **Angela Booker, Associate Professor**, and **Olga Vasquez, Associate Professor Emeritus, Department of Communication**, in considering next grant application to UC Links (UCOP funding source for university-community collaborative research courses).

**Department of Education Studies Student Supports** *(only CSSI supports listed here)*

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**Graduate Students**

2020: CSSI Outreach Director consulted with James Crawford (graduate student) on Math & Literacy support for SD region's Black students; overall support to new outreach effort "Black Students Matter."  
2019-2021: CSSI leaders worked with Graduate Division to support EDS doctoral student roles assisting with CSSI and campus projects, and in total employed nearly a dozen doctoral students in community-focused education projects.

**San Diego Science Project**

2017: San Diego Science Project Director presented to Department of Education Studies graduating teachers about the Science Project and supports available when they enter the classroom.

**Price Scholars Math Program**

2014: CREATE helped Price Philanthropies and San Diego City College pilot accelerated diagnostic prealgebra and Algebra courses coursework necessary for transfer to UC. Secured Price funding (Year 1) and Yankelovich Center funding (Year 2) for the expansion of the program to larger numbers of students and evaluation. In addition, the program provided support for an EDS graduate studies researcher to gain experience conducting research and completing her dissertation.

## Department of Linguistics

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### **Rose, Sharon, Professor, Department of Linguistics**

2021: CSSI Staff supported grant submission to Title VI Department of Education National Resource Centers Program.

## Department of Political Science

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### **Forman, Fonna, Associate Professor, Department of Political Science**

2023: CSSI staff supported *UCOP Climate Action Research: Bending the Curve: Climate Education for All*, with Nan Renner, Alec Barron, and more, CSSI, Co-PIs.

2020: CSSI staff helped to submit grant *Bending the Curve, Closing the Gap* with Sherice Clarke, Education Studies, and Nan Renner, CSSI, Co-PIs.

2019-20: CSSI staff supported Forman and **Veerabhadran Ramanathan, Professor, Scripps Institution of Oceanography**, in collective campus grant to MacArthur Foundation for campus and regional collaboration re climate crisis.

2019: NSF Advancing Informal STEM Learning (AISL): Advancing Informal Learning with Science Academies. With **Hugh Mehan, Professor Emeritus, Department of Sociology, former UC San Diego CREATE Director**. CSSI evaluator wrote letter of support and will serve on advisory board if grant is funded. As-needed support to partnership with Groundwork/Earthlab community org.

### **Houston, Alan, Former Provost, Eleanor Roosevelt College, Professor, Department of Political Science**

2013-present: CREATE/ERC Math Tutor Corps. CSSI staff approached Houston to help develop and support this new college-based course for undergraduates as tutors for Lincoln High School algebra students. Experienced math teachers taught undergraduates how to be effective tutors. Tutor and counselor recruitment and support, organizing, supporting and troubleshooting including assisting with recordkeeping and transportation.

## Department of Psychology

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**Fan, Judy, Professor, Department of Psychology**

2021: CSSI staff supported submission of Google Grant.

**Heyman, Gail, Professor, Department of Psychology**

2021: CSSI Research Evaluation staff provided consultation to help them design and develop a research plan for a study of implicit bias in kindergarten-aged children. This included co-writing the research plan for a Spencer Grant proposal.

## **Department of Sociology**

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**Binder, Amy, Professor, Department of Sociology**

2019: CSSI Outreach coordinated a panel for Binder's SOC 110 class to discuss Qualitative Research in Educational Settings.

2017: Education Initiative, Provosts; CSSI leadership supported Sociology class placement in education sites for field work in San Diego County.

2015: CSSI evaluator efforts included design and implementation of the FYI evaluation with funding from Barbara Sawrey.

2014-2015: Supported Sociology 110 students to secure placements to work in partner schools (Lincoln High School, Gompers Preparatory Academy) and Community Field Stations (Earth Lab) to learn qualitative data collection/observation techniques while providing service to high-need schools.

**Martin, Isaac, Professor, Chair, Department of Sociology**

2019: Parcel Tax Initiative for Schools. CSSI leader partners in effort to forward a parcel tax to fund teacher professional development in San Diego County.

2018: CSSI staff to serve on a panel regarding impact of taxation on K-12 schooling in CA. Invited to participate in Democracy Forum about budgets and K-12 schools in San Diego.

**Sutton, April, Assistant Professor, Department of Sociology**

2020: NSF CAREER: CSSI leadership provided consultation on NSF CAREER grant proposal.

## **Yankelovich Center for Social Science Research**

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**Hajnal, Zoltan, Professor, Department of Political Science; Director, Yankelovich Center for Social Science Research**

2020: CSSI/CREATE leadership consulted on various models for community-focused research.

**Skrentny, John, Professor, Department of Sociology; Director, Yankelovich Center for Social Science Research**

2018 – current: CSSI leadership invited to serve on the Yankelovich Center Advisory Board.

2017: CSSI leadership planned and enacted qualitative and quantitative evaluation of Price Scholars Program with Skrentny and **Minh Phan Ho, PhD Student, UCLA Social Research Methodology.**

Through Skrentny, CSSI leadership consulted with national organizers for the San Diego Scholars Network, a group designed to spread policy ideas to larger policymaking audiences.

#### **Fourth-Year Math for African American Students grant**

2019: Yankelovich Center grant: African-American Achievement Summit Follow-Up: Examining Opportunity Gaps for San Diego Unified School District African-American Students in Fourth-Year Mathematics. CSSI leadership working with **Erica Heinzman, Lecturer/Supervisor of Secondary Mathematics, Department of Education Studies**, and Kirk Rogers (EDS Graduate Student) on the grant. 2018: Supporting Department of Education Studies **Ph.D. Student Kirk Rogers** in Yankelovich Center grant on fourth year math for African American students in San Diego Unified School District.

#### **Additional College-Based Student Supports (CSSI only listed here)**

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##### **College Academic Mentor Program (CAMP)**

2014-2018: CREATE helped EAOP and Muir College create a new course now hosted in the Department of Education Studies, that trained 75 UC San Diego undergraduates supported regional high school counselors (regional ratio counselor-student: 1:600).

##### **CREATE/Eleanor Roosevelt College Math Tutor Corps**

2013-present: CREATE developed and helps run this college-based course for undergraduates as tutors for Lincoln High School algebra students. Experienced math teachers teach undergraduates how to be effective tutors. CSSI oversees tutor and counselor recruitment and support, organizing, supporting and troubleshooting, assisting with recordkeeping and transportation.

