

SECURE for Student Success (SfS²)

Core Team Meeting # 4



S. K. Ramesh, Ph.D., FIEEE
Founding Director SfS² & Professor of Electrical and Computer Engineering

09/13/2024

SfS2 Core Team Meeting #4

Photos-Courtesy: Spencer & Ramesh



AGENDA

- **Welcome and Grant Updates– Ramesh**
- Extended Advisory Team / External Advisory Committee Meetings
- Community College Partners
- LA Pierce College – Elizabeth Cheung
- College of the Canyons – Amy Foote
- Project Assessment and Evaluation – Nathan Durdella
- Program Activities (Area Leads)
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- Next Meeting (November 15, 2024)
- Adjourn



Summer Meetings

- Extended Advisory Team
- Date: **Tuesday, July 9th, 2024**
- Time: **10 AM – 12 Noon**
- Location: **In-person and Hybrid**
- External Advisory Committee
- When: **Wednesday, July 10th**
- Time: **11 AM – 1 PM**
- Location: **Hybrid and In-person**
- Participants
- Members of the Extended Advisory Team and External Advisory Committee
- Assessment Coordinator/Area Leads/CC Leads/Project Staff



Extended Advisory Team

- ✓ **Jackie Stallcup**, Interim Vice Provost
 - ✓ **Janet Oh**, Director, Institutional Research
 - ✓ **Gabriela Chavira**, Director, Undergraduate Research
 - ✓ **Danielle Spratt**, Director, Community Engagement
 - ✓ **Veronica Montoya**, Senior Director HSI National Initiatives, (Representing Amanda Quintero, Senior Advisor to the President for Inclusive Excellence)
 - ✓ **Christina Mena**, Assistant Director, Alumni Relations & Engagement (Representing Nichole Ipach, VP University Relations & Advancement)
 - ✓ **Grace Slavik**, Associate Executive Director TuC (Representing Rick Evans, Executive Director, TuC)
 - ✓ **Melanie Bocanegra**, AVP Student Success
- Unavailable
- **Colin Donahue**, VP Admin. and Finance
 - **Freddie Sanchez**, Interim AVP Student Affairs, Equity & Inclusion (Representing William Watkins, VP Student Affairs)
 - **TBA**, AVP Faculty Affairs



External Advisory Committee

- ✓ **Cindy Anderson**, CEO Alula Consulting & Engineering for One Planet (EOP) Strategy Consultant
- ✓ **Chris Erickson**, Consultant, Blue Origin
- ✓ **Erin Hong**, Engineering Manager, Aerospace Corporation
- ✓ **Balaji Iyer**, Director, Naval Air Systems Command, NAVAIR
- ✓ **Naomi Palmer**, JPL Fellow, Office of Safety and Mission Success, Jet Propulsion Laboratory
- ✓ **Felix Rabinovich**, Vice President, ATIMS
- ✓ **Lisa Sachs**, Managing Principal Emeritus, Cumming Group, Chair-Elect, Applied and Natural Sciences Accreditation Commission, ABET
- ✓ **Will Edmunds**, Chair, Radiation Technology, Loma Linda University
- ✓ **Luis Carbajo**, HR Director, Vaughn Next Century Learning center

- ✓ **Sharon DeVivo**, President, Vaughn College
- ✓ **Sunand Bhattacharya**, Associate Vice President, Design & Innovation Strategies, Boston College
- ✓ **Fernando Guarin**, Distinguished Member of Technical Staff, Global Foundries & IBM
- ✓ **Kathy Hayashi**, QUALCOMM, IEEE Board of Directors

Withdrew

- **Julia Potter**, Past President, University Economic Development Association (UEDA)

No response

- **Tom White**, Chief Resource Officer, Network for Global Innovation (NGIN), Professor, Art Center College of Design
- **Fatima Colorado**, Manager, Distribution Planning Engineering, Portland General Electric



