ALBERTO A. RASCÓN, JR., PH.D.

Associate Professor – Biochemistry
Curriculum Vitae

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School of Molecular Sciences
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PROFESSIONAL EXPERIENCE

2023 -	***Associate Professor*** – SMS, Arizona State University. Research in my lab involves biochemical analysis of specific *Aedes aegypti* mosquito midgut serine proteases involved in blood meal protein digestion, salivary gland proteases, and proteases involved in eggshell melanization.
2019 - 2023	***Associate Professor*** (with tenure) – Dept. of Chemistry, San José State University (SJSU).
2013 - 2019	***Assistant Professor*** – Dept. of Chemistry, San José State University (SJSU)
2012 - 2013	***Volunteer Lecturer*** – Biochemistry, Dept. of Chemistry and Biochemistry, San Francisco State University (SFSU)
2011 - 2013	***Postdoctoral Scholar*** – NIH/NIGMS IRACDA Postdoctoral Scholar, Center for Discovery and Innovation in Parasitic Diseases, Dept. of Pathology, School of Medicine, University of California, San Francisco (UCSF) Research area: Parasite protease biochemistry Mentor: James H. McKerrow, Ph.D., M.D.

EDUCATION

PhD University of Arizona, Biochemistry — Dec. 2010
Dissertation: "Enzyme Kinetics and Biochemical Properties of Serine Proteases from the Midgut of the Dengue Mosquito, *Aedes aegypti*"
Advisor: Roger L. Miesfeld, Ph.D.

BS California State University, Bakersfield, Chemistry — June 2002
Concentration: Biochemistry

GRANT HISTORY

NIH – National Institute of General Medical Sciences (NIGMS). T34 Training Grant. "U-RISE Program at San Jose State University." **Co-PI**, 4/01/23 - 3/31/28; **$1,875,363**.

NIH – National Institute of General Medical Sciences (NIGMS). 2SC3 GM116681-05. "Understanding the Functional Roles of Newly Identified Serine 'Orphan' Proteases and Two Chymotrypsins in the *Aedes aegypti* Midgut." **PI**, 4/15/21 - 3/31/24; **$430,107**.

W.M. Keck Foundation. "SJSU FIRES: Freshman Initiative for Research to Engage Students." **Co-PI**, 6/2018 - 7/2022; **$325,000**.

NIH – National Institute of General Medical Sciences (NIGMS). 1SC3 GM116681-01. "Vector Control Strategy Through Inhibition of *Aedes aegypti* Midgut Proteases." **PI**, 2/22/16 - 12/31/20; **$416,893**.

SJSU Faculty RSCA (Research, Scholarship & Creative Activity) Assigned Time Program Award. Release time (3 WTUs) per semester for each year of award. Sp 2019 - Sp 2024.

Completed Research Support: **National Science Foundation (NSF), Division of Biological Infrastructure.** DBI-1427465 "MRI: Acquisition of a Microscale Thermophoresis Instrument." **Co-PI**, 8/01/14 - 7/31/17; **$150,511**.

PUBLICATIONS

(SJSU student co-authors are underlined)

1. Simington, C.J., Oscherwitz, M.E., Peterson, A.J., **Rascón, A.A., Jr.**, Massani, B.B., Miesfeld, R.L., and Isoe, J. **(2020)** Characterization of essential eggshell proteins from *Aedes aegypti* mosquitoes. bioRxiv. https://doi.org/10.1101/2020.04.06.027706.

2. Isoe, J., Koch, L.E., Isoe, Y.E., **Rascón, A.A., Jr.**, Brown, H.E., Massani, B.B., and Miesfeld, R.L. **(2019)** Identification and characterization of the mosquito-specific eggshell organizing factor from *Aedes aegypti* mosquitoes. PLoS Biol. 17(1): e3000068.

3. Nguyen, J.T., Fong, J., Fong, D., Fong, T., Lucero, R.M., Gallimore, J.M., Burata, O.E., Parungao, K.A., and **Rascón, A.A. Jr.* (2018)** Soluble Expression of Recombinant Midgut Zymogen (Native Propeptide) Proteases from the *Aedes aegypti* Mosquito Utilizing E. coli as a Host. BMC Biochem.19(1). *Corresponding Author.

