



NOVEMBER 2016 / [nsm.fullerton.edu](http://nsm.fullerton.edu)

College of NSM: Office of the Dean

Dean

Dr. Marie Johnson  
[mariejohnson@fullerton.edu](mailto:mariejohnson@fullerton.edu)

Associate Dean

Dr. Mark Filowitz  
[mfilowitz@fullerton.edu](mailto:mfilowitz@fullerton.edu)

Assistant Dean for Student Affairs

Dr. Colleen McDonough  
[cmdonough@fullerton.edu](mailto:cmdonough@fullerton.edu)  
MH 488 (657) 278-4158

Department of Biological Science

MH-282 (657) 278-3614  
Dr. Sean Walker, Chair  
[swalker@fullerton.edu](mailto:swalker@fullerton.edu)

Department of Chemistry &  
Biochemistry

MH-580 (657) 278-3621  
Dr. Peter de Lijser, Chair  
[pdelisjer@fullerton.edu](mailto:pdelisjer@fullerton.edu)

Department of Geological Sciences

MH-254 (657) 278-3882  
Dr. Phil Armstrong, Chair  
[parmstrong@fullerton.edu](mailto:parmstrong@fullerton.edu)

Department of Mathematics

MH-154 (657) 278-3631  
Dr. Stephen Goode, Chair  
[sgoode@fullerton.edu](mailto:sgoode@fullerton.edu)

Department of Physics

MH-611 (657) 278-3366  
Dr. Jim Feagin, Chair  
[jfeagin@fullerton.edu](mailto:jfeagin@fullerton.edu)

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## Chemist Focuses Research on Interactions of Molecules

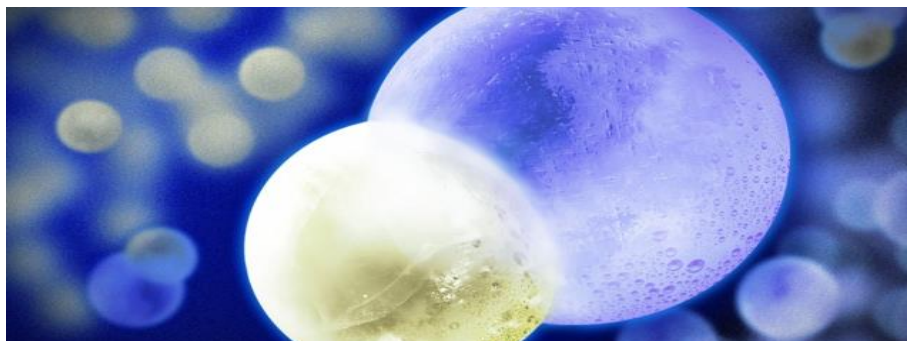


Michael Groves, assistant professor of chemistry and biochemistry joined Cal State Fullerton this fall.

Following his postdoctoral fellowship at Aarhus University in Denmark, Michael Groves began his teaching career at Cal State Fullerton this fall. Groves, an assistant professor of chemistry and biochemistry, has authored 20 peer-reviewed publications, contributed to the development of an online education portal and holds a patent related to the environmentally-friendly fabrication of very small chemical reactors.

Groves received the prestigious Governor General of Canada's Academic Gold Medal for his doctoral studies and earned his Ph.D. in chemical and material engineering from the Royal Military College of Canada. He holds a master's degree in physics from Queen's University and a bachelor's degree in physics from the University of British Columbia.

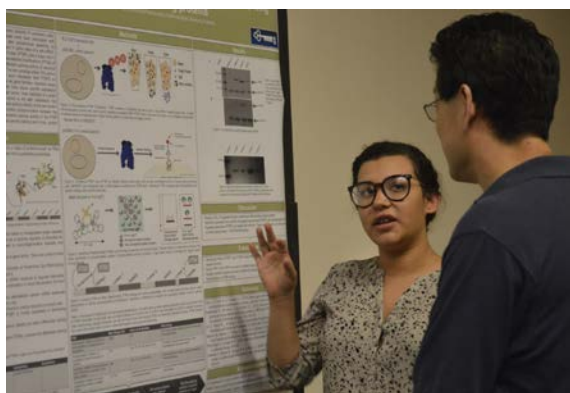
See more at: <http://news.fullerton.edu/2016fa/michael-groves.aspx>



# SCCUR

## Southern California Conferences for Undergraduate Research

NSM students at the Southern California Conferences for Undergraduate Research (SCCUR) held at the University of California, Riverside on Nov. 12, 2016.