##### **CREATE/Thurgood Marshall College School Partnership Program**

2013-present: The CREATE-supported course in Thurgood Marshall College provides volunteer/intern service at The Preuss School at UCSD and Gompers Preparatory Academy.

##### **First Year Experience**

2014- 2015, 2017: **Supported Sociology 110 students** to secure placements to work in partner schools (Lincoln, Gompers) and Community Field Stations (Earth Lab) to learn qualitative data collection/observation techniques while providing service to high-need schools.

## **Scripps Institution of Oceanography**

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##### **Alford, Matthew, Professor, Marine Physical Laboratory, Scripps Institution of Oceanography**

2017: Researcher, Creating, Scaling and Sustaining NGSS-Aligned, ONR Informed Research in High School Science grant, Cohort 2.

##### **Allen, Eric, Professor, Scripps Institution of Oceanography**

2022: CSSI Staff provided consultation on a broader impacts plan on grant with Alvaro Munoz Plominsky.  
2022: CSSI staff provided consultation on different approaches for Outreach and Broader Impacts



Proposals for Microbial Culturomics Facility - Expanding Microbiome Research Throughout Marine Systems and Non-canonical Models.

**Aluwihare, Lihini, Professor, Geosciences Research Division, Scripps Institution of Oceanography**

2018: UC Multi-Campus Research Programs and Initiatives: Past the Tipping Point? Ocean Oxygen Loss Along the California Coast. CSSI/CREATE staff provided letter of commitment for this grant. Grant proposes to work with CSSI and Birch Aquarium at Scripps to leverage long term environmental datasets publicly available through UC San Diego and UC Berkeley to develop lesson plans with middle-school teachers in underserved communities.

2017: Researcher, Creating, Scaling and Sustaining NGSS-Aligned, ONR Informed Research in High School Science grant, Cohort 3.

**Arnold, Emily, Manager of School Programs, Birch Aquarium, Scripps Institution of Oceanography**

2020: Summer Institute collaboration with San Diego Science Project (CSSI staff), San Diego County Office of Education and NOAA to include a lesson study with a fall teach day. Due to COVID-19, a face-to-face and an online version is planned.

**Barbeau, Katherine, Professor, Geosciences Research Division, Scripps Institution of Oceanography**

2017: Researcher, Creating, Scaling and Sustaining NGSS-Aligned, ONR Informed Research in High School Science grant, Cohort 3.

**Baumann-Pickering, Simone, Associate Researcher, Scripps Institution of Oceanography**

2023: San Diego Science Project director consulted with Simone Baumann-Pickering to consult on the design of educational activities for a future NSF proposal.

2016: Researcher, Creating, Scaling and Sustaining NGSS-Aligned, ONR Informed Research in High School Science grant, Cohort 1.

**Carter, Melissa, Info System Analyst, Integrative Oceanography Division**

2023: CSSI staff supported Broader Impacts.

**Deane, Grant, Research Oceanographer, Marine Physical Laboratory, Scripps Institution of Oceanography**

2017: Researcher, Creating, Scaling and Sustaining NGSS-Aligned, ONR Informed Research in High School Science grant, Cohort 2.

**Declat-Perez, Mariela, Graduate Student, Scripps Institution of Oceanography**

2022: CSSI staff provided a consultation for on education outreach component for the NSF Dissertation Improvement Grant focused on archeology, resilience and adaptation to climate change.

**Decima, Moira, Assistant Professor, Scripps Institution of Oceanography**

2023: CSSI staff supported Broader Impacts.

**Diggs, Stephen C., Shipboard Technical Support, Scripps Institution of Oceanography**

2022: CSSI staff supported letter of interest for grant, Observing Earth Systems with Visual Data to Collaborate on Development of Curriculum Resources for the Climate Change and Environmental Justice Project, organized by Ten Strands.

**Driscoll, Neal, Professor, Geosciences Research Division, Scripps Institution of Oceanography**

2017: Researcher, Creating, Scaling and Sustaining NGSS-Aligned, ONR Informed Research in High School Science grant, Cohort 2.

2016: Researcher, Creating, Scaling and Sustaining NGSS-Aligned, ONR Informed Research in High School Science grant, Middle School Cohort 1; High School Cohort 1 and 3.

**Eddebbar, Yassir, Postdoctoral Scholar, Integrative Oceanography Division, Scripps Institution of Oceanography**

2023: San Diego Science Project director, Alec Barron and CREATE Birch Aquarium liaison Nan Renner consulted on Broader Impacts design on educational activities for a California Climate Action Grant.

2018-2019: CSSI Science Project Director contact Eddebbar to present his research on oxygen depletion in the ocean and its connections to global warming and human contributions to this phenomenon. Local middle school teachers recruited for the lesson study.

**Fine, Elizabeth, Postdoctoral Scholar, Climate, Atmospheric Sciences, and Physical Oceanography, Scripps Institution for Oceanography**

2023: CSSI staff consulted on Broader Impacts.

2022: CSSI staff provided consultation for Arctic Chipod Microstructure exhibition.

**Giddings, Sarah N., Assistant Professor, Scripps Institution of Oceanography**

2023: CSSI staff supported grant submission, Approaching Urban Coastal Environmental Literacy Through a Science-inspired Art Exhibition and a Community-science Tool

2020: SDSP Director/CSSI staff provided a consultation to Dr. Giddings.

2019: NSF CAREER: The Relative Importance of Remote Oceanic Forcing on Estuarine Exchange Flow Exchange Flow Across a Broad Parameter Space - Numerical Analysis Integrated with Visualization & Education. CSSI to provide evaluation.

2018: NSF CAREER: The Relative Importance of Remote Oceanic Forcing on Estuarine Exchange Flow Exchange Flow Across a Broad Parameter Space. Grant to investigate the relative role of remote oceanic forcing mechanisms impacting estuarine simulations and semi-idealized simulations. PI to collaborate closely with CSSI and the San Diego Science Project. CSSI evaluator to provide evaluation.

**Gilbert, Jack, Professor, Scripps Institution of Oceanography; Department of Pediatrics, UC San Diego School of Medicine**

2020: NSF-IGE (Innovation in Graduate Education): Building a Low-Cost Experiential Learning Program to Improve Graduate Student Professional Development. With **Mary Buschmann, Scientific Writer, Department of Pediatrics, UC San Diego School of Medicine**. CSSI evaluator designed an evaluation plan, budget, and justification.

**Gilroy, Angelica Rodriguez, Graduate Student Researcher, Scripps Institution of Oceanography**

2017: Researcher, Creating, Scaling and Sustaining NGSS-Aligned, ONR Informed Research in High School Science grant, Cohort 3.