4. Long, T., Rojo-Arreola, L., Shi, D., El-Sakkary, N., Jarnigan, K., Rock, F., Mewan, M., **Rascón, A.A., Jr.**, Lin, L., Cunningham, K.A., Lemieux, G.A., Podust, L., Abagyan, R., Ashrafi, K., McKerrow, J.H., and Caffrey, C.R. **(2017)** Phenotypic, chemical and functional characterization of cyclic nucleotide phosphodiesterase 4 (PDE4) as a potential anthelmintic drug target. PLoS Negl. Trop. Dis. 11(7): e0005680.

5. Bulman, C.A., Bidlow, C.M., Lustigman, S., Cho-Ngwa, F., Williams, D., **Rascón, A.A., Jr.**, Tricoche, N., Samje, M., Bell, A., Suzuki, B., Lim, K.C., Rojo-Arreola, L., Supakorndej, N., Supakorndej, P., Wolfe, A., Chen, S., Wilson, C., Ang, K.H., Arkin, M., Franklin, C., Marcellino, C, McKerrow, J.H., Debnath, A., and Sakanari, J. **(2015)** FDA-Approved Auranofin as a Lead Candidate for Treatment of Lymphatic Filariasis and Onchocerciasis. PLoS Negl. Trop. Dis. 9(2): e0003534.

6. **Rascón, A.A., Jr.*** and McKerrow, J.H. **(2013)** Synthetic and Natural Protease Inhibitors Provide Insights into Parasite Development, Virulence, and Pathogenesis. Curr. Med. Chem. 20(25), 3078-3102. *Corresponding Author.

7. **Rascón, A.A., Jr.**, Gearin, J.J., Isoe, J., and Miesfeld, R.L. **(2011)** In vitro Activation and Enzyme Kinetic Analysis of Recombinant Midgut Serine Proteases from the Dengue Vector Mosquito *Aedes aegypti*. BMC Biochem. 12:43.

8. Isoe, J., **Rascón, A.A., Jr.**, Kunz, S., and Miesfeld, R.L. **(2009)** Molecular Genetic Analysis of Midgut Serine Proteases in *Aedes aegypti* Mosquitoes. Insect Biochem. Mol. Biol. 39(12), 903-912.

MENTORING

2023 - ***Principal Investigator (Biochemistry)*** **– School of Molecular Sciences, ASU**

The overarching goal of the lab is to delineate the biological functions and physiological substrates of *Aedes aegypti* mosquito proteases found in the midgut, the salivary glands, and in the mosquito ovary. Understanding the roles of these proteolytic enzymes may help determine their role in host protease viral interactions and viral pathogen transmission.

Current Ph.D. Research Students

1. Roberto Ramos (started August 2023)

Research Lab Coordinator

1. My Anh Le (started August 2023)

2013 - 2023. ***Principal Investigator (Biochemistry)*** **– Department of Chemistry, SJSU**

Research is focused on the biochemical study of *Aedes aegypti* mosquito proteases found in the midgut, the salivary glands, and in the mosquito ovary. Collaborative protease projects with the University of Arizona, UCSD, UCSF, and the New York Blood Center. As a former UCSF IRACDA fellow, I mentored postdoctoral fellows from the UCSF IRACDA program, and occasionally through the Counseling and Resources office at the School of Medicine (Stanford) and the UCSF MIND (Motivating INformed Decisions) Program.

Former M.S. Research Students

1. Diane Eilerts, Ph.D., Virginia Tech, Scientist I, Cortexyme, Inc. M.S., 2017.
2. James Nguyen, Ph.D., Univ. of Illinois-Urbana, Champaign. Postdoctoral fellow, University of Iowa. M.S., 2017.
3. Olive Burata, Ph.D. Candidate, Univ. of Michigan. M.S., 2018.
4. Rachael Lucero, Ph.D. Candidate, Univ. of Michigan. M.S., 2018.
5. Aditya Malekar, Research Associate, Ansa Biotechnologies, Inc. M.S., 2021.
6. Kenia Mejia-Escobar, Ph.D. program at the Univ. of Michigan. M.S., 2022.
7. Daisy Arroyo, Research Associate Scientist I, Vaxcyte, Inc.
8. Neomi Millan, Ph.D. program at the Univ. of Madison, Wisconsin. M.S. 2023.

Important note: All graduate students in the Department of Chemistry must complete a formal thesis and defense (including a formal seminar) for degree completion.

