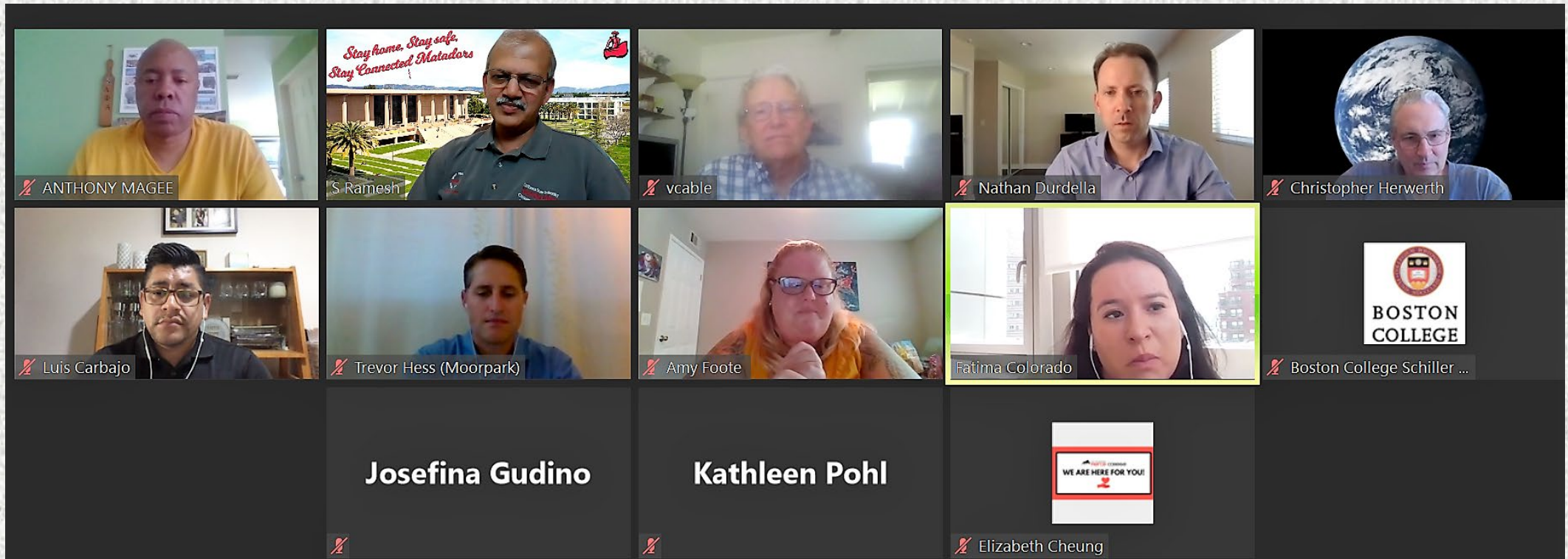




# Welcome to the 10<sup>th</sup> annual AIMS<sup>2</sup>(HSI-STEM Grant) External Advisory Committee Meeting

HSI STEM Grant Program



*1 PM - 2:30 PM*  
*Jun 24, 2021*

AIMS(HSI-STEM Grant) Meeting # 96



## *Disclaimer*

- Supported by the AIMS<sup>2</sup> Program and funded by the United States Department of Education FY 2016 Title III, Part F, Hispanic-Serving Institutions (HSI) STEM and Articulation Program five-year grant, Award Number P031C160053, CFDA Number 84.031C.
- However, the contents of this presentation do not necessarily represent the policy of the US Department of Education, and you should not assume endorsement by the Federal Government.





## *AGENDA*

- Welcome and Introductions – External Advisory Committee
- Program News and Year 5 Activities (CSUN) – Ramesh
- Glendale Community College – Chris Herwerth
- College of the Canyons – Amy Foote
- Moorpark College – Scarlet Relle
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# *External Advisory Committee*







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# Attract Inspire Mentor Support Students (AIMS<sup>2</sup>) Program

California State University Northridge

Total project participants across five project sites: CSU Northridge, College of the Canyons, Glendale Community College, Moorpark College, and Los Angeles Pierce College

