



## Welcome to AIMS<sup>2</sup>(HSI-STEM Grant)- Meeting # 93 Feb 11, 2021, 1 PM - 3:00 PM



02/11/2021 AIMS2 HSI-STEM Meeting # 93





- Welcome and Information Items Ramesh
- Meetings calendar for spring 2021
- Infographic for AIMS<sup>2</sup> Offer from CEEE @ CSULB
- AIMS<sup>2</sup> Excelencia Student Award Nominations Josefina and Ramesh
- Year 4 APR Update Ramesh
- Year 5 Sub-awards Ramesh and Cristian



## Call for Proposals Focused on COVID-19 Response

### **IEEE HAC/SIGHT Projects**



Submission Deadline
01 March 2021



Humanitarian Activities Committee

### **IEEE SIGHT**

Special Interest Group on Humanitarian Technology

Find all the details at:

hac.ieee.org/funding-opportunities/covid-19-projects

- Food Security
- Infection Control Devices
- Information and Communications Technology (ICT)
- Medical Devices
- Personal Protective Equipment (PPE)
- Sustainable Power Sources
- Water, Sanitation, and Hygiene
- Other pandemic-related topics





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## Meetings Calendar for Spring 2021

- ✓ January 14th, 2021
- ✓ February 11th, 2021
- March 11th, 2021
- April 8th, 2021
- May 13th, 2021

All meetings on Zoom online

Monthly meetings above are scheduled from 1 PM - 3 PM

- April 2021 Annual Research Symposium, TBD
- Week of June 7th Tenth annual external advisory committee meeting





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**SPRING 2019** 

# EXCEL TRANSFER LEARNING COMMUNITIES

The spring 2019 EXCEL Transfer Learning Communities is a semester-long course (NSCI 390) open to all incoming undergraduate transfer students with majors in College of Engineering (COE) or College of Natural Sciences and Mathematics (CNSM). The purpose of the program is to:



Create a community among new spring STEM transfer students



Increase their sense of belonging to the campus



Increase their STEM identity and academic confidence



Provide them with the resources and supports they need to be successful in their first term at CSULB



Students are recruited via email the winter before matriculating, as well as during STEM Transfer Orientation and SOAR. **22** 

Fall transfer students enrolled in the two NSCI 390 EXCEL Transfer Learning Communities in spring 2019.

#### KEY FINDINGS FROM POST-SURVEY RESPONSES

#### SENSE OF BELONGING



84% of students agreed with the statement "I made friends at CSULB."

In the open-ended responses, one student commented gaining "some very close friends and relations" by being part of the learning community.

#### ACADEMIC CONFIDENCE

The percentage of students who agreed with the statement "I am good at science" increased

70.8% to 94.4%

In the open-ended responses, one student commented, "This program was amazing at showing me resources & opportunities. I feel a lot more prepared than other peers of mine in CNSM that did not join NSCI 390."

#### **KEY FINDINGS FROM POST-SURVEY RESPONSES**

#### SENSE OF BELONGING



84% of students agreed with the statement "I made friends at

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CSULB."

## KNOWLEDGE OF CAMPUS RESOURCES

84%

of students agreed with the statement "I made friends at CSULB."

The percentage of students who reported feeling familiar with the Career Development Center (CDC) increased from:

20.8% to 78.9%

#### ACADEMIC CONFIDENCE

The percentage of students who agreed with the statement "I am good at science" increased

70.8% to 94.4%

In the open-ended responses, one student commented, "This program was amazing at showing me resources & opportunities. I feel a lot more prepared than other peers of mine in CNSM that did not join NSCI 390."

#### STEM IDENTITY



100%

of students agreed with the statement "I belong in the field of math."



80%

of students agreed with the statement "I belong in the field of science."

In the open-ended responses, one student commented, "I have gained confidence in believing I am in the correct major."



