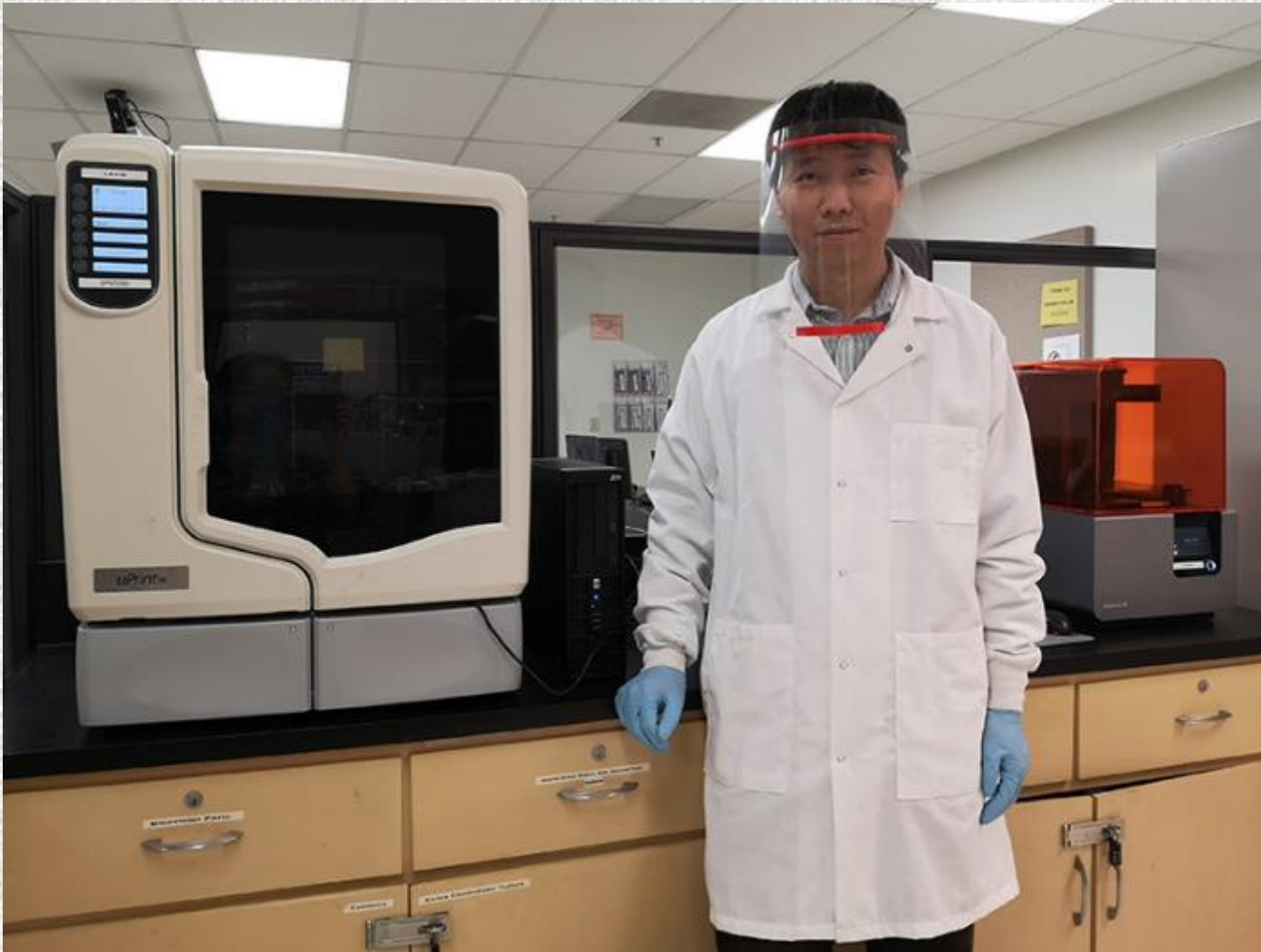


Welcome to AIMS²(HSI-STEM Grant) Meeting # 84



1 PM – 2:30 PM April 16, 2020



AGENDA

- Welcome and Information Items – Ramesh
- Meetings calendar for spring 2020
- Current plans for student research projects
- Supplemental award (AIMS2 Future Teachers in STEM) status update
- Project implementation and timelines – Susan Belgrad
- Project Assessment Update – Nathan Durdella