**255** Year 1  
**366** Year 2  
**388** Year 3  
**444** Year 4

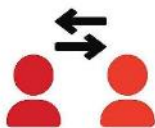
## CSU Northridge Participants

**111** Mentees matched  
**21** Mentors volunteered

## Key Program Components



Faculty Mentoring



Peer Mentoring



Peer Tutoring



Student Research with Faculty



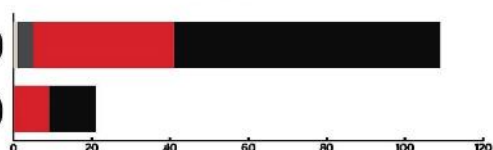
Pre-professional and Career-related Activities

## CSUN Mentee-Mentor Demographics

### Gender

Mentees

Mentors



Male Female  
Non-binary Not Provided

### Race



Hispanic-Latino African American Not Provided  
White-Non Hispanic Multi-racial Other  
Asian American Hawaiian-Pacific Islander

## Performance Measure Data for CSUN Project Participants

**259 out of 297**

CSUN project participants who successfully completed gateway courses

**84%**

**111 out of 127**

Female CSUN project participants who successfully completed gateway courses

**97%**

**130 out of 134**

CSUN project participants in good academic standing

**100%**

**50 out of 50**

Female CSUN project participants in good academic standing

**71%**

**10 out of 14**

3-year graduation rate from CSUN for the first two transfer cohorts of project participants

**67%**

**4 out of 6**

3-year graduation rate from CSUN for the first two transfer cohorts of female project participants

## Gains Reported on the Undergraduate Research Student Self-Assessment



**94.9%** strongly agreed or agreed that doing research confirmed their interest in their field of study (n=111).

**75.2%** reported great or good gains in confidence in their ability to do research (n=88).

**74.4%** reported great or good gains in understanding what everyday research work is like (n=87).

**71.8%** strongly agreed or agreed that their research experience has prepared them for graduate school (n=84).

**87.2%** strongly agreed or agreed that their research experience has prepared them for a job (n=102).

### Contact Us

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(818) 677-4742

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www.ecs.csun.edu/aims2





## *Highlights from Year 5*

- Served a total of ~140 students at CSUN in 5 cohorts
- Formal large group meetings for entire cohort (Orientation, Peer/Faculty Mentor Panels)
- CSU Systemwide invited presentations (August/Dec 2020)
- Peer Mentor program completing third year with over 20 mentors including 4 alumni mentors
- Supported 10 students to attend Thrive-Wise mini devpulse con on March 31
- 2021 Research Symposium (April 7-8) – 24 students, 7 Projects, 100 % online
- Graduation Celebration (May 27) – Excelencia Awards, Peer Mentor, Industry Representatives, Graduating Students recognition (23 graduates)



# Industry Panelists: For

## Name

Ms. Kerstern Malama

Mr. Felix Rabinovich

Ms. Fatima Colorado

Mr. Anthony Ortiz

Ms. Lisa Bayne

### AIMS<sup>2</sup> PANEL DISCUSSION “PERSPECTIVES FROM INDUSTRY LEADERS”

Have you ever wondered about what it is like to work in industry?

Don't miss this panel discussion with industry experts who will share their unique perspectives with you. Join us on **Monday, March 29<sup>th</sup> at 5:30PM on Zoom**

<https://csun.zoom.us/j/86871472501?pwd=NjZqbNcGFhZTlDeGtMK0lTdWlkZz09>



#### Panelists:

- **Ms. Kerstern Malama**, Quality System Engineer II at Northrop Grumman
- **Mr. Felix Rabinovich**, Vice President, Advanced Technology Information Management System (ATIMS)
- **Ms. Fatima Colorado**, Senior Capital Sponsor at Portland General Electric
- **Mr. Anthony Ortiz**, Engineering II, Hardware and Test, HRL Labs Inc.,
- **Lisa Bayne**, Engineering Manager, Combustion Devices Design (Rocketdyne)





# *AIMS<sup>2</sup> Featured in National Briefing 25 Years of HSIs in California*

**Erika Beck (she/her/hers)**  
that really attracted me was the research.

**S. K. Ramesh, Ph.D.**  
Director and Lead Principal Investigator AIMS<sup>2</sup> Program, CSUN  
Professor of Electrical and Computer Engineering, CSUN  
of Hispanic students, underrepresented minorities.