CENTER FOR EVALUATION & EDUCATIONAL EFFECTIVENESS



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#### AIMS<sup>2</sup> Student Recognition Award

Name:	Overall GPA: (3.0 minimum)
Major:	Standing:
Personal att	ributes:
	(responsible, leadership, overcoming academic/personal challenges as demonstrated or reported during faculty mentor meetings; or their participation program activities for community college students).
Program inv	olvement:
,	(consistently meeting program requirements for CSUN students; meaningful participation in program activities for community college students).
Campus inv	olvement:
	(membership in any club, organization, research program, or professional organization).
Community	involvement:
'	(student's involvement in the community and their role).



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- AIMS<sup>2</sup> student recognition awards (Excelencia)
- Nominations from faculty and community college liaisons
- Deadline for nominations: Friday, March 12, 2021
- Review Committee (TBD in March)
  - Propose 3 member committee with 2 representatives from CSUN and 1 representative from a partner community college
  - Review nominations and make recommendations
  - Deadline for recommendations: April 8, 2021





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- Supplemental award (AIMS2 Future Teachers in STEM) status update
- Project implementation and timelines Susan Belgrad
- Project Assessment and Evaluation Nathan Durdella





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- Project Activities and plans for spring 2021 CC Project Partners
- College of the Canyons Amy Foote
- Glendale CC Chris Herwerth, Shelby McIntyre, Marisela Canela, Freddy Saucedo
- Moorpark College Trevor Hess
- LA Pierce College Elizabeth Cheung
- CSUN (February Workshop Preparing for Graduate School) Josefina





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### **DISCUSSION ITEMS**

- Planning and logistics for 2021 Research Symposium Ramesh
- Demo of Spatial Chat platform for "virtual" poster session Josefina
- Faculty Reports\* Faculty Mentors
- Adjourn



#### Behzad Bavarian and Lisa Reiner:

Title: Corrosion and corrosion protection of Aluminum alloys for Automotive Applications

Students: Christopher Villalpando, Beatriz Acuna, Emily Rossiter

### Kay Hao:

Title: Analysis of Ground Motions and its Application to Earthquake Early-Warning Systems

Names of students: Alex Leong, Jessica Perez, Luke Barella



### **Kyle Dewey:**

1.) Title: Towards the Sentiment Analysis of Tweets

Students: Joshua Alvarado, Nuelbella Sandoval, Fernando Vargas

2.) Title: Building On the Proteus Programming Language

Students: Eileen Quiroz, Frank Serdenia, Simran Gill

### **Bingbing Li:**

Title of presentation: Generative Design of Cam Plate Optimization for Metal Additive Manufacturing.

Title of poster: Optimization of Cam Support Plate Utilizing CAD software and Generative Design.

Students: Christian Mariscal, Abraham Meiszner, Andrew Langwald, Jason Kim



#### John Valdovinos:

Title: Two-dimensional Biomagnetic Model of Cardiac Tissue

Names of students: Ashley Kuhnley, Susanne Fisher, Jessica Frederich, and Robert

Salone

#### Bruno Osorno:

Title: Modeling and Simulation of Electric Vehicles-Solar Energy-Battery systems

Names of students: John Dizon, Lucia Castillo, Farouk Mostafa



## Fall 2020-Spring 2021 Research Program

Spring 2021 Research Assistants			
Faculty Mentor	Project	Student Name	Maximum RA hours/week
	Digital Twin and Metal	Andrew Langwald	5
Bingbing Li	Additive Manufacturing of Harley Davidson Engine	Jason Kim	5
	CAM Support	Abraham Meiszner	5
	Numerical Models of	Ashley Kuhnley	3
John Valdovinos	Magnetocardiogram Field	Alan Cruz	3
	Sensors		
	Modeling and Simulation	John Dizon	5
Bruno Osorno	of Electric Vehicles-Solar	Farouk Mostafa	5
	Energy-Battery systems	Lucia Castillo	3
		Beatriz Acuna	5
Behzad Bavarian and Lisa	Corrosion protection of	Emily Rossiter	5
Reiner	Aluminum alloys used in	Christopher Villalpando	3 hours - 5 hours
	Automotive Industries	ciristopher vindiparido	3110413 3110413
	Improving the durability of		
Behzad Bavarian and Lisa	packaging materials using		
Reiner	environmentally friendly		
	vapor phase corrosion inhibitors		
	Analysis of Strong Ground	Luke Barella	3
Tzong-Ying(Kay) Hao	Motions and its	Alex Leong	5
	Application to Earthquake Early-Warning Systems	Jessica Perez	3 hours - 5 hours
		Joshua Alvarado	3
Kula Davier	Sentiment Analysis of	Fernando Vargas	3
Kyle Dewey	Tweets	James Bentley	3
	Adding Fraktings to the		
Kyle Dewey	Adding Features to the Proteus Programming		
Nyie Devely	Language		
	Evaluating Test Suite		
Kyle Dewey	Generation Techniques for		
Ryle Devely	Introductory Computer		