**D'alpoim Guedes, Jade A., Associate Professor, Scripps Institution of Oceanography**

2021: CSSI Staff supported grant submission to Title VI Department of Education National Resource Centers Program.

**Holmes, James, Doctoral Student, Driscoll Lab, Geosciences Research Division, Scripps Institution of Oceanography**

2017: Researcher, Creating, Scaling and Sustaining NGSS-Aligned, ONR Informed Research in High School Science grant, Cohort 3.

**Jaffe, Jules, Research Oceanographer, Marine Physical Laboratory, Scripps Institution of Oceanography**

2021: CSSI leadership provided letter of support for grant *Development of a Self-localizing Swarm of Underwater Robots*

2017: Participated as researcher in Creating, Scaling and Sustaining NGSS-Aligned, ONR Informed Research in High School Science grant, Cohorts 1 and 2.

**Latz, Michael, Research Biologist Emeritus, Marine Biology Research Division, Scripps Institution of Oceanography**

2018: CSSI leadership with Latz is supporting Jay Cohen-Schlossberg connected through Latz. Cohen-Schlossberg is a Baltimore-based artist who creates social justice murals. Connected Cohen to Extension/Ed Abeyta and with The Preuss School at UCSD for a service effort based on science/climate theme with Latz's help.

2017: Researcher, Creating, Scaling and Sustaining NGSS-Aligned, ONR Informed Research in High School Science grant, Cohorts 1 and 3.

**La Valle, Florybeth, Postdoctoral Researcher, Scripps Institution of Oceanography**

2020: SDSP Director/CSSI staff provided a consultation.

**Levin, Lisa, Professor, Researcher, Scripps Institution of Oceanography**

2018: NSF OCE: Collaborative Research: Structure, Function and Evolution of Authigenic, Methane-Derived Carbonate Ecosystems. CSSI Science Project Director worked with Levin and **Greg Rouse, Professor, Scripps Institution of Oceanography**, to develop an NSF-funded high school science lesson using a modified lesson study model based on Levin and Rouse's findings.

**Lubin, Dan, Researcher, Climate Atmospheric Science/Physical Oceanography, Scripps Institution of Oceanography**

2016: Researcher, Creating, Scaling and Sustaining NGSS-Aligned, ONR Informed Research in High School Science grant, Middle School Cohort 1.

**Leinen, Margaret, Vice Chancellor, Scripps Institution of Oceanography**

2021: CSSI staff provided support for grant submission, D-ENTERPRISE: Diversifying & Engaging the Navy Through Technical Education & Recruitment Partnerships for Research Innovations in Science & Engineering.

**Merrifield, Mark, Professor, Scripps Institution of Oceanography**

2021: CSSI Staff supported grant submission, *Coastlines and People: Heat Waves in the Southern California Coastal Zone: Their Oceanic and Atmospheric Drivers, Human Health Impacts, and Sustainable Adaptation*.

**Morzfeld, Mattiism, Associate Professor, Institute of Geophysics and Planetary Physics, Scripps Institution of Oceanography**

2021: UCSD Math Project/CSSI math leadership provided a letter of support for grant proposal Ensemble Samplers for the Efficient Solution of Trans-dimensional Bayesian Inference Problems in the Earth Sciences.

**Munoz Plominsky, Alvaro A., Staff Research Associate, Marine Biology Research Division, Scripps Institution of Oceanography**

2022: CSSI Staff provided consultation on broader impacts plan.

**Peach, Cheryl, Director, Scripps Educational Alliances, Scripps Institution of Oceanography**

2022: CSSI staff provided consultation on the implementation of professional learning experiences for teachers for Cooperative Institute for Marine Ecosystems and Climate (CIMEC).

2022: CSSI staff supported letter of interest for grant, Observing Earth Systems with Visual Data to Collaborate on Development of Curriculum Resources for the Climate Change and Environmental Justice Project, organized by Ten Strands.

2022: CSSI Staff co-developed grant submission, Scripps Ocean and Atmosphere Research Simulator (SOARS) outreach and education proposal.

2021: CSSI Staff supported grant submission, Coastlines and People: Heat Waves in the Southern California Coastal Zone: Their Oceanic and Atmospheric Drivers, Human Health Impacts, and Sustainable Adaptation.

2021: CSSI staff provided support for grant submission, D-ENTERPRISE: Diversifying & Engaging the Navy Through Technical Education & Recruitment Partnerships for Research Innovations in Science & Engineering.

2021: CSSI Evaluator supported in conceptualizing an evaluation plan for a new DoD proposal (solicited) to work with partner institutions of oceanography and HBCUs across the country to increase diversity in Navy career pathways.

2021: CSSI staff supported recruitment for Explore Ocean Warming Teacher Program.

2020: Multicampus Research Programs and Initiatives (MRPI) Grant. With Michael Holst Professor, Department of Mathematics; Guershon Harel, Professor, Department of Mathematics; **Stefan Llewellyn Smith, Professor, Mechanical and Aerospace Engineering**. Worked on revision of grant for submission. NSF-URoL MTM 1: (Understanding the Rules of Life: Microbiome Theory and Mechanisms): Elucidating a Genome Size Rule for Microbiome Maintenance of Host Benefits Under Saline Stress. CSSI evaluator designed evaluation plan for the broader impact section and provided a letter of support.

2018: Deep Sea Lesson Study, Birch Aquarium. CSSI Science Project Director connected SIO researchers Levin and Greg Rouse to CSSI Science Project Director to co-develop an NSF-funded high school science lesson using a modified lesson study model.

2018: Job-embedded Naval Experiences in STEM (JONES) ONR grant. A three-year effort to link ONR-funded research content and practices, and exposure to Naval STEM careers with San Diego area high schools.

2018: Office of Naval Research (ONR) Wave Physics, STEM Learning and Careers grant.

Institute for Museum and Library Services (IMLS) Design for Diversity, Inclusion, and Youth Leadership. Grant to create a working group of Chancellor's Associates Scholars and Birch aquarium staff to articulate design principles, strategies, and practices. Through specific projects at Birch and the Seaport Learning Center, students will apply design-thinking strategies, develop design ideas drawing on diverse perspectives, and conduct research and evaluation with diverse participants.

2017: NSF-REAL-S: Real-World Education and Authentic Learning in Science grant. CSSI to connect middle school teachers to this grant.

2016-2017: Creating, Scaling and Sustaining NGSS-Aligned, ONR-Informed Research in High School Science ONR grant. Grant links UC San Diego researchers to 78 K-12 teachers to develop cutting-edge science lessons for local classrooms.