Former Undergraduate Research Students

1. Jonathan Fong, O.D. (Private Practice Optometrist); **2.** Radhakrishna Patel, O.D. (Private Practice Optometrist); **3.** Anh-Dai Nguyen (TBD); **4.** An-Frank Nguyen (Bay Area Biotech); **5.** Jamie Gallimore (Forensic DNA Analyst); **6.** Tejpal Kang, Pharm.D. (Pharmacist at Kaiser); **7.** Justin Tran, D.D.S. (Private Practice Dentist); **8.** Jennifer Le, Ph.D.* (Practical Teacher of Bioanalysis, Dept. of

Pharmacy, Univ. of Groningen); **9.** Duc Pham* (Dental School, UOP, San Francisco); **10.** Taylor McCann (Postdoc, Stanford); **11.** Joshua Garcia (Research Associate II, Alector); **12.** Eliza Vien, D.P.M. (Podiatric Medicine); **13.** Bharat Patel (LinkedIn Program Manager 2, Engineering); **14.** Alexia Perryman (NIH IRACDA Postdoc Fellow, UCSD); **15.** Jacob Hickey (Ph.D. Student, University of Houston); **16.** Rebecca (Becca) Spangler (Ph.D. Student, UC Santa Cruz); **17.** Kamille Parungao (Osteopathic Medical School Liberty University); **18.** Tracy Conner (M.S. Bioinformatics, SJSU); **19.** Alexis Venegas (Scientist, Horizon Discovery); **20.** Kingsley Okakpu (Ph.D. Program, UC Riverside); **21.** Timothy Fong (SJSU graduate); **22.** Anthony Nguyen** (Touro College of Dental Medicine); **23.** Lantz Bigay** (Dental School, UCSF); **24.** Daniel Fong (Fornia BioSolutions, Inc.); **25.** Sze Wan (Jo) Wong (Production Biochemist, List Biological Labs); **26.** My Anh Le (Tecan Genomics); **27.** Saira Montermoso (Ph.D. Program, Univ. of Pennsylvania); **28.** Kathy Lam** (M.S. Bioinformatics, SJSU); **29.** Ka Her (Labcyte, Inc.); **30.** Eric Aguilar (Ph.D. Student, Johns Hopkins); **31.** Jessica Dosanjh (Biotech Company Internship); **32.** Vanessa Aldaz (Industry); **33.** Roksana Kazemi** (Pharmacy School, UOP); **34.** Khanh (Kim) Tran (Biotech, Industry); **35.** Elizabeth Moreno (UCSF Dental School, Fall 2022); **36.** Muhammad Khan (applying to Medical school); **37.** Joyce Wu (Vaxcyte, Inc.); **38.** Liana Annable (Ph.D. Student, Northeastern Univ.)

* Co-research advisor with Dr. Daryl Eggers. ** Volunteer research student.

Student Presentations – *Students in my research lab have presented oral and poster presentations at various national and local conferences (student presenters underlined).*

1. Annable, L. and Rascón, A.A. Jr. *Aedes aegypti* Serine Protease I or *Ae. aegypti* Ntn Hydrolase? Recombinant Expression, Purification, and Specificity Assay Determination. 2022 Annual Biomedical Research Conference for Minority Students (ABRCMS), Anaheim, CA. Nov. 9th-12th, 2022. ***(Poster)***

2. Khan, M.* and Rascón, A.A. Jr. Mutagenesis and Recombinant Expression of *Aedes aegypti* Serine Protease I (AaSPI), a possible N-Terminal Nucleophile (Ntn) Hydrolase. 2021 35th Annual CSU Systemwide Student Research Competition (CSU SRC). ***(Oral Presentation)*** **Won first place in the Biological and Agricultural Sciences (Undergraduate) section.*

3. Khan, M.* and Rascón, A.A. Jr. Mutagenesis and Recombinant Expression of *Aedes aegypti* Serine Protease I (AaSPI), a possible N-Terminal Nucleophile (Ntn) Hydrolase. 2021 SJSU Research, Scholarship, and Creative Activity Competition. ***(Written and Oral Presentation)*** **Won first place and was selected to compete in the CSU Systemwide Student Research Competition (CSU SRC)*

4. Cancino, L. and Rascón, A.A. Jr. Recombinant Expression and Purification of Wild-type JHA15 from *Aedes aegypti*. 2020 Experimental Biology, San Diego, CA. April 4th-7th, 2020. ***(Poster)*** ***Important Note:*** Abstract was accepted, but conference cancelled due to COVID-19.