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## Fall 2020 - Spring 2021 Research Program

- Open to the cohort, invited guests, and the public
- Proposed Dates
  - April 7 8, 2021
  - Split into two sessions (2 hours per session)
- Poster session on Day 1 on Spatial Chat
- Oral Presentations on Day 2 on Zoom
- All student RA's and faculty research mentors should attend the entire symposium

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## Proposed Time slots for Sessions

Need two hour slots on each day when all RA's and faculty mentors attend

### **POSTER SESSION**

April 7 (Wednesday)

3:30 PM - 5:30 PM

4 PM - 6 PM

4:30 PM - 6:30 PM

5 PM - 7 PM

### **ORAL PRESENTATION**

April 8 (Thursday)

3:30 PM - 5:30 PM

4 PM - 6 PM

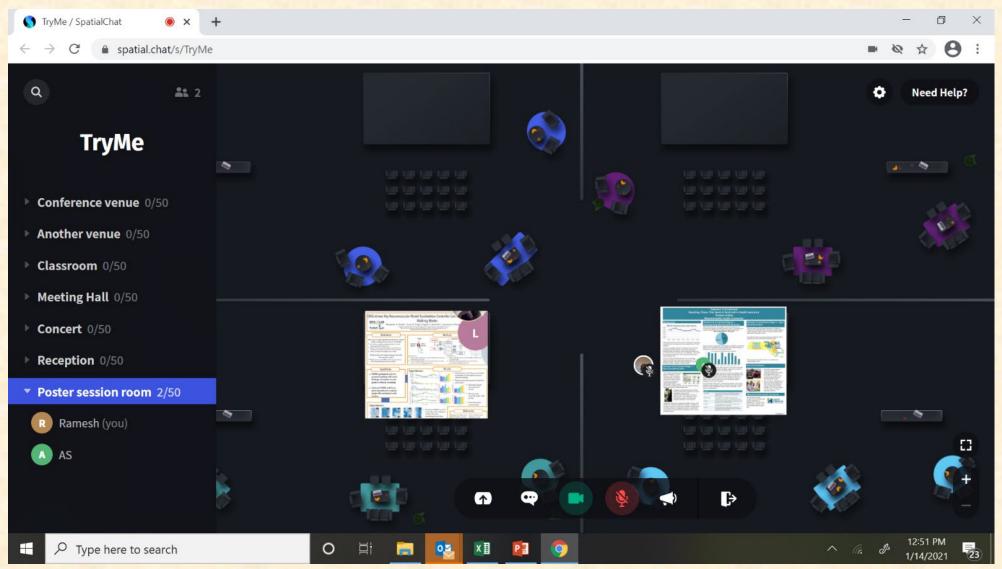
4:30 PM - 6:30 PM

5 PM - 7 PM





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### **TryMe**

- Conference venue 0/50
- Another venue 0/50
- Classroom 0/50
- ▶ Meeting Hall 0/50
- Concert 0/50
- Reception 0/50
- **▼ Poster session room** 2/50
- Ramesh (you)

AS



## 008-2014 Uninsurance Rate in Massachusetts

in the last 6 years the unincorance rate has remained near 4% of the

In order to successfully decrease the uninsurance rate in the state Massachusetts Health Connector\* should focus outreach and enrollment efforts on both those who are uninsured and those who are insured but need to re-enroll into a new health plan. Unless those who are insured re-enroll, they will be uninsured after the end of Open Eurollment 2015.