**Deborah Santiago**

**Chancellor Joseph L. Castro**

**Eloy Oakley**  
- The AIMS<sup>2</sup> program here at CSUN is really beneficial

**Interpreter Kevin Cikatrics**

**Christian Mariscal**  
Mechanical Engineering Student, CSUN

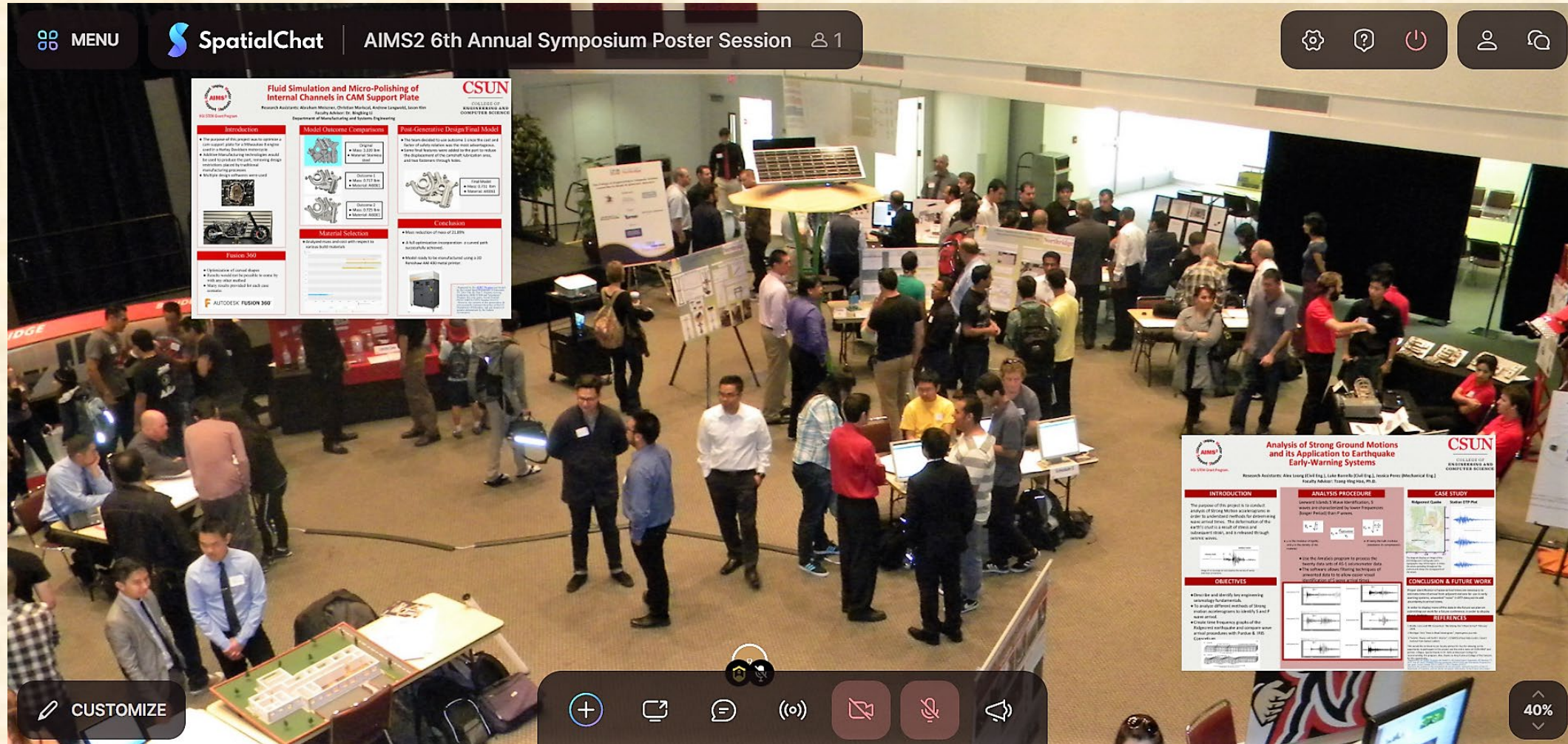
**Alan Cruz**  
Mechanical Engineering Student, CSUN