5. Millan, N., Tran, K. and Rascón, A.A. Jr. Recombinant Protease Expression, Purification, and Initial Kinetics of EK and Mutant *Aedes aegypti* Early Trypsin (AaET). 2019 Annual Biomedical Research Conference for Minority Students (ABRCMS), Anaheim, CA. Nov. 13th-16th, 2019. ***(Poster)***

6. Basco, A.Y.* and Rascón, A.A. Jr. Cloning and Recombinant Expression of a Salivary Gland Protease (SG-tSP3) from the *Aedes aegypti* Mosquito. 2018 Annual Biomedical Research Conference for Minority Students (ABRCMS), Indianapolis, IN. Nov. 14th-17th, 2018. ***(Poster)*** **Bio REU Travel Award Recipient from the Rocky Mountain Biological Laboratory.*

7. Le, M.A. and Rascón, A.A. Jr. Recombinant Expression and Purification of *Aedes aegypti* Serine Protease I Without Leader Sequence (AaSPI-NL). Annual ACS Northern California Undergraduate Research Symposium @ Mills College. April 28th, 2018. ***(Poster)***

8. Bigay, L.A., Nguyen, A., and Rascón, A.A. Jr. Soluble Recombinant Expression of a Salivary Gland Serine Protease (SG-tSP1) from the *Aedes aegypti* Mosquito. Annual ACS Northern California Undergraduate Research Symposium @ Mills College. April 28th, 2018. ***(Poster)***

9. Lam, K., Bigay, L.A., Nguyen, A., and Rascón, Jr., Recombinant Expression of an *Aedes aegypti* Mosquito Salivary Gland Protease (SG-tSP1) Cloned into the pET29b Vector. 14th Annual College of Science Student Research, SJSU. April 27th, 2018. ***(Poster)***

10. Le, M.A. and Rascón, A.A. Jr. Recombinant Expression and Purification of *Aedes aegypti* Serine Protease I Without Leader Sequence (AaSPI-NL). 14th Annual College of Science Student Research, SJSU. April 27th, 2018. ***(Poster)***

11. Bigay, L.A., Nguyen, A., and Rascón, A.A. Jr. Soluble Recombinant Expression of a Salivary Gland Serine Protease (SG-tSP1) from the *Aedes aegypti* Mosquito. 14th Annual College of Science Student Research, SJSU. April 27th, 2018. ***(Poster)***

12. Okakpu, O.K. and Rascón, A.A. Jr. Determination of Optimal Growth Conditions for the Soluble Expression of a Midgut Serine Protease (AaSPI) from the *Ae. aegypti* Viral Vector. 2017 Annual Biomedical Research Conference for Minority Students (ABRCMS), Phoenix, AZ. Nov. 1st-4th, 2017. ***(Poster)***

13. Montermoso, S. and Rascón, A.A. Jr. Protein Expression of Recombinant Cysteine Proteinase (EhCP1) from *Entamoeba histolytica*, a Human Amoeba Parasite. 29th Annual ACS Northern California Undergraduate Research Symposium, SJSU. May 6th, 2017. ***(Poster)***

14. Fong, D. and Rascón, A.A. Jr. Recombinant Protein Expression of Cysteine Proteinases (CPZ and CPL1) Involved in the Molting Development Stages of *Onchocerca volvulus* larvae, a Human Nematode Parasite. 29th Annual ACS Northern California Undergraduate Research Symposium, SJSU. May 6th, 2017. ***(Poster)***

15. Wang, S.W., Venegas, A. and Rascón, A.A. Jr. Cloning and Recombinant Expression of *Aedes aegypti* Serine Protease V (AaSPV), a Constantly Expressed Midgut Protease. 29th Annual ACS Northern California Undergraduate Research Symposium, SJSU. May 6th, 2017. ***(Poster)***

16. Parungao, K., Nguyen, J.T., and Rascón, A.A. Jr. Recombinant Expression, Purification, and Initial Kinetics of Wild-type and Mutant *Aedes aegypti* Midgut Serine Protease VII (AaSPVII). 29th Annual ACS Northern California Undergraduate Research Symposium, SJSU. May 6th, 2017. ***(Poster)***

17. Okakpu, O.K. and Rascón, A.A. Jr. Bacterial Recombinant Expression of *Ae. aegypti* Serine Protease I with an Enterokinase Pseudo Propeptide Region. 29th Annual ACS Northern California Undergraduate Research Symposium, SJSU. May 6th, 2017. ***(Poster)***

18. Montermoso, S. and Rascón, A.A. Jr. Protein Expression of Recombinant Cysteine Proteinase (EhCP1) from *Entamoeba histolytica*, a Human Amoeba Parasite. 13th Annual College of Science Student Research, SJSU. May 5th, 2017. ***(Poster)***