Janice Reynaga (Biochemistry) shares her research from Dr. Keppetipola's research lab.



Martin Amezcua, Morcos Hanna, Thanh Lien, Sandra Rodriguez Beltran, Giovanna Cano, Ricardo Cruz, Alejandro Torres.  
Salzameda Lab



Saul Lopez (Mathematics) shares his research with Dr. Dickson. (Biological Science).



Back row (left to right):  
Monna Tabarani, Stephany Kdeiss, Ellen Chang, Edgar Valdez,  
Grant Schumaker, Stephany Angarita  
Front row (left to right):  
Nhu Vu, Linda Pham, Steven Saric, Tilly Duong



## NSM in the News

### Geology

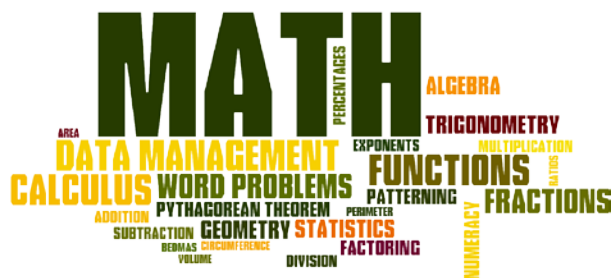
In late October, students working with Dr. James Parham presented original research at the Society of Vertebrate Paleontology annual meeting in Salt Lake City, Utah. Their presentations included research on Cooper Center fossils including fossils walruses, seals, and other species from Orange County. Recent graduate Adrian Garibay presented on a new fossil seal from Laguna Niguel based on specimens from the Cooper Center. Undergraduates Isaac Magallanes and Shooka Shahbazi presented on fossil walruses from the East Pacific based on specimens from the Cooper Center and the Smithsonian. Graduate student Jake Biewer presented on some of his undergraduate work on fossils from Central California. Finally, graduate student Gabriel Santos presented on fossils of 6-7 million year old marine and terrestrial species in Orange County based on specimens from the Cooper Center and Natural History Museum of Los Angeles, (NHMLA).



## Publications and Presentations

### Math

Dr. Al Agnew's student, Michael Guerry, presented his research on the "Derived Sets of the Biquaternionic Projective Point" at the Southern California Conference on Undergraduate Research held November 12 at UC Riverside. Michael and Dr. Agnes represent the Department of Mathematics and the NSM Gravitational Wave Physics and Astronomy Center.



### Chemistry & Biochemistry

**Dr. Michael Groves**, co-authored a paper on ACS Nano, "*Symmetry-Driven Band Gap Engineering in Hydrogen Functionalized Graphene.*"