**WELCOME**  
California Briefing on 25 Years of HSIs in Accelerating Latinx Student Success





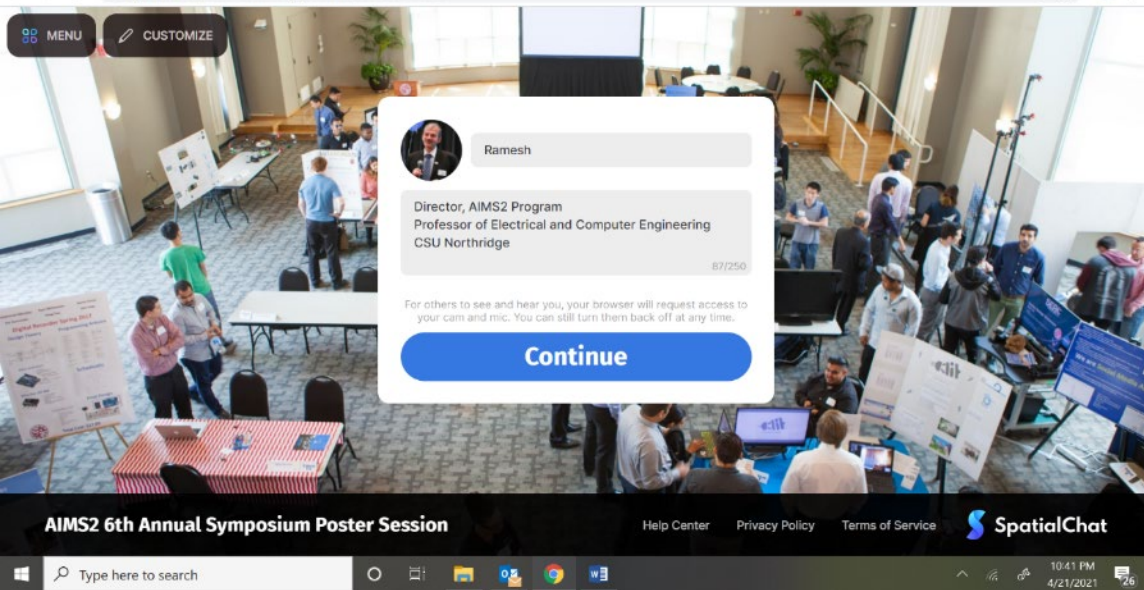
# AIMS<sup>2</sup> 6<sup>th</sup> Annual Research Symposium: April 7-8, 2021



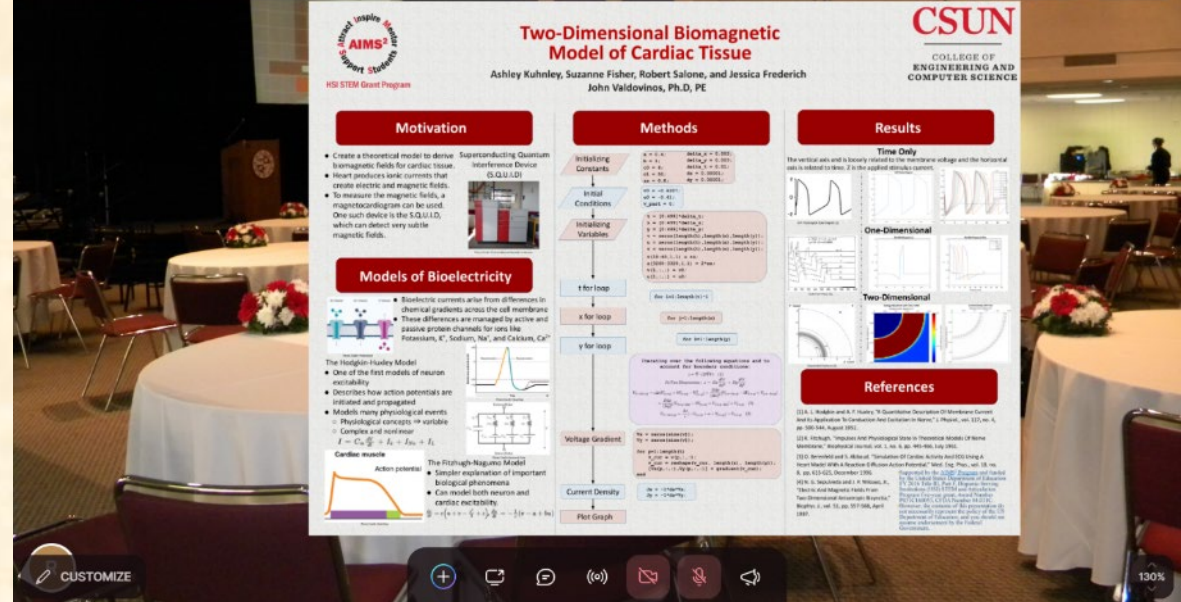




AIMS2 6th Annual Symposium Poster Session  
spatial.chat/s/AIMS2AnnualSymposium?password=7Yszv