For the 2015 Open Enrollment the focus was on re-enrolling individuals and families in health insurance plans since 7% of population (slightly under half a million individuals) were cur insured but needed to reapply for health insurance.

#### Outreach & Enrollment Stage 1 -Open Enrollment 2015

The 2015 Open Enrollment period nan from November 1, 2014 to February 15, 2015. During this period individuals and families could enroll in health inversee. To encourage enrollment in a health insurance plan the nearth insurance plan the
Massachusetts Health Connector



sent out notices regularly to those who were currently insured but oded to re-earoll in a health insurance plan.

omector plarned and participated in a number f earollment events to assist adividuals and families apply and enroll in ealth insurance. Patrice Bergeron, famous Soston Bruins hockey ster, promoted and stended an euroliment event in Boston.

Furthermore, during Open Enrollment the Health Connector staff' worked with Navigator organizations (Navigators are grantees of the Health Connector who work in the community ourolling people into health insurance) and Application Assisters to ensure that as many people as possible submitted an application and re-enrolled in health insurance.

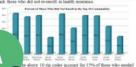
#### Inderstanding Who Did Not Re-Enroll

While Open Enrollment was considered successful overall with over 400,000 people signing up for health insurance, of the 440,000 people who needed to re-enroll swip 45% re-enrolled in a health insurance plan.

Percent that Did Not Re-enroll



The next step was to understand who the people were that did not enroll and identify ways to strengthen the current outreach and enrollment strategy to



erances of those who did not re-enroll were reflective of the

geographic locations in which people lived. Despite early hypotheses that those who did not re-enroll were non-English speakers, the data shows different with 50% of those who did not re-euroll speaking English. It appears that the common factor across those who did not re-enroll is geographic location and not language.

One of the barriers that may have caused large percentages of the insured population in these geographic areas not to re-enroll was a lack of Health Connector assister organizations in many of these communities. Other barrier are outlined below:

Berriers	Barriers		
Technology	Some consumers do not have email addresses which are necessary to start and complete as online application for health insurance.		
Health Literacy	Many people do not understand terms like promises, deductible, co-pay, co-insurance or maximum set of pool		
Lintsey	Example: The Cape Verdean intrigrant population has a general literacy rate in Massachusetts		
Language	The ordina application is only available in linguish with a		

**Need Help?** specific geographic regions f

should focus on for the 2016 Open Enrollment period



This can be done in a number of ways as is outlined in the







The Health Connector needs to develop partnerships with community organizations and faith based organizations in these

communities to strengthen future

#### \*Massachusetts Health Connector

The Massachusetts Health Connector is the state based health insurance marketolace in Massachusetts. It runs the state's sells subsidized health insurance



























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## Cohort Roster (1 of 5)

Aram Khachatourians			
Armando	Briseno	F-2	
Ashley	Frisch	F-4	
Cristina	Rubalcava	T-4	
Garabed	Simitian	F-3	
Henry	Reed	F-2	
Jason	Marroquin	F-4	
Fatima	Serrato	F-3	
Kathleen	Molina	F-3	
Lesly	Custodio	T-4	
Levi	Velasquez	F-2	
Adrian	Santamaria	T-5	
Daniela	Sanchez	T-5	
Heather	Reyes	T-5	
Matthew	Awad	T-5	
Matthew	Culajay	T-5	

Behzad Bavarian		
Anthony	De Leon	T-4
Christopher	Villalpando	T-3
Daniel	Olvera	T-3
Emilio	Aguilar	T-4
Meroujan	Bagdadian	T-5
Jasmin	Ortiz	T-5
Stefany	Fuentes Melgar	T-5
Verania	Ceja Franco	F-2
Steve	Gonzalez	T-5

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## Cohort Roster (2 of 5)