Meetings Calendar for Spring 2020

- ✓ *Jan 14th, 2020*
- ✓ *Feb 20th, 2020*
- ✓ *Mar 26th, 2020 (online)*
- ✓ *Apr 16th, 2020 (online)*
- ✓ *May 12th, 2020 (online)*
- ✓ *May 12th, 2020 meeting* – Recognition of graduating students –
Postponed
- ✓ *June 12, 2020– 12 Noon – 2 PM:* External Advisory Committee
Meeting (online)



AGENDA

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Summer research projects

- Given the current situation the traditional summer research program is postponed to the fall 2020 semester
- Deadlines will be announced as we get closer to the fall semester pending relaxation of 100 % virtual modalities
- These will be open to CC students who have been vetted to participate.
- Two faculty members (Prof. Osorno and Dewey) have proposed projects that can be performed virtually and these will commence in the summer and be available to CSUN cohort students. A mandatory virtual orientation will be scheduled for all participants at the end of May 2020
- The annual symposium is postponed to spring 2021. Note- all remaining CSUN RA's from Fall 19-Spring 20 are expected to participate



Summer 2020 virtual research projects

[CSUN](#) [AIMS² »](#) [Program Information »](#) [Student Resources »](#) [Mentor Resources »](#) [Staff Resources »](#) [Announcements »](#)

Student Resources

Research Internships

Summer 2020 Research Projects with CSUN Faculty Mentors

Project Title	Professor	Project Information
Battery Energy Storage Systems in Renewable Energy Systems	Prof. Bruno Osorno	Click here for information.
Adding Features to the Proteus Programming Language	Dr. Kyle Dewey	Click here for information.
Evaluating Test Suite Generation Techniques for Introductory Computer Science Assignments	Dr. Kyle Dewey	Click here for information.
Sentiment Analysis of Tweets	Dr. Kyle Dewey	Click here for information.

By way of example...

Research Duration:	Summer 2020 (June – August 2020)
Faculty:	Kyle Dewey
Email address:	kyle.dewey@csun.edu
Contact No:	JD 4419, x4316, Office hours via Zoom (email me times and personalized link)
Title of Project:	Sentiment Analysis of Tweets

•**Project Background:** In online social networking, there is often a need to perform moderation, be it by blocking particular posts, or potentially whole users. Due to the sheer quantity of posts and users, performing this moderation fully manually is often not feasible. To this end, we need automated tools which can assist human moderators. Towards assisting with this moderation, *sentiment analysis* is of great value. Sentiment analysis is used to automatically determine if a particular post displays a positive, negative, or neutral attitude.

•**Goals and Objectives of the Project:** The goal of this project is to build a sentiment analysis system for Twitter tweets. This system will utilize machine learning for this purpose. This system will be built in a stepwise fashion:

1. An appropriate *training set* will be identified, containing posts which have already been labelled with their given sentiment. This may involve using Twitter's API to load data.
2. A machine learning model will be trained on this training set, and will attempt to learn the patterns of positive/negative/neutral sentiment tweets.
3. We will then evaluate the model's performance, and potentially revisit the prior step as needed to make the model more robust.
4. Potentially, to enable moderators to easily use the model, we may embed it in a browser plugin which will dynamically display the sentiment of tweets viewed online.

- **Project Outcomes:** Students will gain hands-on experience working with machine learning and using related tools (e.g., scikit-learn, Keras, etc.). Depending on the project direction, students may also gain familiarity using web APIs, and writing browser plugins.
- **Expectations from Students:** Students will meet virtually via Zoom ~1 hour per week to learn necessary machine learning background and to provide project status. All communication will be via free software, namely Zoom (video), Slack (text), and GitHub (project management). Additional reading may be needed. Students will use Python, which is commonly used in machine learning. Incoming students must have taken at least a CS1 equivalent (e.g., CSUN's COMP 110/L). Prior Python experience is ideal, but not required. No prior experience with machine learning is necessary. Students must provide their own computer; no special software or hardware is needed. **After the project**, students are expected to make an oral presentation and present a poster at the AIMS² research symposium, tentatively in Spring 2021.