2014: Leveraging UC San Diego/SIO Graduate Students. Funded by the San Diego Science Project and developed through the CSSI, the one-day program linked science teachers to graduate students from Scripps Institution of Oceanography. The teacher professional development program focused on how scientists gather and analyze data in the earth sciences.

2014-present: Peach serves on the CSSI Internal Board.

**Phillips, Goldie, Postdoctoral Researcher, Marine Bioacoustics Lab, Scripps Institution of Oceanography**

2018: Office of Naval Research (ONR) Wave Physics, STEM Learning and Careers grant.

2017: Researcher, Creating, Scaling and Sustaining NGSS-Aligned, ONR Informed Research in High School Science grant, Cohort 3.

**Pommier, Anne, Assistant Professor, Institute of Geophysics and Planetary Physics, Scripps Institution of Oceanography**

2017: NSF CAREER: Experimental Investigation of the Transport Properties of Sulfide Melts at Upper Mantle Conditions. CSSI to provide evaluation.

**Poulsen, Cody, Graduate Student, Scripps Center for Western Water and Weather Extremes (CW3E), Scripps Institution for Oceanography**

2022: CSSI staff provided consultation on an outreach and education component centered on equity.

**Ramanathan, Veerabhadran, Professor, Scripps Institution of Oceanography**

2019-20: CSSI staff supported Ramanathan and **Fonna Forman, Associate Professor, Department of Political Science**, in collective campus grant to MacArthur Foundation for campus and regional collaboration re climate crisis.

**Rivera-Collazo, Isabel C. , Assistant Professor, Human Ecology Lab, Scripps Institution of Oceanography**

2021: CSSI Staff provided consultation on grant, Disaster Capitalism in the Caribbean.

**Rouse, Greg, Professor, Scripps Institution of Oceanography**

2018: Researcher, Deep Sea Lesson Study, Birch Aquarium. CSSI Science Project Director worked with Rouse and **Lisa Levin, Professor, Researcher, Scripps Institution of Oceanography**, to develop an NSF-funded high school science lesson using a modified lesson study model based on Levin and Rouse's findings.

**Sandwell, David, Professor, Institute of Geophysics/Planetary Physics, Scripps Institution of Oceanography**

2017: Researcher, Creating, Scaling and Sustaining NGSS-Aligned, ONR Informed Research in High School Science grant, Cohort 2.

**Stokes, Dale, Research Oceanographer, Marine Physical Laboratory, Scripps Institution of Oceanography**

2017: Researcher, Creating, Scaling and Sustaining NGSS-Aligned, ONR Informed Research in High School Science grant, Cohort 2.

**Sugihara, George, Professor, Scripps Institution of Oceanography**

2019: NSF-NRT proposal. CSSI evaluator will be written in as the independent evaluator and is developing the evaluation plan.

**Teranes, Jane, Lecturer, Geosciences Research Division (GRD), Scripps Institution of Oceanography**

2020: CSSI staff supported GP-IMPACT: Promoting Geosciences through Scripps Transfer Education Pathways.

2018: ITEST Improving Undergraduate STEM Education: Pathways Into Geoscience. A three-year project to promote geosciences through Scripps transfer education pathways ('Geo-STEP' project) that will establish a framework and sustainable mechanisms for increasing the flow of diverse community college students from three local Hispanic Serving Institutions into geosciences degrees at Scripps. CSSI staff to provide outreach and evaluation services.

**Terrill, Eric, Director, Coastal Observing Research and Development Center, Scripps Institution of Oceanography**

2020: CSSI Evaluator co-developed evaluation plan and provided letter of support for grant proposal *SCCOOS: Southern California Coastal Ocean Observing System*.

2017: Researcher, Creating, Scaling and Sustaining NGSS-Aligned, ONR Informed Research in High School Science grant, Cohort 2.

## **Scripps Institution of Oceanography Student Supports**

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**Office of Naval Research Creating, Scaling and Sustaining NGSS-Aligned, ONR Informed Research in High School Science grant**

2016-17: Recruited **Angelica Rodriguez Gilroy, Graduate Student Researcher, Darcy Taniguchi, Price Postdoctoral Fellow, Birch Aquarium** and **James Holmes, Doctoral Student, Driscoll Lab, Geosciences Research Division**, Scripps Institution of Oceanography as researchers to work with teachers for the three-year ONR grant.

**Antarctic Invertebrates at SIO**

2014: CREATE is supported a partnership designed to spread deep professional development experiences linking UC San Diego faculty and San Diego teachers. Worked with **three graduate students from the Scripps Institution of Oceanography** and six teachers from Gompers and from San Diego Global Vision Academies on Earth Sciences professional development.

**The Physics of Breaking Waves at SIO**

2014: Linked science teachers **to graduate students from the Scripps Institution of Oceanography**. The teacher professional development program focused on how scientists gather and analyze data in the earth sciences.

# UC San Diego School of Medicine

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**Al-Delaimy, Wael, Professor; Chief, Division of Global Health; Family Medicine and Public Health, UC San Diego School of Medicine**

2018: SAMHSA (Substance Abuse & Mental Health Administration) Mental Health Awareness Training grant. CSSI helped Al-Delaimy obtain comparison data from middle schools and would provide evaluation services. CSSI assisted in finding a second site for Delaimy's medical school survey for secondary schools.

**Allard, Sarah H., Assistant Project Scientist, Division of Academic General Pediatrics, Child Development & Community Health, UC San Diego School of Medicine**

2020: NSF-URoL MTM 1: (Understanding the Rules of Life: Microbiome Theory and Mechanisms): Elucidating a Genome Size Rule for Microbiome Maintenance of Host Benefits Under Saline Stress. CSSI evaluator designed evaluation plan for the broader impact section and provided a letter of support. With **Cheryl Peach, Scripps Institution of Oceanography**.

**Barrett, Kim, Professor, School of Medicine; Former Dean, Graduate Studies**

2017: NSF INCLUDES: Southern California Pathway to STEM Pilot Project. CSSI leadership supported the Chancellor's Office and the Graduate Division in writing the NSF INCLUDES grant.

2016: NSF INCLUDES: Collective Impact as a Pathway to Reinvigorate Broadening Participation in STEM. CSSI leadership advised on grant content and helped to plan conference.

**Buschmann, Mary, Scientific Writer, Department of Pediatrics, UC San Diego School of Medicine**

2020: NSF-IGE (Innovation in Graduate Education): Piloting an Experiential Learning Program to Improve Graduate Student Career-relevant Skills and Decision Making. With **Jack Gilbert, Professor, Scripps Institution of Oceanography; Department of Pediatrics, UC San Diego School of Medicine**. CSSI evaluator helped design an evaluation plan.