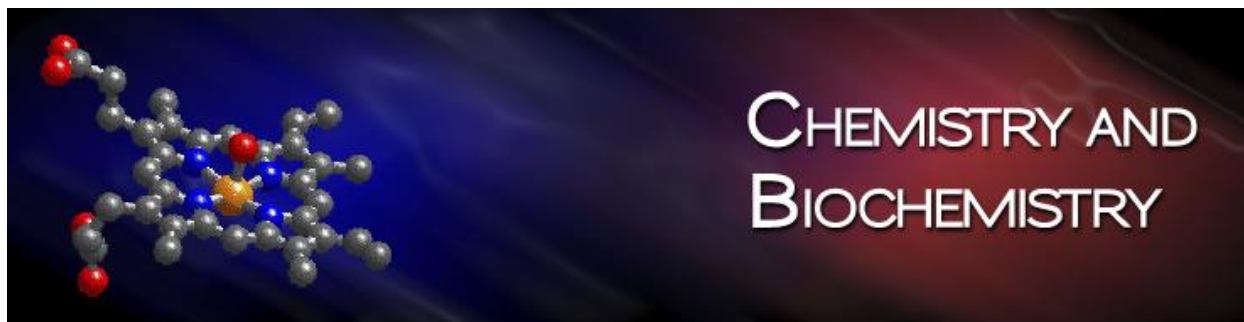
Jakob Holm Jørgensen, Antonija Grubišić Čabo, Richard Balog, Line Kyhl, **Michael N. Groves**, Andrew Martin Cassidy, Albert Bruix Marco Bianchi, Maciej Dendzik, Mohammad Alif Arman, Lutz Lammich†, José Ignacio Pascual‡, Jan Knudsen§ Bjørk Hammer†, Philip Hofmann†, and Liv Hornekaer. Department of Physics and Astronomy and Interdisciplinary Nanoscience Center iNANO, Aarhus University, Aarhus C DK-8000, Denmark

CIC nanoGUNE and Ikerbasque, Basque Foundation of Science, Donostia-San Sebastian 20018, Spain  
Division of Synchrotron Radiation Research and The MAX IV Laboratory, Lund University, Box 118, Lund 22100, Sweden ACS Nano, Article ASAP DOI: 10.1021/acsnano.6b04671

Publication Date (Web): November 9, 2016 Copyright © 2016 American Chemical Society

<http://pubs.acs.org/doi/abs/10.1021/acsnano.6b04671>

**Dr. Zhuangjie Li** gave an invited seminar presentation at Brigham Young University on 9/22/2016, and the title of his talk was: Gaseous phase kinetics studies using the RR/DF/MS technique: temperature and pressure dependence of OH + VOCs rate constants.