19. Fong, D. and Rascón, A.A. Jr. Recombinant Protein Expression of Cysteine Proteinases (CPZ and CPL1) Involved in the Molting Development Stages of *Onchocerca volvulus* larvae, a Human Nematode Parasite. 13th Annual College of Science Student Research, SJSU. May 5th, 2017. ***(Poster)***

20. Wang, S.W., Venegas, A. and Rascón, A.A. Jr. Cloning and Recombinant Expression of *Aedes aegypti* Serine Protease V (AaSPV), a Constantly Expressed Midgut Protease. 13th Annual College of Science Student Research, SJSU. May 5th, 2017. ***(Poster)***

21. Lucero, R.M.* and Rascón, A.A. Jr. *In vitro* Activation of Purified *Aedes aegypti* Mosquito Wild-Type Early Trypsin (AaET) Versus the Inactive AaET Mutant. 2017 American Society for Biochemistry and Molecular Biology (ASBMB) Annual Meeting, Chicago, IL. April 22nd-26th, 2017. ***(Poster)*** **ASBMB 2017 Graduate Travel Award recipient (ASBMB Minority Affairs Committee).*

22. Burata, O.* and Rascón, A.A. Jr. Purification and Kinetic Assays of Recombinant AaCHYMO from the *Aedes aegypti* Female Mosquito. 2017 American Society for Biochemistry and Molecular Biology (ASBMB) Annual Meeting, Chicago, IL. April 22nd-26th, 2017. ***(Poster)*** **ASBMB 2017 Graduate Travel Award recipient (ASBMB Minority Affairs Committee).*

23. Eilerts, D.* and Rascón, A.A. Jr. Site-Directed Mutagenesis of Recombinant Aedes aegypti Trypsin-like Serine Proteases II and IV (AaSPII and AaSPIV). 2017 American Society for Biochemistry and Molecular Biology (ASBMB) Annual Meeting, Chicago, IL. April 22nd-26th, 2017. ***(Poster)*** **ASBMB 2017 Graduate/Postdoctoral Travel Award recipient.*

24. Lucero, R.M. and Rascón, A.A. Jr. *In vitro* Activation of Purified *Aedes aegypti* Mosquito Wild-Type Early Trypsin (AaET) Versus the Inactive AaET Mutant. 253rd Annual American Chemical Society (ACS) National Meeting, San Francisco, CA. April 2nd-6th, 2017. ***(Poster)***

25. Burata, O. and Rascón, A.A. Jr. Purification and Kinetic Assays of Recombinant AaCHYMO from the *Aedes aegypti* Female Mosquito. 253rd Annual American Chemical Society (ACS) National Meeting, San Francisco, CA. April 2nd-6th, 2017. ***(Poster)***

26. Nguyen, J.T. and Rascón, A.A. Jr. *In vitro* Biochemical Studies of the Midgut Serine Protease AaSPVII of the Zika Vector *Aedes aegypti*. 253rd Annual American Chemical Society (ACS) National Meeting, San Francisco, CA. April 2nd-6th, 2017. ***(Poster)***

27. Fong, D. and Rascón, A.A. Jr. Protein Expression of Recombinant Cysteine Proteinase (EhCP1) from *Entamoeba histolytica*, a Human Amoeba Parasite. 12th Annual College of Science Student Research, SJSU. May 6th, 2016. ***(Poster)***

28. Eilerts, D. and Rascón, A.A. Jr. Recombinant Expression of Dengue Vector *Aedes aegypti* Trypsin-like Serine Proteases II and IV. 12th Annual College of Science Student Research, SJSU. May 6th, 2016. ***(Poster)***

29. Parungao, K. and Rascón, A.A. Jr. Recombinant Expression and Purification of *Aedes aegypti* Midgut Serine Protease VII (AaSPVII). 28th Annual ACS Northern California Undergraduate Research Symposium, St. Mary's College, Moraga, CA. April 30th, 2016. ***(Poster)***

30. Perryman, A., McCann, T. and Rascón, A.A. Jr. Recombinant Protein Expression of AaSPV from the Midgut of Arbovirus Vector *Aedes aegypti* Mosquito. 2016 Emerging Researchers National (ERN) Conference in STEM, Washington, D.C., Feb. 25th-27th, 2016. ***(Oral Presentation)***