**Breen, Ellen, Associate Researcher, School of Medicine**

2023: CSSI staff supported grant submission, Micro Level Oxygen Transport Mechanisms in Elite Diving Mammals: Capillary RBC to Myofiber.

2022: CSSI Staff supported grant submission, Collaborative Research: Impact of Evolutionary Changes in the Glycocalyx on Oxygen Utilization in Diving Mammals. NSF Collaborative Research proposal.

**Chang, R. Jeffrey R., M.D. Professor; Co-Director; Irene Su, Associate Professor, Center for Reproductive Science and Medicine; UC San Diego School of Medicine**

2017-2018: Reproductive Oncology. CSSI staff supported outreach and evaluation for this grant. New professional development component included recruitment of four middle school teachers to develop NGSS lessons on reproductive science, via lesson study. Teachers attended the Reproductive and Oncofertility Science Academy (ROSA) with high school girls. CSSI staff led development of a lesson to teach to their own students focused on NGSS 3-D lesson design. CREATE/CSSI staff to provide evaluation.

**Frank, Lawrence, Professor; Radiology, Director, Center for Scientific Computation in Imaging, Associate Director, Biomedical Applications UC San Diego Center for Functional MRI, UC San Diego School of Medicine**

2014: NSF: Center for Brain Evolution and Development. CSSI supported faculty member to submit a preproposal to NSF by brainstorming ideas for work with faculty and students to design K-12 applications of science.

**Goldberg, Charles, Clinical Professor, UC San Diego School of Medicine**

2020: CSSI staff supported pre-proposal submitted to the Center for Research in Empathy and Compassion in April, full proposal to be submitted later in summer. With **Linda Awdishu** and **Jennifer Namba, Associate Clinical Professors, Skaggs School of Pharmacy and Pharmaceutical Sciences.**

2019: NSF-RAISE C-Accel: Retooling the Pharmacist to Address Healthcare Needs in the Digital Era through Innovative Learning Technologies. With **Linda Awdishu, Associate Clinical Professor, Skaggs School of Pharmacy and Pharmaceutical Sciences,** along with several other Co-PIs (of which CSSI researcher is one) and industry partner Sony, designed and wrote the grant. CSSI Co-PI to provide evaluation.

**Huh-Yoo, Jina, Assistant Professor, Department of Media and Information, Michigan State University; Rhee Kay, Associate Professor of Pediatrics; El-Kareh, Robert, Assistant Professor of Medicine, Division of Biomedical Informatics Kim, Jihoon, Principal Statistician, Division of Biomedical Informatics, UC San Diego School of Medicine**

2018: NIH FamILIA (Families Living Actively). CSSI leadership helped provide connections and consultation, letter of commitment, and ideas/draft/editing for broader impact on an NIH grant from the School of Medicine, a childhood obesity project connected now to Chula Vista Elementary School District. Chula Vista Elementary School District and CSSI planned to help implement FamILIA as a sustained effort to the district's existing wellness and health initiative.

**Ita, Sergio, Postdoc Employee, UC San Diego School of Medicine**

2019: CSSI Outreach coordinator worked with Ita on STEM education outreach efforts.

**Kalichman, Michael, Adjunct Professor, Director, UC San Diego Research Ethics Program, UC San Diego School of Medicine**

2018: CSSI leadership supported Kalichman in considering design of communications/ethics center outreach.

**Marshall, Hailey, Division Coordinator, Department of Biomedical Informatics, UC San Diego School of Medicine**

2016: NLM Training grant. CSSI to organize a meeting with Bioinformatics, **Rachel Millstone, Department of Education Studies lecturer,** district liaisons, and teachers in relevant areas to make plans for connecting UC San Diego resources with K-12 education community. Potential to have an advance conversation with a whole department about how to leverage its science most impactfully in K-12.



**McDevitt, Kate, Senior Community Health Program Representative, Division of Academic General Pediatrics, Child Development & Community Health; Center for Community Health, School Wellness Programs, UC San Diego School of Medicine**

2014: IMPACT Program. CSSI supported the IMPACT program, a joint effort among School of Medicine, Athletics, Center for Student Involvement (transportation) and San Diego Unified School District. Connected McDevitt to **Earl Edwards, Director, Intercollegiate Athletics, UC San Diego** for student athletes to serve as PE teachers.

**Nguyen, Quyen, Professor, Department of Surgery, UC San Diego School of Medicine/Moores Cancer Center**

2019: NSF Advancing Informal STEM Learning (AISL): Code for a Cure: Cancer Research and Novel Approaches to Computer Science Education for High School Students. CSSI evaluator helped to design the project and to write the proposal. Also wrote the evaluation piece and created the evaluation budget.

**Ramanathan, Jyoti Mishra, Assistant Professor IR, Department of Psychiatry, UC San Diego School of Medicine**

2021: CSSI staff offered consultation for *Breathing Life to a Better Earth*, submitted to Unity for Humanity. 2019: NSF CAREER: CSSI evaluator spoke with Ramanathan about her potential application with plans for assisting with evaluation.

**Rana, Brinda K., Associate Professor, Department of Psychiatry, UC San Diego School of Medicine**

2022: Consulted on NIH SEPA.

2020: CSSI staff supported internal application for NIH Science Education Partnership Award (SEPA), proposal title *UC San Diego Biomedical Research and Mentoring Program for High School Students of Overseas Active-Duty Military Families*

2019: NIH: Science Education Partnership Award (SEPA) Increasing Science Fair Participation through Enhancing Mentor Access in Underserved Populations. CSSI outreach leadership to help support science fair student projects in the Southeast San Diego and Sweetwater school district communities.

2017: NASA NSPIRES Familiar Figures: Upward Bound Space Science Scholars Program. CSSI to pair diverse scientists – familiar figures -- with underrepresented youth and their teachers to make the science and careers of NASA feel and become more accessible to those scholars.

## **UC San Diego School of Medicine Student Supports**

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### **American Medical Student Association**

2017-present - present: Participates in Comienza con un Sueño annual conferences and other STEM events.

### **STEMming 4 Success**

2018 - present: CSSI staff coordinated the Stemming 4 Success event with Health Sciences (**postdocs, graduate and undergraduate students**) in partnership with TRiO/Upward Bound. Event targets underperforming students and their parents. Parent Institute for Quality Education (PIQE) will assist with parents.

**IMPACT Program, Center. for Community Health, School Wellness Programs, UC San Diego School of Medicine**

2014: CREATE supported IMPACT program, joining the School of Medicine with UC San Diego Athletics, Center for Student Involvement (transportation) and San Diego Unified School District. At Florence Elementary, **22 UC San Diego athletes** led physical education classes for 262 students.