Industry Mentors

First Name	Last Name	
Hope	Martinez	RAD
Icess Iana	Nisce	CS
Suzanne	Fisher	ECE
Nataly	Sanchez	ART
Pablo	Cuellar	ART
Jennifer	De Avila	CE
Erin	Hong	ME
Adrian	Gonzalez	CS
Jonathan	Chua	CS
David	Ward	CS
Alexander	Rose	CS
Balaji	Iyer	ECE

Major	Mentors	Mentees
Art	2	6
Comp Sci	5	6
Electrical	2	2
Radiological Sciences	1	2
Mech Eng	1	2
Construction Mgt		3
Structural Eng	1	1
	12	22



Industry Mentors

Industry Mentors (Career Development)

- Advertise and recruit industry mentors – **Mar, Apr, May**
 - Orient industry mentors on project needs, services, and deliverables
 - Up to 10 industry mentors with a stipend of \$ 2 K each annually
- Mentor Orientation– **July**
- Mentor/Mentee matching – By end of September
- Meet and Greet (online) - October
- Program runs – **October – May 31**



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Los Angeles Pierce College

- Summer 2024:
 - MESA peer mentor training
 - 5 peer mentors: 4 new, 1 continuing
- Fall 2024:
 - All new MESA students assigned to peer mentor
 - Continuing MESA students have option to request a mentor





Los Angeles Pierce College

- 7 Pierce students applied for SfS² CSUN summer research projects
- Pierce marine biology instructor participating in 1st cohort of SfS² Community of Practice





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College of the Canyons

Spring/Summer

- Academic support
- Activities/Professional Development Workshops
- MESA Skills Lab Bridge Program
- Summer Mental Health Workshops

Fall Outlook

- Academic Support
- Peer mentors
- Mental Health support groups/workshops
- SACNAS Conference





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Project Assessment and Evaluation

UPDATES

- Project activity assessment with coordination for URSSA survey, workshop assessment questionnaire (research symposium, etc.), and interviews/participatory photography
- Meetings with faculty leads for data collection, APR report and presentation plan
- Meeting with CSUN IR to coordinate data request (December 1st)
- Meetings for CECE survey institutional adoption (TBD)
- IRB protocol modifications (co-PI)

UPCOMING & ONGOING WORK

- APR (Year 1) Sections 2-4 report template draft to be prepared by late January and presented at first project team meeting in Spring 2025
- Participant database and performance measure data coordination with CC leads, faculty leads, and support staff with September 20th deadline (or adjusted per mutual agreement)
- Qualitative data analysis for interview/participatory photography
- IRB modifications (as needed)



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Summer Internship

33 students assigned to 9 faculty mentors

	Dr. Silvia Carpitella	Dr. Vartenie Aramali	Dr. Xunfei Jiang	Dr. Yang Peng	Dr. Md Sahabul Alam	Dr. Rasoul Narimani	Dr. Sepideh Abolghasem	Dr. Ricardo Medina	Dr. Shawn Sun
Alex Mendoza									Alex Mendoza
Brandon Ismalej			Brandon Ismalej	Brandon Ismalej					
Brandon Sani	Brandon Sani							Brandon Sani	
Brenda Zaragoza		Brenda Zaragoza							
Carlo Dela Cruz							Carlo Dela Cruz		
Cass Bigler	Cass Bigler								
Christopher Henry					Christopher Henry			Christopher Henry	
Daniel Garcia Aguilar					Daniel Garcia Aguilar	Daniel Garcia Aguilar			
Davit Gasparyan				Davit Gasparyan					
Erik Jensen						Erik Jensen			
Fernando Ramirez		Fernando Ramirez							
Francisco Hernandez					Francisco Hernandez				
Garcia Elijah							Garcia Elijah		
Haik Aslanyan									Haik Aslanyan
Jahn Aquino						Jahn Aquino			
Jesus Garcia							Jesus Garcia		
Jimwell Castillo			Jimwell Castillo						
Jordan Aviles	Jordan Aviles								
Jose Escobar							Jose Escobar		
Jose M. Valencia Cardoza									Jose M. Valencia Cardoza
Justin Canas					Justin Canas				
Katsuki Yasuda								Katsuki Yasuda	
Leonardo Graciano									Leonardo Graciano
Logan DeHay						Logan DeHay			
Luis Cedeno			Luis Cedeno						
Malcolm Lovelace		Malcolm Lovelace							
Martha Jauregui					Martha Jauregui				
Matthew Smith			Matthew Smith						
Pauline Tran	Pauline Tran								
Shari Salas								Shari Salas	
Stepan Karapetyan				Stepan Karapetyan					
Teo Dominguez			Teo Dominguez						
Ulises Garcia							Ulises Garcia		