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WHO: Graduates of the AIMS² Program

WHAT: Return to CSUN for your Teaching Credential

WHY: We have ten scholarships (\$8,000 each); We are responding to a need to prepare more *E in STEM* teachers!

WHEN: Start January 2020, complete in 2 or 3 semesters

- We seek AIMS² graduates with a bachelor's degree who understand the power of mentoring, coaching and teaching students in elementary, middle and high schools.
- We offer a two-or three-semester pathway to acquiring the California Math/Science or Multiple Subject Credential and will provide scholarship funding to AIMS² candidates for the first-two semesters.
- Our credential programs, including student teaching placements, prepare you for teaching grade levels K-5 and/or 6-12.

Contact Dr. Susan Belgrad susan.belgrad@csun.edu for more information about applying to the program and the \$8,000 scholarship:

Apply to this link for K-5 Multiple Subject <https://www.csun.edu/eisner-education/credential-office/preliminary-multiple-subject-program-application>

Apply to this link for Single Subject Math/Science <https://www.csun.edu/eisner-education/credential-office/preliminary-single-subject-program-application>

Engineering graduates entering this program will also:

- Enjoy guided tours of the NASA Jet Propulsion Laboratory, the Discovery Cube Los Angeles (DCLA), and the LA Clean Tech Incubator (LACI)
- Serve as robotics club engineers with mentor teachers who lead robotics clubs throughout the Los Angeles area
- Participate in the Annual CSUN Rally in the Valley and STEAM Exposition in May

Visit the [CSU Northridge AIMS²](#) site today!

AIMS² Director: S.K. Ramesh (818) 677-7283

CSUN AIMS-FT²STEM Faculty - Susan Belgrad (818) 677-4901

Nathan Durdella (818) 677-5720

CSUN Department Chairs - Julie Gainsburg, Secondary Education (818) 677-2580

Mira Pak, Elementary Education (818) 677-2621

<http://www.ecs.csun.edu/aims2/wp-content/uploads/2019/11/AIMS2FT-STEM-LETTER.pdf>



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QED Study Design – for discussion

High Priority (3 Outcomes):

- Transfer-student retention in a STEM field major (6a/6.1)
- Transfer students on-track 3-year degree completion a STEM field degree (6b/6.2)
- Transfer-student degree completion (6c/6.3)

Medium Priority (2 Outcomes):

- Successful gateway course completion (1a/1.1)
- Good academic standing (1b/1.2)

Less than Medium Priority (2 Outcomes):

- First-year student retention in STEM field major (3b/3.2)
- First-year students on-track to complete a 4-year degree in a STEM field degree



AGENDA

- Supporting cohort students in the new virtual modalities
 - CSUN – Josefina
 - College of the Canyons – Amy Foote
 - Glendale Community College – Chris Herwerth, Marisela Canela, Freddy Saucedo
 - Moorpark College – Trevor Hess
 - LA Pierce College – Elizabeth Cheung



AIMS² Student Workshop –April 3

Recording

Participants (11)

Find a participant

- Ramesh (Me)
- Josefine Gudino (Host)
- 909 074 794
- Ashley Frisch
- Debbie
- Gloria Santamaría
- Jennifer De Aulia
- Levir Watkins
- Marcelo Carlos
- Samantha Ramirez
- Tracy

Motivation is not a switch. Motivation is a flow.
If you can create a self sustaining motivation engine,
you'll not only be able to find more meaning and purpose
in your life, but you'll be able to enjoy every minute of
what you're doing.