## **UC San Diego Skaggs School of Pharmacy and Pharmaceutical Sciences**

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**Awdishu, Linda, Associate Clinical Professor, Skaggs School of Pharmacy and Pharmaceutical Sciences**

2020: Pre-proposal submitted to the Center for Research in Empathy and Compassion in April 2020; full proposal to be submitted in summer 2020. CSSI evaluator assisted with proposal. With **Jennifer Namba** and **Charles Goldberg, Clinical Professor, UC San Diego School of Medicine.**

2019: NSF-RAISE C-Accel: Retooling the Pharmacist to Address Healthcare Needs in the Digital Era through Innovative Learning Technologies. With **Charles Goldberg, Clinical Professor, UC San Diego School of Medicine,** along with several other Co-PIs (of which CSSI researcher is one) and industry partner Sony, designed and wrote the grant. CSSI Co-PI to provide evaluation.

**Ben-Shalom, Ido, Post-Doctoral Scholar, Skaggs School of Pharmacy and Pharmaceutical Sciences**

2020: SDSP/CSSI staff collaborated with Dr. Ben-Shalom and UC San Diego TRIO to lead a Summer Institute for Serra High School students.

2020: CSSI science leadership is collaboratively planning with Ben-Shalom to organize a "Hands-On-Lab" model for Summer 2020 with UC San Diego's TRIO Upward Bound Resident High School Students. SDSP Research presented virtually with online investigations. SDSP Director/CSSI staff are working with him to develop his week-long Unit of Study.

**Bhaskaran, Nitya, Community Teaching Lab Manager, Scripps Research Education & Training, Skaggs School of Pharmacy and Pharmaceutical Sciences**

2021: CSSI Research Evaluation staff provided a consultation on a new NSF IUSE proposal that is focused on mentoring under-represented undergraduate students in research and education at both CA and FL campuses.

**Chang, Geoffrey, Professor, Department of Pharmacology, Skaggs School of Pharmacy and Pharmaceutical Sciences**

2013: NSF IOS: Center for Research on Plant Transporters (CROPS). CSSI staff wrote a letter of support for outreach and evaluation consultation.

**Gilson, Michael, Professor, Skaggs School of Pharmacy and Pharmaceutical Sciences, Chair in Computer-Aided Drug Design; Co-Director, UC San Diego Center for Drug Discovery Innovation**

2021: SDSP director/CSSI staff will lead a lesson study program for teachers for the funded grant *Binding DB: An Open Knowledgebase of Protein-Small Molecule Interactions.*

2019: SDSP director/CSSI staff and program teacher leaders collaborated with Gilson to create a new science lesson focused on Supercomputing and Scientific Data to Accelerate Drug Discovery.

2018: CSSI staff consulted with Gilson to discuss how to use a grant he received to fund a lesson study around his research in protein structure and developing computer models. CSSI staff to discern how this connects with NGSS and how teachers might use the research with their students.

**Kuo, Grace, Professor, Clinical Pharmacy, Family Medicine and Public Health; Associate Dean, Strategic Planning and Program Development, Skaggs School of Pharmacy and Pharmaceutical Sciences**

2016: consulted with Kuo to discuss outreach work and if CSSI can complement SSP efforts.

**Molinar-Inglis, Olivia, Post-Doctoral Scholar, Skaggs School of Pharmacy and Pharmaceutical Sciences**

2019: CSSI Community Outreach and Engagement Coordinator helped Molinar-Inglis submit a proposal to UC San Diego's Office of Equity, Diversity and Inclusion for funds for 2020 STEMming for Success hands-on STEM fair for local high school students.

**Namba, Jennifer, Associate Clinical Professor, Skaggs School of Pharmacy and Pharmaceutical Sciences**

2020: CSSI staff supported pre-proposal submitted to the Center for Research in Empathy and Compassion in April, full proposal to be submitted later in summer. With **Linda Awdishu** and **Charles Goldberg, Clinical Professor, UC San Diego School of Medicine.**

**Siegel, Dionicio, Associate Professor, Skaggs School of Pharmacy and Pharmaceutical Sciences**

2017: NSF-ITEST: Californian Shaman, a Study of Chemistry and Conservation of Native California Plants. CSSI to provide evaluation. 2014: CSSI and EAOP staff to connect Siegel to local resources for San Diego Shamans plant analysis project grants.

**Rzeckler, Rosie, Education Outreach Coordinator, Scripps Research Education & Training, Skaggs School of Pharmacy and Pharmaceutical Sciences**

2021: CSSI Research Evaluation staff provided a consultation on a new NSF IUSE proposal that is focused on mentoring under-represented undergraduate students in research and education at both CA and FL campuses.

## Additional UC San Diego Centers and Institutions

### **Halicioglu Data Science Institute**

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**Watson-Parris, Duncan, Assistant Professor, Halicioglu Data Science Institute**

2023: CSSI Staff supported Broader Impacts.

### **Institute for Neural Computation**

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**Carillo-Sulub, Enrique, Staff Research Associate, Institute for Neural Computation**

2021: CSSI Research Evaluation staff provided consultation to Dr. Wu, Enrique Carrillo-Sulub, and Sydney Kessler to help them think more concretely about and define quantitative methods and statistical analyses for a cognitive behavioral study of how people respond and think in stressful collaborative situations (escape room; behavioral and EEG data).

**Chukoskie, Leanne, Assistant Research Scientist, Institute for Neural Computation**

2015: NSF Advancing Informal STEM Learning Real (AISL): Augmented, and Virtual Environments (RAVE) for STEM Learning. CSSI evaluators prepared an evaluation budget and design, wrote the evaluation portion of this proposal, and provided general feedback on the proposal.

**Kessler, Sydney, Staff Research Associate, Swartz Center for Computational Neuroscience, Institute for Neural Computation**

2021: CSSI Research Evaluation staff provided consultation to Dr. Wu, Enrique Carrillo-Sulub, and Sydney Kessler to help them think more concretely about and define quantitative methods and statistical analyses for a cognitive behavioral study of how people respond and think in stressful collaborative situations (escape room; behavioral and EEG data).

**Wu, Ying Choon J., Assistant Project Scientist, Institute for Neural Computation**

2021: CSSI Research Evaluation staff provided consultation to Dr. Wu, Enrique Carrillo-Sulub, and Sydney Kessler to help them think more concretely about and define quantitative methods and statistical analyses for a cognitive behavioral study of how people respond and think in stressful collaborative situations (escape room; behavioral and EEG data).