31. Lucero, R., Burata, O. and Rascón, A.A. Jr. *In Vitro* Biochemical Studies of Wild Type and Mutant AaCHYMO from the Female *Aedes aegypti* Mosquito. 15th Annual Biomedical Research Conference for Minority Students (ABRCMS), Seattle, WA. Nov. 11th-14th, 2015. ***(Poster)***

32. Garcia, J. and Rascón, A.A. Jr. Isolation, Recombinant Protein Expression and Purification of *Aedes aegypti* Serine Protease I (AaSPI). 15th Annual Biomedical Research Conference for Minority Students (ABRCMS), Seattle, WA. Nov. 11th-14th, 2015. ***(Poster)***

33. Perryman, A., McCann, T. and Rascón, A.A. Jr. Recombinant Protein Expression of AaSPV from the Vector *Aedes aegypti* Mosquito. 15th Annual Biomedical Research Conference for Minority Students (ABRCMS), Seattle, WA. Nov. 11th-14th, 2015. ***(Poster)***

34. Kang, T., Vien, E. and Rascón, A.A. Jr. Bacterial Recombinant Protein Expression of AaSPVI Protease Gene from the female virus vector *Aedes aegypti* mosquito. 27th Annual ACS Northern California Undergraduate Research Symposium, University of California, Santa Cruz. May 9th, 2015. ***(Poster)***

35. Burata, O., Lucero, R. and Rascón, A.A. Jr. Recombinant Expression and Purification of Midgut Chymotrypsin (AaCHYMO) from the *Aedes aegypti* Mosquito. 27th Annual ACS Northern California Undergraduate Research Symposium, University of California, Santa Cruz. May 9th, 2015. ***(Poster)***

36. Gallimore, J. and Rascón, A.A. Jr. Mutagenic Recombinant Protein Expression of AaET from the Virus Vector *Aedes aegypti* Mosquito. 27th Annual ACS Northern California Undergraduate Research Symposium, University of California, Santa Cruz. May 9th, 2015. ***(Poster)***

37. Nguyen, J. and Rascón, A.A. Jr. Bacterial Recombinant Studies of Midgut Serine Protease AaSPVII from the Dengue Vector Mosquito *Aedes aegypti*. 27th Annual ACS Northern California Undergraduate Research Symposium, University of California, Santa Cruz. May 9th, 2015. ***(Oral Presentation)***

38. Patel, B., McCann, T. and Rascón, A.A. Jr. Characterization of Serine Collagenases from *Aedes aegypti* Mosquitoes. 27th Annual ACS Northern California Undergraduate Research Symposium, University of California, Santa Cruz. May 9th, 2015. ***(Oral Presentation)***

39. Kang, T. and Rascón, A.A. Jr. Bacterial Recombinant Protein Expression of AaSPVI Protease Gene from the female virus vector *Aedes aegypti* mosquito. 27th Annual CSU Biotechnology Symposium, Santa Clara Marriott. January 8th-10th, 2015. ***(Poster)***

40. Perryman, A., Lee, M. and Rascón, A.A. Jr. Recombinant Protein Expression of AaSPV from the Arbovirus Vector *Aedes aegypti* Mosquito. 27th Annual CSU Biotechnology Symposium, Santa Clara Marriott. January 8th-10th, 2015. ***(Poster)***

41. Gallimore, J. and Rascón, A.A. Jr. Recombinant Protein Expression of AaET from the Virus Vector *Aedes aegypti* Mosquito. 27th Annual CSU Biotechnology Symposium, Santa Clara Marriott. January 8th-10th, 2015. ***(Poster)***

42. Nguyen, A.D. and Rascón, A.A. Jr. Recombinant Bacterial Expression and In vitro Activity of Midgut Early Trypsin from the Female *Aedes aegypti* Mosquito. 26th Annual ACS Northern California Undergraduate Research Symposium, University of San Francisco, San Francisco, CA. May 3rd, 2014. ***(Poster)***

43. Nguyen, J. and Rascón, A.A. Jr. Protein Expression of Recombinant Midgut Serine Protease AaSPVII from the Dengue Vector Mosquito *Aedes aegypti*. 26th Annual ACS Northern California Undergraduate Research Symposium, University of San Francisco, San Francisco, CA. May 3rd, 2014. ***(Poster)***

44. Fong, J. and Rascón, A.A. Jr. Expression and Activity of Recombinant Midgut Serine Protease, AaLT, from the Dengue Fever Mosquito. 26th Annual ACS Northern California Undergraduate Research Symposium, University of San Francisco, San Francisco, CA. May 3rd, 2014. ***(Poster)***