AIMS2 6th Annual Symposium Poster Session







## *Looking ahead to 2021-22*

- We have 98 students remaining in the program at CSUN for fall 2021/spring 2022. Approximately 50 % will graduate by spring 2022.
- No-cost extension year request to continue the program
- USDE 2021 competition announced on April 30.
- AIMS<sup>2</sup> selected to submit a proposal from CSUN.
- Submitted a 5-Year, \$ 5 Million grant proposal
- **“AIMS<sup>2</sup> 3.0: From Access to Completion –Using a servingness model to enhance student belonging and success” – Proposal submitted June 8.**
- Results will be announced in September 2021.





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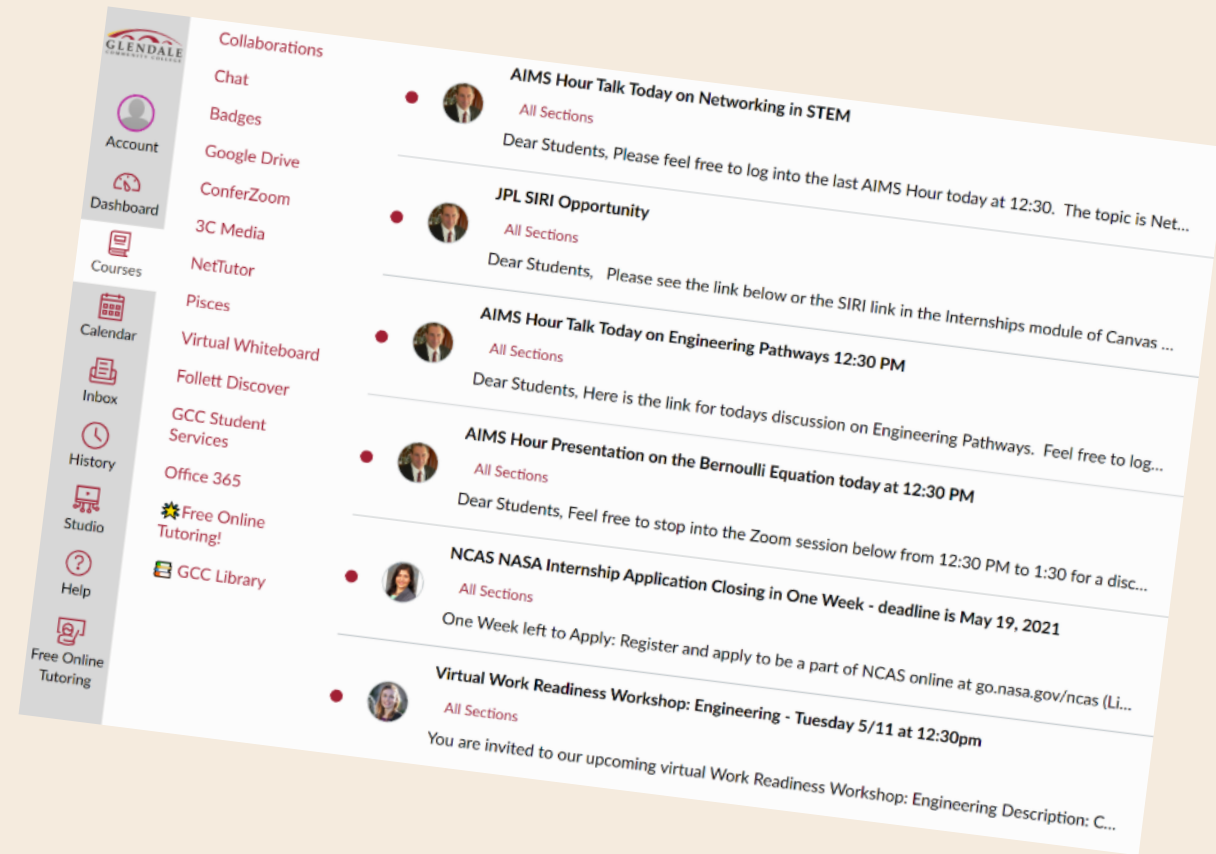
# AIMS<sup>2</sup> at Glendale Community College