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Type here to search

04/16/20 1:44 PM 4/16/2020



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GLENDALE COMMUNITY COLLEGE

AIMS² 2019 - 2020



Glendale College AIMS2

- Six AIMS students attended SHPE National conference in Phoenix AZ Fall 2019
- Two Academic Counselors attended SHPE National conference
- AIMS students designed, conducted and supervised STEM workshops, including Dios De La Muertes celebration in Glendale City Community
- Four AIMS students attended Society of Women Engineers (SWE) Fall 2019
- Three Faculty and Academic Counselors attended SWE conference Fall 2019
- NASA Aerospace Scholars program
- Internship and job application support to Underprepared students with Industry partners
- Curriculum development, full C-ID descriptor approval for all Engineering Model Curriculum courses
- Academic Counselor Development for career education and engineering support
- Several previous GCC AIMS2 students successfully progressing at CSUN; mentoring and AIMS2 participation



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 - LA Pierce College – Elizabeth Cheung



Email from Scarlet Relle (Moorpark) – April 8

- Given the current situation, of course we ceased meeting in person, so the engineering project that the students were working on will not go forward for the remainder of this academic year—the drone project. But you would perhaps be interested in knowing that 6 of our AIMS students were heavily involved in the VEX Robotics competition this year (we had a team of 10), and our team achieved excellent results which included winning the Excellence award in VEX, ranking #2 in the regionals (second to USC), and of course qualifying for the World's VEX robotics competition. Of course, the VEX Worlds Robotics competition got cancelled as the whole world seems to have stopped, but we were very well positioned to do a great job at the Worlds! Our tutoring has always been on going, and now it has moved to online. So our tutoring of AIMS students with AIMS tutors is ongoing.



AGENDA

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DISCUSSION ITEMS

- CSUN Project services (Tutoring/Mentoring/Spring 20 RA's) – Ramesh
- Faculty Reports* – Faculty Mentors
- Adjourn

Spring 2020

First Name	Last Name	Email	Dept.	Courses
Jesus	Cruz	jesus.cruz.4@my.csun.edu	CHEM	Chem 100, 101, 102, 103, 104, 321, 333, 334
Haibert	Hatamain	Haibert.hatamian.405@my.csun.edu	ECE	ECE 480
Dhivya	Pushpa	dhivyapushpa.meganathan.276@my.csun.edu	CHEM/PHYS	PHYS 100, 220, 225, 227, 420; MATH 102, 105, 150, 250, 262, and 280
Zaid	Abdalkarim	zaid.abdalkarim.498@my.csun.edu	CS	CS 110, COMP 182 and COMP 122
Ashley	Kuhnley	ashley.kuhnley.474@my.csun.edu	EE	ECE 240 and 320; MSE 227 and 304
Snehi	Pachchigar	snehi.pachchigar.813@my.csun.edu	CS	Comp. 110, 182, 282 122, 322
Redhwan	Ahmed	redhwan.ahmed.359@my.csun.edu	CS	Comp. 110 and 182
Tracy	Albers	tracy.albers.97@my.csun.edu	CS	Comp. 380/L and Math 482
Gabriel	Gomez	gabriel.gomez.283@my.csun.edu	CE	ECE 320, ECE 450, Comp. 110 and 182 and MSE 304

04/16/20

AIMS(HSI-STEM Grant) Meeting
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Mentor Resources

Peer Mentors

	First Name	Last Name	Major	Cohort	Email address
	Cristobal	Barajas	Mechanical Engineering	T-3	cristobal.barajas.19@my.csun.edu
	Diego	Barreto	Mechanical Engineering	T-3	diego.barreto.604@my.csun.edu
	Froilan	Campos	Computer Science	T-1	froilan.campos.926@my.csun.edu
	Marcel	Carlos	Mechanical Engineering	T-2	marcelorodel.carlos.371@my.csun.edu
	Elvis	Chino-Isas	Computer Engineering	F-3	elvis.chinoislas.271@my.csun.edu
	Alan	Cruz	Mechanical Engineering	F-2	alan.cruz.758@my.csun.edu