45. Nguyen, J., Fong, J., Nguyen, A.D., and Rascón, A.A. Jr. Protein expression of Recombinant Midgut Serine Proteases from the Female *Aedes aegypti* Mosquito. Symposium for Research Students in Chemistry from Kyushu University Graduate School of Science, Japan and SJSU Chemistry Department, San José, CA. Feb 14th, 2014. **(*Oral Presentation)***

46. Perryman, A., Lee, M. and Rascón, A.A. Jr. Recombinant Protein Expression of AaSPV from the Arbovirus Vector *Aedes aegypti* Mosquito. Annual Biomedical Research Conference for Minority Students (ABRCMS), San Antonio, Texas. Nov. 12th – 15th, 2014. ***(Poster)***

Apr. - Jun. 2023. *Co-PI/Mentor* – **National Institutes of Health (NIH) Undergraduate Research Training Initiative for Student Enhancement (U*RISE) Program (T34).**

The NIH U*RISE program is dedicated in developing a diverse group of undergraduates who complete their bachelor's degree and transition to complete a research-focused biomedical higher degree (*e.g.*, PhD or MD/PhD). After restructuring of MARC and RISE programs by the NIH, SJSU and many PUI's lost the opportunity to support students through these programs. A new program specifically dedicated to PUI's and Master's level institutions was created. As Co-PI, my duties include assisting the Program Director in grant writing, future interviewing of students, recruitment, helping with seminars, practicing with students for presentations, accompanying students to conferences, among other duties. ***Please note:*** there are only two PI's on this grant, myself and a biological sciences faculty member.

2018 - 2023. *Co-PI and Research Mentor* – **SJSU FIRES: Freshman Initiative for Research to Engage Students.** *Students mentored:* Muhammad Khan, Joyce Wu, and Stephanie Nuñez.

The program is designed to attract students, early in their academic careers (first-year freshmen), to get them interested in research. Students are exposed to four different research streams, and based on their interests, have a chance to rotate in the given PI's research lab exposing them to the skills specialized to that lab. I provide the Molecular Biology stream in which students learn to analyze DNA sequences, set PCR experiments, learn plasmid DNA transformation and isolation, learn DNA agarose gel electrophoresis, as well as learn proper safety and lab notebook maintenance.

2017 - 2023. *Academic Advisor* – Advisor for Chemistry/Biochemistry Concentration Majors students with last names I - N in the Dept. of Chemistry. Advise students throughout the semester, providing guidance about courses in preparation for graduation. Approximately 35 students each semester.

2016 - 2023. *Faculty Mentor* – **National Science Foundation (NSF) Research by Undergraduates using Molecular Biology Applications (RUMBA) Program**. *Students mentored:* Nicole Mercado (Inter American University of Puerto Rico, Barranquitas, 2017); Natalia Pardo (Universidad Metropolitana, San Juan, PR, 2018); Alma Basco (University of Puerto Rico, Rio Piedras, 2018); Roberto Ramos (Oberlin College, Ohio, 2019); and Neomi Millan (SJSU, 2019).

The RUMBA program brings students from other universities for a 10-week research experience with research labs that have a molecular biology focus. Students conduct guided research in new or current mosquito protease projects in the lab and present their work in an end of summer research presentation and at a national conference.

2015 - 2018. *Faculty Mentor* – **Stanford-San José State University Institutional Research and Academic Career Development Award (IRACDA) Program.**

The IRACDA program supported postdoctoral fellows interested in teaching, research and supporting diversity in STEM fields. Partnered with Stanford, our campus provided the guided teaching mentoring experience that many scientists lack. As a former IRACDA fellow, I was involved with mentoring, giving invited lectures on pedagogy, and providing ideas and feedback for grant renewal.

2014 - 2023. *Co-Coordinator/Mentor* – **National Institutes of Health (NIH) Research Initiative for Scientific Enhancement (RISE) Program.** *Students mentored:* Vanessa Aldaz, Kingsley Okakpu, Elizabeth Moreno, Neomi Millan, and Giselle Martinez.

The NIH RISE program is dedicated in providing research opportunities to undergraduate students from underrepresented backgrounds in biomedical fields with the goal of encouraging and preparing them for biomedical graduate programs and research careers. ***I started as a Mentor in 2014, then as a Co-Coordinator in 2016***, my duties include assisting the Program Director in renewal grant review, interviewing students, recruitment, helping with seminars, practicing with students for presentations, accompanying students to conferences, among other duties.