Professor Christopher Herwerth  
Counselor Shelby McIntyre



# Program Highlights

- Streamlined communication via Canvas Shell
- Job, Internship, Conference, & Research Opportunities
- Individual support from engineering faculty & AIMS2/STEM counselor
- Faculty and Counselor Professional Development
- ELC Attendance



# AIMS<sup>2</sup> Hour



**GLENDALE COMMUNITY COLLEGE**

**AIMS<sup>2</sup> - Attract, Inspire, Mentor and Support Students**

**AIMS<sup>2</sup> Hour**

**Thursdays 12:30-1:30pm | Spring 2021**

**All STEM Students Welcome!**

Come join Engineering Faculty Chris Herwerth, Career Education Counselor Shelby McIntyre, and fellow Engineering, Computer Science, & STEM Students in informal sessions to connect, build community, and share knowledge/resources

DATE	TOPIC
February 25	E-Week (Engineering Week) & Welcome
March 4	Check-in / Office Hour - How can we support you?
March 11	30min Upper Division Preview - Stress Analysis Using SolidWorks
March 18	1hr Upper Division Preview - Continuity & Energy Equations
March 25	Resume Development Tips for Engineering & STEM
April 1	Wellness & Mental Health: Check-in & Support
April 8	N/A - No AIMS <sup>2</sup> Hour This Week
April 15	N/A - GCC Spring Break
April 22	Engineering Projects from Faculty
April 29	Bias in STEM/Engineering & Improving Inclusion
May 6	Alumni Panel - Women in Engineering
May 13	30min Upper Division Preview - Bernoulli's Equation
May 20	Career Pathways in Engineering
May 27	Strategies to Start Networking in STEM Now

- Weekly Zoom gatherings to build community, share knowledge, and increase students' motivation & work readiness
- Student quotes:
  - “Overall, was a good experience with many new things to consider for my path as a STEM major”
  - “Resume/Networking tips really help prepare for the future”



# GCC AIMS2 Outcomes

- Student participation in CSUN research with a presentation on electric vehicle technology environmental concerns
  - AS Degrees in Engineering Technology
  - AS and Transfer Certificates in ME and EE
  - GCC and CSUN continued articulation strengthening
  - Leverage Activities
    - SME and SWE memberships for students
    - Engineering Technology Design Projects
    - Employment with Industry Partners
    - Industry Certificates earned by AIMS students, CSWA
    - Additional learning support; SolidProfessor
    - Enhanced virtual office hours for AIMS students
- Faculty Award – Nareh Manooki



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# View of the last Year for College of the Canyons AIMS<sup>2</sup> students



- We provided Tutoring, Academic Excellence Workshops, STEM Counseling, Peer mentoring, Research and Internship opportunities, and Professional Development workshops.
- STEM Lab Skills Program started Spring 2021



- 75 students graduated with a 3.5 GPA this year
- 5 Engineering students and 8 Computer Science Majors will be starting at CSUN this fall.



- Internships/Research:

- a) We have 10 students doing summer internships in 5 different states.
- b) We had 3 AIMS<sup>2</sup> students participate in faculty led research at CSUN in Fall 2020.
- c) We have 8 students that have just been accepted into the NCAS program for fall 2021.

- Scholarships:

- a) One of our students received a \$5000 Southern Cal Gas Scholarship
- b) 53 of our students received COC scholarships totaling \$58,000.
- c) Coulson Aguirre – First COC fellow of the ARCS program at CSUN and will be one of the engineering students starting in the fall!