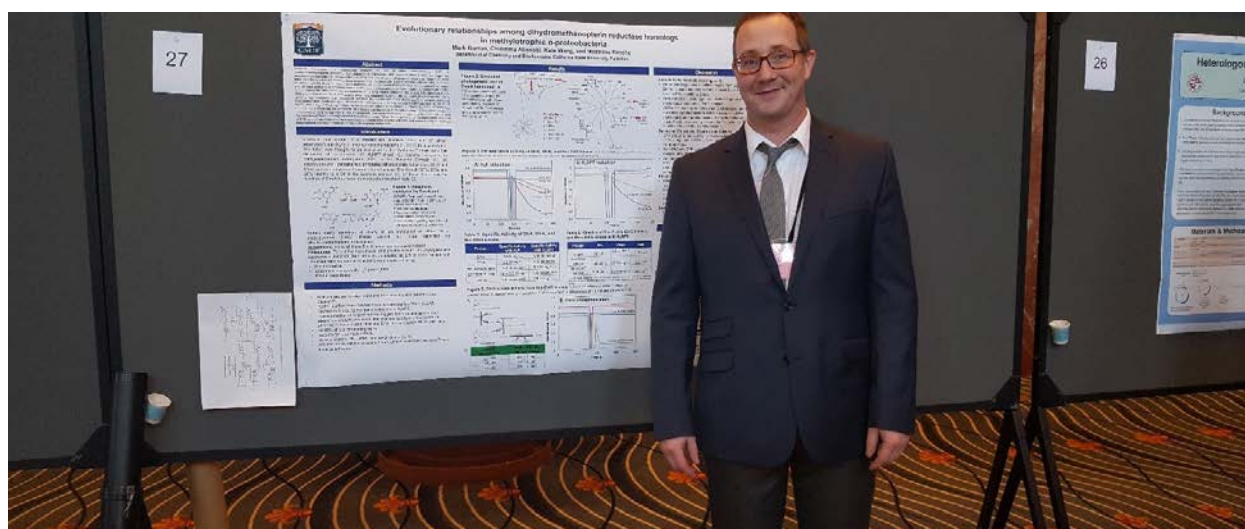




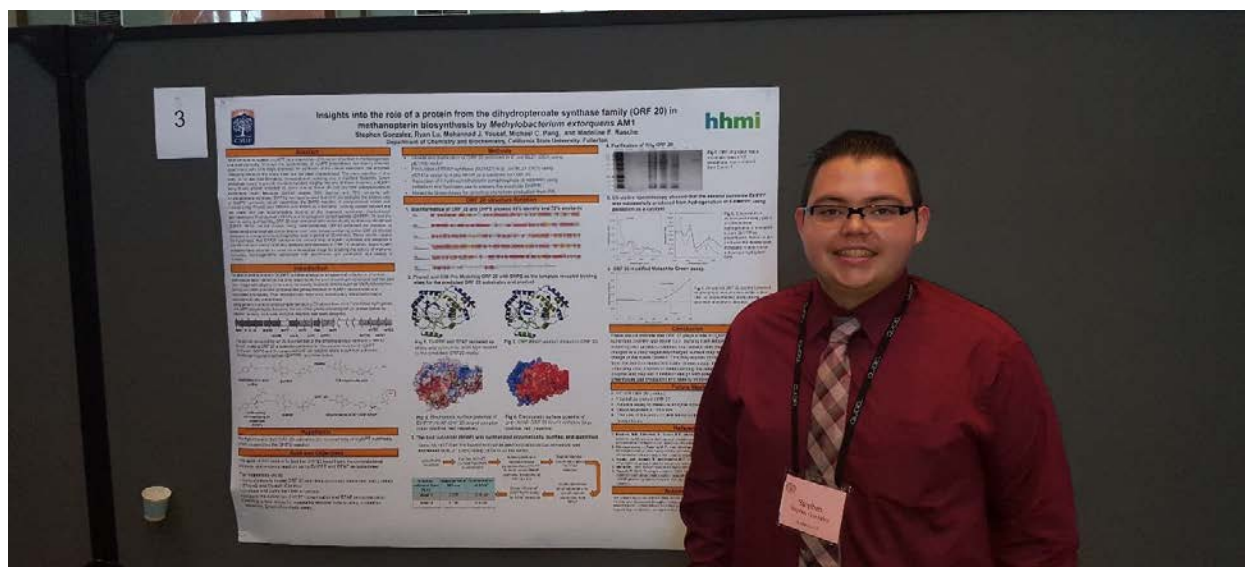
## Publications and Presentations

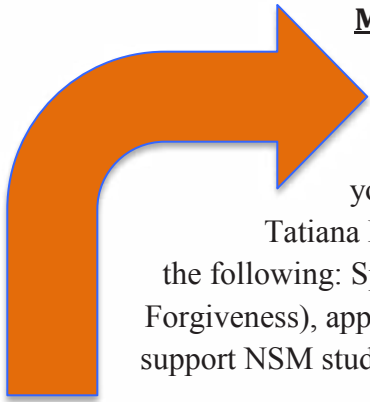
### Chemistry & Biochemistry

Dr. Madeline Rasche's graduate student Mark Burton represented the Chemistry and Biochemistry Department and CSUF College of Natural Sciences and Mathematics at two Southern California meetings in October. He presented his poster on "Evolutionary Relationships Among Dihydropyrimidinopyrimidine Reductase Homologs" at the first Center for Applied Biotechnology Studies Conference (CABScon) at CSUF on October 22, 2016 and at the 80th Annual Meeting of the Southern California American Society for Microbiology (SCASM) in La Jolla, California on October 29, 2016. Mark's presentation was an award-winner at the CABScon poster competition.



Biochemistry major Stephen Gonzalez traveled to the Southern California American Society for Microbiology meeting in La Jolla, California to present his research funded by the National Science Foundation and CSUF's Howard Hughes Medical Institute summer research internship program. Stephen's work in the Rasche lab describes a new biosynthetic protein in methane-producing microbes and has potential impact in the areas of agriculture, biomedicine, and the environment.