John Valdovinos		
Alan	Cruz	F-2
Armando	Herrera	F-2
Bryan	Lam	F-3
Alyssa	Tompkins-Webb	T-5
Francisco	Ramos	T-4
Jozsef	Feher	T-5
Kyle	Rietta	T-3
Nuelbella	Sandoval	F-3
Jessica	Frederich	T-5
Rojelio	Bejar	T-4
Luis	Ochoa	T-5
Maria	Zinkewich	T-5
Robert	Salone	T-5

Kyle Dewey		
Briana	Pimentel	F-3
Diego	Barreto	T-3
Eileen	Quiroz	F-2
Emmanuel	Galindo Cisneros	F-3
Fernando	Vargas	F-3
Isaiah	Martinez	F-3
Jennifer	Glover	T-4
Josue	Vega	T-3
Kavya	Manohar	F-2
Miguel	Hernandez	F-4
Mimi	Schirm	T-4
Rocio	Zavala	F-2
Samantha	Ramirez	F-4
Samuel	Ochoa	F-1
Victor	Pineda	T-3
Hanna	Zelaya	F-1





# Cohort Roster (3 of 5)

Bingbing Li		
Abraham	Meiszner	T-4
Andy	Sanchez	F-3
Anthony	Vasquez	F-3
Christian	Mariscal	F-1
Eswin	Amaya	F-3
Andrew	Ramirez	T-5
Deion	Shallenberger	T-5
Jason	Kim	F-3
Gerardo	Baron Diaz	T-5
Randy	Herrera	T-5
Tomothy	Tran	T-5
Megan	Ngo	F-3
Noe	Diaz	T-4

Bruno Osorno		
Beatriz	Acuna	F-1
Albert	Rivas	T-5
Erica	Garcia	F-4
Fernando	Landeros	F-3
Cesar	Villa	T-5
Damien	Lopez	T-5
Hector	Mata	T-4
Faizan	Hussain	T-5
Jessirae	Bufford	T-5
John	Dizon	T-4
Jose	Cervantes	F-3
Joshua	Salas	F-4
Yolanda	Camarena	T-5
Samuel	Garza	T-3





# Cohort Roster (4 of 5)

Ruting Jia		
Areesha	Hussain	F-4
Frank Joseph	Serdenia	T-4
George	Lopez	F-4
Jairo	Zelaya	T-4
Jake	Lyon	T-3
Joshua	Alvarado	F-4
Kaylee	Pham	T-4
Lousia	Manoael	T-4
Meyer	Millman	F-3
Miles	Rodas	F-4
Pedro	Moran	F-4
Simran	Gill	T-4
Tiffany-Ziba	Haghighi	F-3
Kelvin	Martinez	T-5

Кау Нао		
Ezekiel	Castelo	T-5
Aaron	Palacios-Romero	T-3
Ariana	Oliva	T-5
Andrew	Langwald	F-2
Gerardo	Reyes	F-3
Peter	Messiha	F-3
Richard	Gomez	F-3
Alexander	Rivera	T-4
Elizabeth	Esquivel	T-4
Jennifer	De Avila	T-4
Kathleen	Lee	T-4
Richard	Rivas	T-4
Tracy	Albers	T-4





## Cohort Roster (5 of 5)

Ali Amini			
Alireza	Bahmanabadi	T-2	
Mehdi	Miri	T-5	
Ashley	Kuhnley	T-4	
Sabrina	Motto	T-5	
Elvis	Chino-Islas	F-3	
Gloria	Santamaria	T-4	
Kimberly	Ortiz	F-3	
Lavar	Watkins II	F-4	
Javier	Valle	T-5	
Mario	Giron	T-5	
Suzanne	Fisher	T-5	

Anwar Alroomi		
Alexis	Sierra	F-2
Leonard	Fitzpatrick	T-5
Oscar	Lopez Bahena	T-5
Debbie	Altamirano	T-4
Emmanuel	Ayala	T-3
Evelyn	Villalobos	T-4
Iris	Guerrero Morales	F-4
Jonathan	Salcedo-Manriquez	T-4
Juan	Espericueta	F-3
Luis	Flores	F-4
Mauricio	Rodriguez	T-3
Omar	Ponce	T-3
Teny	Shahjahanian	F-2
Marleny	Lopez	T-5

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