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# AIMS<sup>2</sup> AT MOORPARK COLLEGE

## *20-21 SUMMARY*



# AIMS<sup>2</sup> AT MOORPARK COLLEGE

- Students who applied for membership: 19
- Bi-weekly Meetings: 14
- Average Attendance at Meetings: 12
- Scheduled Student Counseling Appointments: Approx. 35
- Many more individual points of contact, including impromptu Zoom meetings and email exchanges, to serve students as needed in a timely manner

# BI-WEEKLY MEETING TOPICS

- Soft-Skills in the workplace
- Personal aptitudes and their application to academic success and career success.
- Introduction to campus resources and student support for academic success, transfer, financial aid, personal well-being, and more
- On-campus and external resources for job and internship opportunities, professional development, and career exploration
- Interview skills, resume building
- Guest speakers
  - Moorpark College Career Transfer Center
  - Cal State Long Beach Antelope Valley Campus
  - Iron Range Engineering – Minnesota University



# INDIVIDUAL COUNSELING & ADVISING TOPICS

- Course planning, including comprehensive education plans for Associate Degree attainment and transfer
- Transfer exploration
- Referrals for additional resources, including mental health counseling, food assistance, and financial aid
- Written recommendations and interview prep for summer 2021 internships

# YEAR-END FEEDBACK FROM AIMS<sup>2</sup> STUDENTS

- AIMS<sup>2</sup> is a “community,” and a unique opportunity to support and collaborate with like-minded students
- Desire to increase opportunities to practice and apply soft-skills
- Access to counseling and advising has been especially valuable
- Zoom breakout rooms have been helpful— How can a similar small-group environment be created and utilized once in-person meetings resume?
- Desire for field trips





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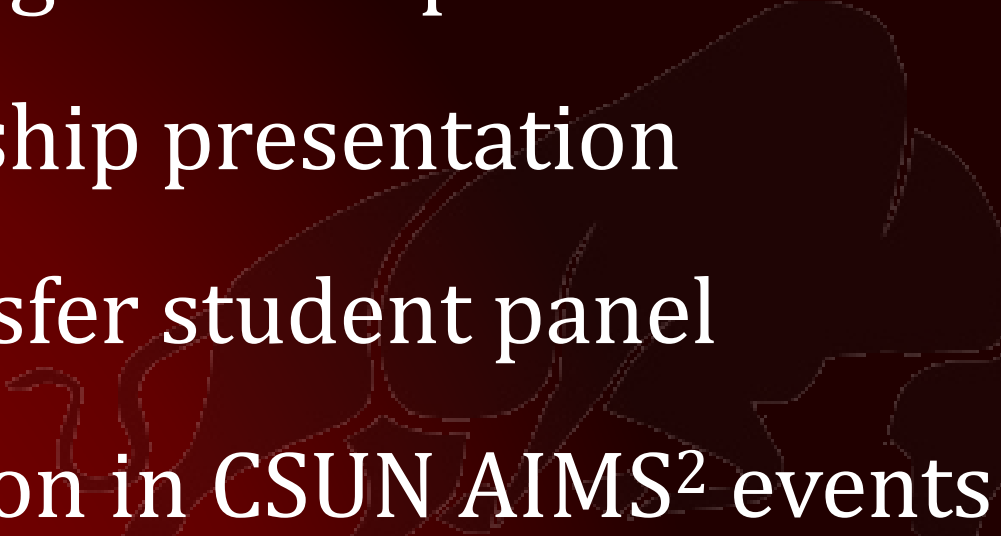
## 2020-21 AIMS<sup>2</sup> ACTIVITIES:

- STEM Tutoring
  - Physics
  - Engineering
  - Computer Science
  - Calculus
- STEM Transfer Support





## 2020-21 AIMS<sup>2</sup> ACTIVITIES:

- Engineering transfer presentation
  - JPL internship presentation
  - STEM transfer student panel
  - Participation in CSUN AIMS<sup>2</sup> events
- 



## *AGENDA*

- Project Evaluation and Progress to date – Nathan Durdella

<https://prezi.com/view/nqsTC7sAxTkz1uaw0nUj>

- Feedback and Discussion - External Advisory Committee
- Adjourn





## *AGENDA*

- Project Evaluation and Progress to date – Nathan Durdella
- Feedback and Discussion - External Advisory Committee
- Adjourn



## *General questions for your consideration*

1. What would you consider as the top three activities that are critical to the success of our program?
2. What is your assessment of our performance with reference to those activities? (based on a review of the meeting materials and presentations)
3. Are there any opportunities that we need to address as we look ahead to next year and potentially the next grant?





## *AGENDA*

- Project Evaluation and Progress to date – Nathan Durdella
- Feedback and Discussion - External Advisory Committee
- Adjourn



*For additional information  
please visit [www.ecs.csun.edu/aims2](http://www.ecs.csun.edu/aims2)*



[s.ramesh@csun.edu](mailto:s.ramesh@csun.edu)

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