### Mid-Semester Drive-Thru Days

November 1 & 2 - Thank you to the 80 students who came out to the NSM Student Success Drive-Thru Days in the McCarthy Hall breezeway to meet your NSM Success Team of Advisors, Sam Barrozo, Retention Specialist, Tatiana Pedroza, Graduation Specialist, and Michelle Levy, Career Specialist, about the following: Spring 2016 registration, GEs, Academic Policies (i.e. Repeatable Units, Grade Forgiveness), applying for graduation, & career center resources. Remember, we are here to support NSM student success!

## COLLEGE OF NATURAL SCIENCES & MATHEMATICS

### RETENTION & GRADUATION SPECIALISTS

YOUR PARTNERS FOR NSM STUDENT SUCCESS  
Mon-Fri 9am-5pm, McCarthy Hall 488

GE ADVISING  
GRADUATION REQUIREMENTS  
ACADEMIC PROBATION  
STUDENT SUCCESS ADVISING

Appointments Available

For Freshman/Sophomore standing students (0-59 units): Email to sbarrozo@fullerton.edu and you can set up an appointment with Sam, the Retention Specialist. Walk-Ins Welcome.

For Junior/Senior standing students (60+ units): Go online to <https://nsmgradspecialist.youcanbook.me> and you can set up an appointment with Tatiana, the Graduation Specialist.

You will receive an email confirming your appointment.



SAM BARROZO  
RETENTION SPECIALIST



TATIANA PEDROZA  
GRADUATION SPECIALIST

## CAREER CENTER



### TITAN CONNECTION



Titan Connection is your one stop shop to look for on campus, full/part time, internship and research positions available to Cal State Fullerton students and view/register for Career Center workshops and events.

Go to ([www.fullerton.edu/career](http://www.fullerton.edu/career)) and click on “Students” and then “Jobs & Internships” to get started.

Check out the below positions (and even more) on Titan Connection today!

- Emergency Medical Technician at Care Ambulance Services, Inc, Titan ID: 137607
- Lab Technician at Ultimate Staffing Services, Titan ID: 137401
- Laboratory Analyst/ Research Assistant Internship at PACE Advanced Water Engineering, Titan ID: 137288
- Coroner’s Division Intern at OC Sheriff Coroner, Titan ID: 103798
- Forensic Science Intern at OC Crime Lab, Titan ID: 67567
- Medical Assistant/Front Office at Dr. Mohammad Shakfeh, Titan ID: 136595
- Business Intelligence/Data Analytics Intern at American First Credit Union, Titan ID: 13652

### NSM DROP IN HOURS

Tuesday: 11:00am – 12:30 pm, Opportunity Center MH488

Visit the Opportunity Center to meet with Michelle Ajemian Levy, NSM College Career Specialist, for a quick 10 minute walk in appointment. Topics can include but are not limited to résumé and cover letter review, starting your Statement of Purpose, exploring graduate and professional school, quick job search and interview help, and referrals for additional resources.

### CAREER CENTER HOURS

Need help applying to graduate school, summer research experiences or internships? The Career Center is open Monday – Friday from 8am – 5pm until Friday, December 23rd and returning on Tuesday, January 3rd. The Career Center will also be open during inter-session. To make an appointment call 657.278.3121 or email Michelle Levy ([milevy@fullerton.edu](mailto:milevy@fullerton.edu)).



- Major/Career Exploration
- Graduate and Professional School Preparation/Exploration
- Statement of Purpose
- Interview Preparation-Mock Interviews
- Resume/CV and Cover Letter Review
- Job/Internship Search Strategies
- LinkedIn Set Up and Profile Review



# STUDENT SUCCESS CENTER

OPPORTUNITY CENTER FOR SCIENCE AND MATHEMATICS STUDENTS



McCARTHY HALL 488

(657) 278-7082

FACILITATING SUCCESS FOR STUDENTS IN THE SCIENCES AND MATHEMATICS

## FALL 2016 TUTOR SCHEDULE

SCHEDULE IS TENTATIVE AND IS SUBJECT TO CHANGE WITHOUT NOTICE.