Summer Internship
33 students assigned to 9 faculty mentors





Research Symposium

11 posters and oral presentations

CSUN | CALIFORNIA STATE UNIVERSITY NORTHRIDGE

Sfs²
SECURE for Student Success

11SEP24
USU Northridge Center
1:15 PM

Sfs² 1st Annual Undergraduate RESEARCH SYMPOSIUM

Sfs² FIRST ANNUAL UNDERGRADUATE RESEARCH SYMPOSIUM

• **POSTER SESSION:** 1:15 – 2:15 PM

• **ORAL PRESENTATIONS:**
Session 1: 2:30 – 4:00 PM
Break: 4:00 – 4:30 PM
Session 2: 4:30 – 5:45 PM

Session 1

2:30 PM - 2:45 PM

- Time-dependent Working Stress Analysis of Precast Prestressed Ultra-high Performance Concrete Bridge Girders
Faculty Mentor: Dr. C. Shawn Sun
Research Interns: Haik Aslanyan, Alex Mendoza, Jose M. Valencia, Leonardo Graciano

2:45 PM - 3:00 PM

- A data-driven framework for automated classification of machining manufacturing processes
Faculty Mentor: Dr. Sepideh Abolghasem
Research Interns: Carlo Loui Deis Cruz, Jose Escobar, Elijah Garcia, Josus Garcia, Ulises Garcia

3:00 PM - 3:15 PM

- How CE "Lil" became easy to read
Faculty Mentor: Dr. Vartenie Aramali
Research Interns: Malcolm Lovelace, Fernando Ramirez, Brande Zaragoza

3:15 PM - 3:30 PM

- Coding a procedure to prioritize key factors in an IT company
Faculty Mentor: Dr. Silvia Carpitella
Research Interns: Jordan Aviles, Brandon Sani

3:30 PM - 3:45 PM

- Machine Learning-based GPU Energy Prediction for Workload Management in Datacenters
Faculty Mentor: Dr. Xunfei Jiang
Research Interns: Matthew Smith, Brandon Ismalej

12 Sfs² STUDENT RESEARCH SYMPOSIUM 2024

Session 1 continued

3:45 PM - 4:00 PM

- Solving nonlinear differential equation with neural networks
Faculty Mentor: Dr. Yang Peng
Research Interns: Stepan Karapetyan, Brandon Ismalej, Juan Rodriguez, Davit Gasparyan

Session 2

4:30 PM - 4:45 PM

- How to improve organizational aspects in the restaurant business
Faculty Mentor: Dr. Silvia Carpitella
Research Interns: Cess Bigler, Pauline Tran

4:45 PM - 5:00 PM

- Investigating the Impact of Electric Vehicle Charging Loads on CSUN's Electric Grid
Faculty Mentor: Dr. Mohammad Rasoul Narimani
Research Interns: Daniel Garcia Aguilar, Logan DeHay, Jehn Aquino, Erik Jensen, Juan Rodriguez