3/24/2020

Peer Mentors

					
	Marian	Giron	Electrical Engineering	T-3	marian.giron.863@my.csun.edu
	Tiffany	Haghighi	Mechanical Engineering	F-3	tiffanyziba.haghighi.200@my.csun.edu
	Jake	Lyon	Computer Science	T-3	jake.lyon.375@my.csun.edu
	Christian	Mariscal	Mechanical Engineering	F-1	christian.mariscal.818@my.csun.edu
	Meyer	Millman	Computer Engineering	F-3	meyer.millman.40@my.csun.edu
	Jessica	Opinion	Civil Engineering	T-1	jessicalauren.opinion.413@my.csun.edu
	Aaron	Palacios-Romero	Mechanical Engineering	T-3	aaron.palaciosromero.91@my.csun.edu
	Eileen	Quiroz	Computer Science	F-2	eileen.quiroz.756@my.csun.edu
	Alexis	Siguenza	Computer Science	T-3	alexis.siguenza.540@my.csun.edu

	Garabed	Simitian	Mechanical Engineering	F-3	garabed.simitian.893@my.csun.edu
	Fernando	Vargas	Computer Science	F-3	fernando.vargas.56@my.csun.edu
	Josue	Vega	Computer Science	T-3	josue.vega.401@my.csun.edu

CSUN|AIMS²

Attract, Inspire, Mentor, and Support
Students



HSI STEM Grant Program

Contact Us

College of Engineering and
Computer Science

(818)677-4742
s.ramesh@csun.edu

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DISCUSSION ITEMS

- CSUN Project services (Tutoring/Mentoring/Spring 20 RA's) – Ramesh
- Faculty Reports* – Faculty Mentors
- Adjourn



Discussion/Action Items

- End of Year Cohort reports
- Spring 2020 Grades Due: **May 21, 2020**

Individual student

Reports/Composite Group

Reports due: May 29, 2020

Target date for stipend checks: June 15



AIMS² – Bridging the Gap

Student Success Record

Current Semester: _____

Name: _____ Student ID#: _____

Major: _____

Academic Progress:

Total number of units completed toward the degree: _____

Number of units currently enrolled in: _____ Passing? _____ (C or better? Or?)

Number of units planned for next semester: _____

Number of units left until graduation: _____ Anticipated graduation date: _____

Notes: _____

Program Participation:

Weekly group meeting participation: _____

1:1 Meeting with Faculty Mentor: _____

Research: _____

Tutoring: _____

Advising: _____

Mentoring: _____

Peer Mentoring: _____

Plans for Next Semester:

Faculty Mentor printed name

Faculty Mentor Signature

Date

AIMS² (HSI-STEM Grant)
2018-19 End of the Year Progress Update

1. Please report on the meetings with students in your assigned group. Provide specifics on each individual student, their progress, and challenges if any.

2. Please report on the status of your respective research projects. Provide specifics on the students involved (names), outcomes to date, and AIMS projects that you supervised during spring 2019. For your reference the list of all your projects can be found online at <http://www.ecs.csun.edu/aims2/student-resources/research-internships/>

<Fill in Name of Faculty Mentor>

End of the Year Progress Update Spring 2019

May 2019



Cohort Meetings (1 of 5)

Ali Amini

Freddy	Nunez	F-1
Luis	Rivera	F-2
Sopuruchukwu	Udeh	F-2
Elvis	Chino-Islas	F-3
Kimberly	Ortiz	F-3
Lavar	Watkins II	F-4
Kiran	Joshi	T-2
Francisco	Oropeza	T-2
Marian	Giron	T-3
Giovanni	Martinez	T-3
Ashley	Kuhnnley	T-4
Gloria	Santamaria	T-4
Alireza	Bahmanabadi	T-2

Anwar Alroomi

Alexis	Sierra	F-2
Teny	Shahjahanian	F-2
Juan	Espericueta	F-3
Luis	Flores	F-4
Iris	Guerrero Morales	F-4
Cristian	Gutierrez	T-2
Emmanuel	Ayala	T-3
Omar	Ponce	T-3
Mauricio	Rodriguez	T-3
Debbie	Altamirano	T-4
Evelyn	Villalobos	T-4
Ronaldo	Preciado	T-4
Jonathan	Salcedo-Manriquez	T-4



Cohort Meetings (2 of 5)