	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
<b>8:00AM - 8:30AM</b>	Gordon, Collin, Loi	Gordon, Loi	Gordon, Loi	Loi	<b>N O T U T O R I N G</b>
8:30AM - 9:00AM	Gordon, Collin, Loi	Gordon, Loi	Gordon, Loi	Loi	
<b>9:00AM - 9:30AM</b>	Gordon, Collin, Loi	Gordon, <b>Kimberly</b> , Loi	Gordon, Loi	<b>Kimberly</b> , Loi, Phylis	
9:30AM - 10:00AM	Gordon, Collin, Loi	Gordon, Kimberly, Loi	Gordon, Loi	Kimberly, Loi, Phylis	
<b>10:00AM - 10:30AM</b>	Gordon, Collin, <b>Kimberly</b>	Gordon, Kimberly, Loi	Gordon, <b>Kimberly</b>	Kimberly, Loi, Phylis	
10:30AM - 11:00AM	Gordon, Collin, Kimberly	Gordon, Kimberly, Loi	Gordon, Kimberly	Kimberly, Loi, Phylis	
<b>11:00AM - 11:30AM</b>	Gordon, Kimberly	Gordon, Kimberly, Loi	Gordon, Kimberly	Kimberly, Loi, Phylis	
11:30AM - 12:00PM	Gordon, Kimberly	Gordon, Kimberly, Loi	Gordon, Kimberly	Kimberly, Loi, Phylis	
<b>12:00PM - 12:30PM</b>	Kimberly	Jorge, Kimberly	Kimberly	Kimberly, Paris, Phylis	
12:30PM - 1:00PM	Kimberly	Jorge, Paris, Brian	Kimberly	Paris, Phylis, Brian	
<b>1:00PM - 1:30PM</b>	Kimberly, Collin	Jorge, Paris, Brian	Kimberly, Collin	Jorge, Paris, Brian	
1:30PM - 2:00PM	Kimberly, Collin	Jorge, Paris, Brian	Kimberly, Collin	Jorge, Paris, Brian	
<b>2:00PM - 2:30PM</b>	Kimberly	Jorge, Brian, Paris, Susan	Kimberly	Jorge, Paris, Brian	
2:30PM - 3:00PM	Kimberly	Jorge, Brian, Paris, Susan	Kimberly	Jorge, Paris, Brian	
<b>3:00PM - 3:30PM</b>	Kimberly	Jorge, Brian, Susan	Kimberly	Jorge, Brian	
3:30PM - 4:00PM	Kimberly, Susan	Jorge, Brian, Susan	Susan	Jorge, Brian	
<b>4:00PM - 4:30PM</b>	Collin, Kimberly, Susan	Jorge, Marlene, Paris	Collin, Susan	Jorge, Marlene, Paris, Brian	
4:30PM - 5:00PM	Collin, Kimberly, Susan	Jorge, Marlene, Paris	Collin, Susan	Jorge, Marlene, Paris	
<b>5:00PM - 5:30PM</b>	Susan	Marlene, Paris	Susan	Marlene, Paris, Susan	
5:30PM - 6:00PM	Susan	Marlene, Paris	Susan	Marlene, Paris, Susan	
<b>6:00PM - 6:30PM</b>	Susan	Marlene, Paris	Susan	Marlene, Susan	
6:30PM - 7:00PM	Susan	Marlene	Susan	Marlene	