2020: NSF ITEST: An Embodied Augmented Reality Coding Platform for Pair Programming Cyberlearning for Work at the Human Technology Frontier. CSSI evaluator co-designed and co-wrote this three year proposal with Ying and co-PIs Robert Twomey, Post-Doctoral Fellow, and Patrick Coleman, Assistant Director, UC San Diego Arthur C. Clarke Center for Human Imagination.

2019: NSF ITEST DTO: The Roles of Achievement and Engagement in Fostering STEM Identity in Middle School Girls. CSSI evaluator to serve as co-PI.

2019: NSF ITEST: An Embodied Augmented Reality Coding Platform for Pair Programming: Cyberlearning for Work at the Human Technology Frontier. CSSI evaluator is co-PI for this grant to study middle school girls' interest in coding and science via hands-on coding-based activities.

2018: NSF ITEST: Flow Versus Fun: Optimizing Engagement to Cultivate STEM Identity in Middle School Girls. CSSI staff to provide evaluation services.

2017: The Impact of Real World Stressors on Problem Solving. CSSI evaluator to provide consultant and statistical expertise, which involves multiple measures both within and across people and time, using both behavioral and brain-related measures.

2016: NSF ITEST: What Makes Us Science People? CSSI staff helped develop the design and methods and the evaluation piece and are listed as evaluators.

**San Diego Supercomputer Center**

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**Baxter, Diane, Former Education Director, San Diego Supercomputer Center**

2014: NSF CSF STEM-C/CS10K Computer Science: Creating a Village for Educators (CS-CaVE) grant. CSSI leadership served as co-Pi with PI Baxter to seed Computer Science Principles (CSP) and AP CSP teachers

across three districts. CSSI evaluator conducted an evaluation of how school districts implement, scale, and sustain CS classes in middle and high school to support districts to create their own networks and working groups of CS educators, create courses, train teachers, and study course implementation.

2014-2015: Baxter served as member of the CSSI Internal Advisory Board.

**Goetz, Andreas, Assistant Research Scientist, San Diego Supercomputer Center**

2022: CSSI staff supported grant submission, Training and Developing a Research Computing and Data (RCD) CI Professionals Community.

**Sale, Jeff, Science Programmer, San Diego Supercomputer Center**

2017-19: CSSI collaborated with Sale for rebooting the San Diego Computer Science Teachers Association (CSTA). CSSI working closely with Sale and SDSC as CSTA increases membership.

**Sinkovits, Robert, Interim Director of Education, San Diego Supercomputer Center**

2023: CSSI staff supported the grant re-submission, Comprehensive Learning for End-Users to Effectively Utilize Cyberinfrastructure (COMPLECS). NSF CyberTraining: Implementation proposal.

2022: CSSI staff supported grant submission, Training and Developing a Research Computing and Data (RCD) CI Professionals Community.

2021: CSSI staff supported grant submission, Comprehensive Learning for End-Users to Effectively Utilize Cyberinfrastructure (COMPLECS). NSF CyberTraining: Implementation proposal.

2021: UC San Diego Math Project/CSSI math leadership partnered to submit grant proposal *Curriculum and Professional Development for a Two-Year High School Integrated Discrete Math and Computer Science Pathway*.

2020: DoD DSEC Bloc Grant: Introducing Computing and Technology through Problem-Solving in Discrete Mathematics. CSSI / UC San Diego Mathematics Project Director and Sinkovits are co-Pis on this grant. Submitted paper to PEARC 2020 conference proceedings.

2018: Job-embedded Naval Experiences in STEM (JONES). CSSI, the Scripps Institution of Oceanography and the San Diego Supercomputer Center in collaboration with SSC Pacific and the Birch Aquarium at Scripps, proposed a three-year effort to link ONR-funded research content and practices, and exposure to Naval STEM careers with San Diego area high schools.

**Short, James E., Ld. Scientist, San Diego Supercomputer Center**

2022: UCSD Math Project Director/CSSI Staff provided letter of support for Algorand Centres of Excellence (ACE) Programme hub at SDSC.

**Strande, Shawn, Deputy Director, San Diego Supercomputer Center**

2018: CSSI researcher consulted with Strande to discuss better ways to connect with SDSC researchers.

**Thomas, Mary, Computational & Data Science Researcher, San Diego Supercomputer Center**

2022: CSSI staff supported grant submission, Training and Developing a Research Computing and Data (RCD) CI Professionals Community.

2022: CSSI staff supported grant submission, Comprehensive Learning for End-Users to Effectively Utilize Cyberinfrastructure (COMPLECS). NSF CyberTraining: Implementation proposal.

**Rodriguez, Paul, Programmer Analst, San Diego Supercomputer Center**

2022: CSSI staff supported grant submission, Training and Developing a Research Computing and Data

(RCD) CI Professionals Community.

**Wolter, Nicole M., Programmer Analyst, San Diego Supercomputer Center**

2022: CSSI staff supported grant submission, Comprehensive Learning for End-Users to Effectively Utilize Cyberinfrastructure (COMPLECS). NSF CyberTraining: Implementation proposal.

## **San Diego Supercomputer Center Student Supports**

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### **CSforEach**

2021: CSSI staff supported sponsorship for inaugural Tritonhacks hackathon.

2018: Computer Science student organization invited to present at Computer Science Teachers Association San Diego Chapter relaunch meeting.

### **ThoughtSTEM**

2013-14: Connected **UC San Diego Ph.D. students/founders of ThoughtSTEM** to Gompers Preparatory Academy to offer and pilot a weekly computer programming workshop to ages 8-18.

## **Qualcomm Institute**

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### **Grieco, Andrew, Assistant Research Scientist, , Qualcomm Institute**

2023: CSSI staff supported grant submission, Development and Implementation of the Quantum Sensing Educational Kit.

### **Theriault, Yves, Director, Education, Outreach, Diversity, Qualcomm Institute**

2022: CSSI Liaison supported recruitment for SDNI RET for Teachers.

2021: CSSI Liaison supported recruitment for SDNI RET for Teachers.

## **Additional UC San Diego CSSI Programmatic Supports**

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### **Abeyta, Edward, Associate Dean; Director, Pre College Programs, UC San Diego Extension**

2020: Live Well Neighborhoods Pilot Program grant. CSSI evaluator worked with Abeyta, **Josh Shapiro, Assistant Dean, Georgia Kovacs, Grant Officer, Cynthia Hansen, Director, Strategic Innovation, Morgan Appel, Assistant Dean, Education and Community Outreach** to provide evaluation services for the San Diego County Office of Education grant.