5:00 PM - 5:15 PM

- 3D Vehicle Detection and Classification for Roadside Traffic Flow Monitoring
Faculty Mentor: Dr. Xunfei Jiang
Research Interns: Jimwell Castillo, Luis Ceden, Teo Dominguez

5:15 PM - 5:30 PM

- Developing and Testing of an Arduino-Based Electrical Resistivity Tomography Apparatus
Faculty Mentor: Dr. Ricardo Medina
Research Interns: Chris Christopher Henry, Shari Salas, Brandon Sani, Katsuki Yasuda

5:30 PM - 5:45 PM

- Optimizing Inter-Satellite Optical Communication System Through the Integration of Channel Coding
Faculty Mentor: Dr. Md Sahabul Alam
Research Interns: Francisco Hernandez, Justin Canas, Christopher Henry, Daniel Garcia Aguilar, Martha Jauregui

California State University Northridge **CSUN** 13



Evaluation Process

A great amount of data has been collected 😊



Photography
group sessions



Post-event
Survey



Future Lines

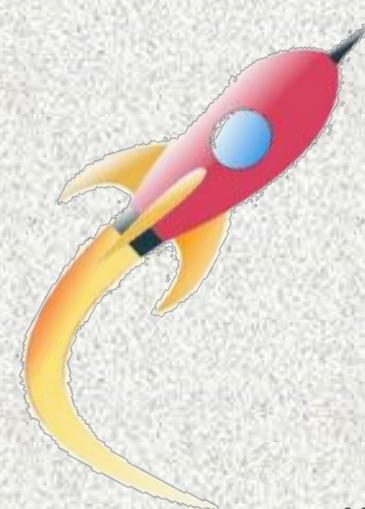
We aim to continuously improve the program!



Feedback-based
analysis



Data-driven
improvements



Potentially
expand participation



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Summer-2024 Student Workshops

Transfer Transitions Workshop

Navigate the Path to Success for Transfer Students

Friday July 26, 2024

9:00 AM to 12:00 PM • Johnson Auditorium, Jacaranda Hall

Takeaways

- Financial Literacy and Scholarships by Bhernard Tila (Financial Literacy Specialist)
- Degree Progress Report and Transfer Credit by Tatiana Ortega (Assessment Specialist)
- Enhancing Study Skills by Jessica Trujillo (Graduation & Retention Specialist)
- Mental Health and Wellness Steve Silver (Counselling Service Specialist)

Total Registered: 42



Fall-2024 Student Workshops

Pathway to Career Workshop

STEAM Career DAY Prep and Power-Up

Thursday September 10, 2024

12:30 PM to 1:45 PM • Thousand Oaks Room, USU

Takeaways

- Get the **inside scoop** on STEAM Career Day happening on 9/24/24
- Discover **tips for creating a standout resume** that grabs employee's attention
- Learn how to **confidently approach industry professionals** & make a lasting impression
- Explore Career Center Resources

Total Registered: 32



Upcoming Fall-2024 Student Workshops

❖ **Career Development Workshop**

- **October 31, 2024, from 12:00 PM to 2:00 PM at Thousand Oaks Room, USU**
- Panel discussion on 'Building Your Professional Future'
- Personal Branding Workshop

❖ **Innovator Connect Conference**

- **November 1, 2024, from 8:30 AM to 4:30 PM**
- Day-long conference with three distinguished keynote speakers
- Panel with Industry mentors



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Peer Mentoring Program

- 18 peer mentors
- Number of mentees grew from 51 (SPR 24) to 160 (FA 24)
 - 120 mentees have been matched with mentors, the rest will be matched once new mentors are onboard
- Mentors are actively meeting with their mentees, logging in their interactions, and reporting flags (potential issues faced by mentees)



Peer Mentoring Program

- **Future plans**
- Fall 2024 - Will continue recruiting mentees (Fall 2024 new transfer students)
- Fall 2024 - Will recruit 22 new mentors to reach our stated goal of 40 mentors
- Spring 2025 – Will recruit mentors to continue program onto year 2