**OCSAMS  
Closed**

	BIOLOGY	CHEMISTRY	PHYSICS
BRIAN	101, 102, 151, 152	100, 115, 120 A/B, 123, 125, 301 A	101, 211
COLLIN	101, 102, 151, 202, 274	100, 115, 120 A/B, 123, 125, 301 A/B, 315, 421	101, 211, 212
GORDON*		100, 115, 120 A/B, 123, 125	101, 211, 212
JORGE		100, 115, 120 B, 125	101, 211, 212, 225, 226
KIMBERLY	101, 102, 151, 273	100, 120 A, 123, 301 A/B, 423 A	
LOI		100, 120 A/B, 123, 125, 301 A/B, 315, 325, 371 B	101, 227
MARLENE	101, 102, 151, 152, 273, 303	100, 115, 120 A/B, 123, 125, 301 A	101, 211
PARIS		100, 115, 120 A/B, 123, 125	101, 211, 212, 225, 226, 227
PHYLIS*			101, 211, 212, 225, 226
SUSAN	101, 102, 151, 152		

\*Volunteer (OLLI)

**BOLD TUTOR NAME** is available beginning last 15 minutes of half-hour block



## NSM CLUBS AND ORGANIZATIONS

[NSM.fullerton.edu/student-resources/get-involved](http://NSM.fullerton.edu/student-resources/get-involved)



Contact any of the organizations below to find out their meeting and activity information.

**American Medical Student Association (AMSA):** Is committed to improving health care and healthcare delivery to all people; promoting active improvement in medical education; involving its members in the social, moral and ethical obligations of the profession of medicine; assisting in the improvement and understanding of world health problems; contributing to the welfare of all pre-health professional students.

[AMSA@fullerton.edu](mailto:AMSA@fullerton.edu)

**Biology Graduate Club (BGSC):** Offers opportunities for association and interaction between students, faculty, and the administration of CSUF. [bgsc.csuf@gmail.com](mailto:bgsc.csuf@gmail.com)

**Chemistry and Biochemistry Club (CBC):** provides information pertaining to opportunities and careers with the fields of Chemistry and Biochemistry, familiarizes students with department opportunities, and conducts community outreach. [csuf.cbc@gmail.com](mailto:csuf.cbc@gmail.com)

**Geology Club:** Unites geology majors and others by providing related information and volunteer activities on and off campus. [geologyclub@fullerton.edu](mailto:geologyclub@fullerton.edu)

**Latino Medical Student Association Pre-Medical Latino - Undergraduate Society (LMSA PLUS):** For Anyone interested in medical school can join LMSA, you do not need to be of Latino/Latina heritage!

[lmsa.plus@exchange.fullerton.edu](mailto:lmsa.plus@exchange.fullerton.edu)

**Math Club:** Encourages students to start joint research projects with each Faculty and attend conferences nationwide for observation and / or presentation. [csufmathclub@gmail.com](mailto:csufmathclub@gmail.com)

**NSM Inter-club Council (NSM-ICC):** NSM clubs and students collaborates with each other and Associated Students (ASU) to provide events and travel funding to all NSM and CSUF students. The NSM – ICC organizes the NSM Symposium, Meet and Eat with the Deans and Chairs. [nsmicc.csuf@gmail.com](mailto:nsmicc.csuf@gmail.com)

**Physics Club:** organizes lectures from guest speakers as well as several events a year. All CSUF students are welcome. [Physicsclub.csuf@gmail.com](mailto:Physicsclub.csuf@gmail.com)

**SMART Girls Support Group (Sisters in Mathematics and Academic Relations in Teaching):** holds monthly meetings, study sessions, and provides access to advisors. Learn how to be successful in math courses, relate undergraduate courses to high school teaching connect to school tutoring in schools and networking. Males may join as associate members. [csufsmartgirls@gmail.com](mailto:csufsmartgirls@gmail.com)

**STEM Outreach Club:** Build a community with your peers. Form study-groups. Get involved in the community. Help promote science. And much more! ALL MAJORS WELCOME! [csufmentor1@gmail.com](mailto:csufmentor1@gmail.com).

**SUCCESS (Students United with Community Collaborators to Enhance Success in Science):** consist of students from all STEM disciplines who are interested in undergraduate research who collaborate together to hold workshops and events for CSUF students. [SUCCESSatCSUF@gmail.com](mailto:SUCCESSatCSUF@gmail.com)