2018: CSSI leadership connected Abeyta to support Jay Cohen-Schlossberg and other visual artists connected through **SIO Researcher Michael Latz**. Cohen-Schlossberg is a Baltimore-based artist who create social justice murals. Via Abeyta, Cohen-Schlossberg started at Preuss with a fee-for-service effort with 55+ seniors from Extension working with Preuss students.

2017: CSSI staff supported Abeyta in brainstorming possible video additions to the Extension STEAM channel.

2015-2017: With Abeyta, CSSI staff supported UC San Diego Partner Schools College Prep program at the Logan Heights Public Library. Class size was 30 students from Lincoln High School, Gompers Preparatory Academy and The Preuss School at UCSD. CREATE helped purchase 30 new SAT Prep books.

2014-present: Abeyta serves as member of the CSSI Internal Advisory Board.

### **Alumni Affairs**

2015: UC San Diego Promise Initiative/UC San Diego Alumnae. CSSI leadership helped UC San Diego Alumni bring together a host of local K-12 leaders for a discussion of how best to utilize UC San Diego alumnae volunteers in local schools.

2013-2014: Triton San Diego Promise. CSSI consulted with Alumni Affairs about a new effort to tap UC San Diego alumni for school service. CSSI helped convene meeting of school leaders who were Department of Education Studies graduates.

### **Artis, David, Director, Office of Academic Enrichment Programs**

#### **Bejar, Veronica, Assistant Director, Academic Enrichment Programs and McNair Program**

2020: NSF-SSTEM grant: CSSI evaluator to provide evaluation services for this five year grant.

### **Edwards, Earl, Director, Intercollegiate Athletics, UC San Diego**

2014: IMPACT Program. CSSI supported the IMPACT program, a joint effort among School of Medicine, Athletics, Center for Student Involvement (for transportation) and San Diego Unified School District. Connected Edwards to IMPACT Program to provide student athletes to serve as PE teachers for the program.

### **Enrollment Management**

2019-20: CSSI featured Enrollment Management team at expanded CSSI External Board gathering, to introduce local superintendents to Enrollment Management staff and to deepen ongoing preparation and recruitment partnerships.

### **Hao, Ming, Undergraduate Volunteer, Career Services**

2015: CSSI leadership laid the groundwork with career services about an employer survey.

### **Kavocs, Georgia C., University Extension**

2020: CSSI Evaluator co-developed grant proposal Future Achievers Pre-School STEAM Curriculum Development, Implementation, Measure and Evaluation with Community Needs Assessment.

### **King, Russell, Associate Director/Strategic Initiative, UC San Diego Housing and Dining**

2015: CSSI leadership consulted with head of UC San Diego Housing and Dining to support Lincoln High School yield activities in the spring.

### **Klein, Tina, Launchpad, Rady School of Business**

2017-2018: CSSI staff supported Rady School of Business Launchpad entrepreneurial program for K-12 public schools. Held two-day workshop focused on solutions for climate. Participants included high school students, undergrads and grad students. CSSI worked with director at SIO as co-sponsor seeking scholarships for low income students.

### **Latinx/Chicanx Academic Excellence Initiative, UC San Diego**

2019-20: CSSI team presented the CSSI to Latinx Initiative as part of regional strategy development.

**Maldonado, Elisa, Director, Summer Training Academy for Research Success (STARS)**

2015: UC San Diego Bioscholars. CSSI leadership advised and connected Bioscholars (UG biology honors group) to start their science journal program with The Preuss School at UCSD (via Anne Artz, teacher) and connected them to Maldonado at the Summer Training Academy for Research Success (STARS), a program responsible for placing community college students into summer internships.

2015: CSSI linked then “Frontiers of Innovation” internship award coordinator to Director Maldonado to three community college sites so that community college students can have summer internships and potentially transfer. “Frontiers” funded (STARS).

**Moore, John, Dean, Undergraduate Education, VC Academic Affairs; Former Provost, Muir College; Professor, Linguistics Department**

2014-18: College Academic Mentor Program (CAMP). CSSI helped EAOP and Muir College Provost Moore create a new course hosted in EDS, training UC San Diego undergraduates to support high school counselors (regional ratio counselor-student: 1:600).

**Negrete, Gloria, Director, Planning, Strategy and Innovation; Office of Innovation and Commercialization, Research Affairs Smith, Ashley E. (Ash), Associate Director, Art-Tech**

2018: CSSI liaisons and other K12 partners have connected with the UC San Diego maker space consortium COLLAB (Collaboration of Like-minded Learners and Builders). COLLAB leadership originated in Jacobs School of Engineering and Qualcomm Institute.

**Neuhard, Robert, Director, IdeaWave, Office of Operational Strategic Initiatives, Research Affairs Roberson, Melani, Senior Strategist/Innovation Analyst, IdeaWave, Office of Operational Strategic Initiatives, Research Affairs**

2018-2019: CSSI leadership connected San Diego Unified School District with IdeaWave for implementing a crowd sourcing platform for the district’s Power of Pathways and Partnerships College and Career Conference in January 2019.

**Orgera, Jeffrey Assistant Vice Chancellor, Student Affairs /Student Retention**

2016: UC San Diego Chancellor Associates Scholars. CSSI attended several meetings with Gompers Preparatory Academy and Chancellors Associates Scholars leaders on our campus (Orgera, **Gabriele Wienhausen, Faculty Director, Teaching + Learning Commons and CAMSEE; Distinguished Senior Teaching Professor, Cell and Developmental Biology**), to support math programming before and after matriculating at UC San Diego. CSSI leadership initially connected staff to campus partner schools to make connections and discuss status of Chancellor’s Associate Scholars.

**Raza Resource Centro**

2019: CSSI provided unconscious bias and imposter syndrome training to **undergraduate student staff** at the Raza Resource Centro.

**UC San Diego Center for Student Involvement**

CSSI/CREATE’s close working relationship with UC San Diego Extension and its partnerships with the Preuss School at UCSD and Gompers Preparatory Academy brought the need for campus transportation support to the attention of the Weil Family Foundation. The foundation supported the UC San Diego Center for Student Involvement for service maintenance for three service vans transporting tutors and other community service students to Gompers Preparatory Academy, Lincoln High School and other school sites in the county.



**Welch, Edwina, Director, Cross Cultural Center.**

2014: Teaching Diversity Conference. CSSI leadership was consulted regarding the format of the Teaching Diversity Conference. CSSI leadership presented at the conference.

*\*\*Reminder: this working list shares a sample of supports that CSSI personnel housed at CREATE have offered to partners on campus. Supports to K12 and community partners, and non-CSSI supports offered by CREATE orgs, are documented elsewhere. Reach out to CREATE Director Mica Pollock with questions, edits or updates. (micapollock@ucsd.edu)*