Aram Khachatourians

Armando	Briseno	F-2
Henry	Reed	F-2
Levi	Velasquez	F-2
Kathleen	Molina	F-3
Carolina	Siliezar	F-3
Garabed	Simitian	F-3
Joshua	Zuniga	F-4
Jason	Marroquin	F-4
Ashley	Frisch	F-4
Marcelo-Rodel	Carlos	T-2
Kareem	Asal	T-4
Cristina	Rubalcava	T-4
Lesly	Custodio	T-4

Behzad Bavarian

Ritchie	Zelaya	F-1
Verania	Ceja Franco	F-2
Benigno	Pedroza	F-3
Fatima	Serrato	F-3
Jayshawna	Jones	T-1
Ismael	Pablo	T-2
John	Morgan	T-2
Cristobal	Barajas	T-3
Marcello	San Agustin	T-3
Christopher	Villalpando	T-3
Daniel	Olvera	T-3
Emilio	Aguilar	T-4
Hugo	Garcia	T-4
Anthony	De Leon	T-4



Cohort Meetings (3 of 5)

Bingbing Li

Christian	Mariscal	F-1
Evelyn	Mendieta	F-2
Eswin	Amaya	F-3
Jason	Kim	F-3
Megan	Ngo	F-3
Andy	Sanchez	F-3
Anthony	Vasquez	F-3
Chase	Gould	T-2
Christopher	Cuellar	T-3
Maria	Martinez	T-3
Noe	Diaz	T-4
Abraham	Meiszner	T-4

Bruno Osorno

Beatriz	Acuna	F-1
Jose	Cervantes	F-3
Fernando	Landeros	F-3
Caesar	Albizures	F-4
Erica	Garcia	F-4
Joshua	Salas	F-4
Froilan	Campos	T-1
Samuel	Garza	T-3
Ashley	Mendoza	T-3
John	Dizon	T-4
Hector	Mata	T-4



Cohort Meetings (4 of 5)

John Valdovinos

Luis	Landeros	F-1
Alan	Cruz	F-2
Armando	Herrera	F-2
Rhani	Kahn	F-3
Bryan	Lam	F-3
Nuelbella	Sandoval	F-3
Christina	Seeholzer	T-2
Osmar	Estrada	T-3
Kyle	Rietta	T-3
Francisco	Ramos	T-4
Rogelio	Bejar	T-4

Kyle Dewey

Samuel	Ochoa	F-1
Eileen	Quiroz	F-2
Kavya	Manohar	F-2
Rocio	Zavala	F-2
Emmanuel	Galindo Cisneros	F-3
Isaiah	Martinez	F-3
Briana	Pimental	F-3
Fernando	Vargas	F-3
Samantha	Ramirez	F-4
Miguel	Hernandez	F-4
Angelica	Estrada	T-2
Diego	Barreto	T-3
Victor	Pineda	T-3
Alexis	Siguenza	T-3
Jennifer	Glover	T-4
Mimi	Schirm	T-4
Josue	Vega	T-3



Cohort Meetings (5 of 5)

Ruting Jia

Tiffany-Ziba	Haghighi	F-3
Meyer	Millman	F-3
Sebastian	Miranda	F-4
Areasha	Hussain	F-4
Miles	Rodas	F-4
Pedro	Moran	F-4
George	Lopez	F-4
Joshua	Alvarado	F-4
Jake	Lyon	T-3
Frank Joseph	Serdenia	T-4
Kaylee	Pham	T-4
Lousia	Manoael	T-4
Simran	Gill	T-4
Vicky	Ramirez Jauregui	T-4
Jairo	Zelaya	T-4

Kay Hao

Andrew	Langwald	F-2
Gerardo	Reyes	F-3
Richard	Gomez	F-3
Peter	Messiha	F-3
Jessica	Opinion	T-1
Roobina	Deravanesian	T-2
Aaron	Palacios-Romero	T-3
Alexander	Rivera	T-4
Elizabeth	Esquivel	T-4
Jennifer	De Avila	T-4
Tracy	Albers	T-4
Richard	Rivas	T-4
Kathleen	Lee	T-4



DISCUSSION ITEMS

- Faculty* Reports (fall 2019)
- Adjourn