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Summer Activities Overview

➤ Course Revision Efforts

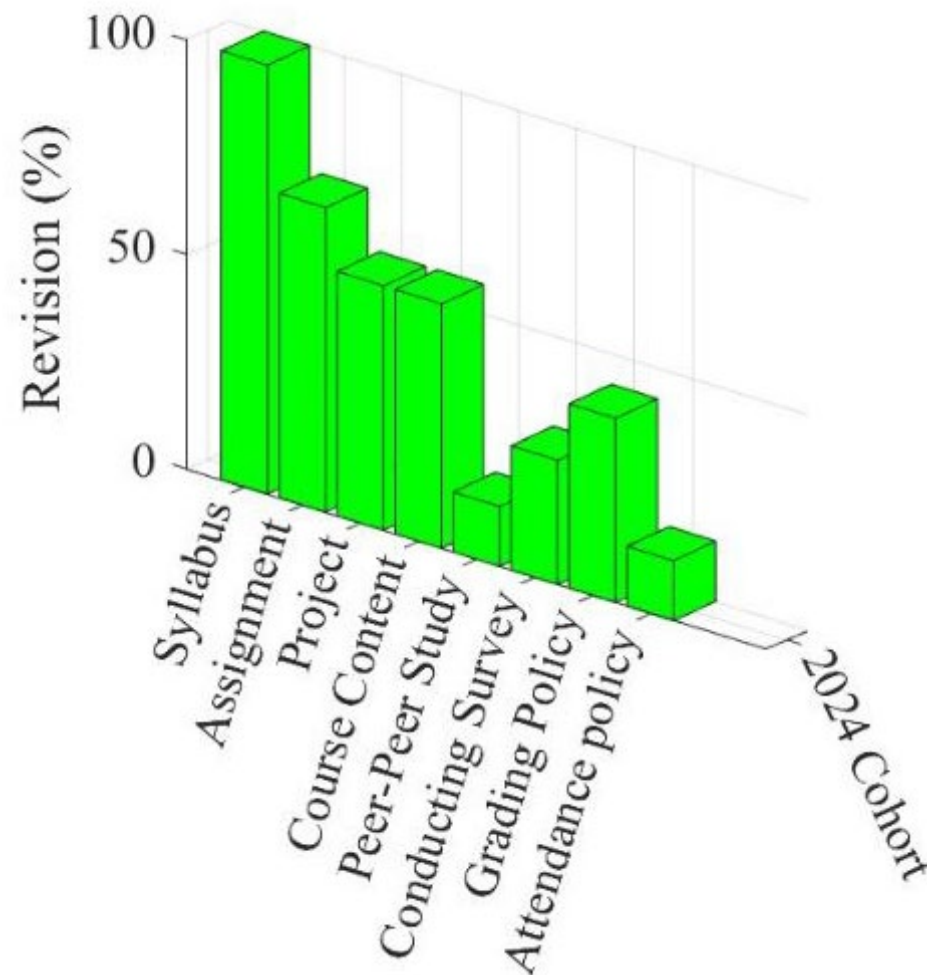
- Developed a course revision table to track changes and updates by faculty. **Ten** courses have been revised so far.

➤ Faculty Engagement

- Reached out to faculty members to understand their current practices regarding assignments.

➤ Syllabus and Content Updates

- Faculty members who have updated their syllabi and course contents.





Fall Semester Activities

- **Forming a new FCOP Cohort:** Form a faculty team for recruitment and engagement in FCOP activities.

Spring Semester Activities

- **Conducting Interviews with FCOP Cohort 2024:** Schedule individual interviews with faculty to assess the impact of changes on their class performance.
- **Faculty Showcase: Initiatives and Activities by FCOP Cohort 2024.**
- **Workshop for the New FCOP Cohort 2025.**
- **Database Development:** Create a comprehensive database from faculty feedback and experiences.



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