2014 - 2021. *Faculty Mentor* – **National Institutes of Health (NIH) Maximizing Access to Research Careers (MARC) U*Star Program**. *Student mentored:* Alexia Perryman.

The goal of the NIH-funded Maximizing Access to Research Careers (MARC) U*Star Program is to provide training and encouragement for students from underrepresented minority groups majoring in the biomedical or behavioral sciences to apply to Ph.D. degree programs. I had the pleasure of hosting a MARC student and was involved with recruitment, helping with seminars, practicing with students for presentations, accompanying students to conferences, among other duties. ***Unfortunately, due to the restructuring by NIH, SJSU and other PUI's are no longer eligible for MARC programs.***

2014 - 2023. *Faculty Mentor* – **CSU-LSAMP Program**. *Students mentored:* Elizabeth Moreno, Eric Aguilar, Neomi Millan, Rachael Lucero, Joshua Garcia, and Stephanie Nuñez.

The CSU Louis Stokes Alliance for Minority Participation (CSU-LSAMP) program is a joint project between the National Science Foundation and the California State University. With over 250 science and engineering majors, the SJSU CSU-LSAMP is the fifth largest program in the CSU system. The goal of the program is to increase the participation of African Americans, Latinos, Pacific Islanders, and Native Americans in the fields of science, technology, engineering, and mathematics (STEM). In addition, CSU-LSAMP helps to increase the number of minority students admitted to graduate programs and obtain doctoral degrees in STEM.

PROFESSIONAL AFFILIATIONS

2021 - Present **Member** – American Chemical Society (ACS)

2017 - Present **Member** – American Society for Biochemistry and Molecular Biology (ASBMB)

2011 - Present **Affiliated Member** – Center for Discovery and Innovation in Parasitic Diseases at the University of California, San Diego (UCSD). I started as a member when the McKerrow lab was at UCSF and my affiliation continues with the Center at UCSD.

HONORS AND AWARDS

2022 **Nominated** – Robert Holland Jr. Award for Research Excellence and Contributions to Diversity, Equity and Inclusion from the Research Corporation for Science Advancement. ***Note:*** This award is Cottrell Scholar nominated and was nominated by a faculty member at Santa Clara University, Dr. Grace Stokes. *Not awrded.*

2021 **SJSU College of Science Award: Research with and Mentoring of Students**
Recognized by the COS in my work with mentoring and involving students in protease biochemistry research.

2020 **SJSU University Scholar**
The University Scholar series provides a unique opportunity to showcase the important research and scholarly activities of SJSU faculty. Scholars are chosen by the RSCA Advisory Council and the University Provost.

2011 - 2013 **NIH Institutional Research and Academic Development Award**
UCSF IRACDA Scholars in Science Program. A teaching/research fellowship funded through NIGMS.

2009 **University Scholar Achievement Rewards for College Scientists (ARCS) Scholarship**
University of Arizona

2008 **John Hostetter Biochemistry Scholarship**
University of Arizona

2007 **Outstanding Teaching Assistant**
Biochemistry Course (Bioc 462a)
Dept. of Biochemistry and Molecular Biophysics
University of Arizona

2005 - 2008 **NIH Minority Supplement to Promote Diversity in Health-Related Research**
University of Arizona

2004 - 2005 **NIH Initiative for Maximizing Student Diversity (IMSD) Fellowship**
University of Arizona

PRESENTATIONS AND PANELS

Oct. 19, 2022	**Invited Speaker** – California State University, Long Beach, Chemistry Dept. Seminar, Long Beach, CA **Title:** Uncovering the Roles of Midgut Proteases in the Blood Meal Protein Digestion System of the *Aedes aegypti* Mosquito
Feb. 24, 2022	**Panelist** – NIH Scientific Workforce Diversity Seminar Series. **Title:** Tracking Cohort Outcomes – Collecting Data on the Experiences of Faculty Members
Feb. 26, 2021	**Invited Speaker** – The Accidental Geographer: A Podcast with Vincent Del Casino, SJSU Provost Invited by the Provost with the goal of sharing my work on *Aedes aegypti* mosquitoes and my journey as first-generation minority scientist. SJSU Provost Podcast-ARascon
Nov. 18, 2020	**Panelist** – ASBMB Virtual Career Symposium 2020: Navigating Career Development and Building Resilience in Times of Unrest Part of a faculty panel talking about a career at a PUI institution with focus on research, teaching, and applications. *(Virtual Presentation)*
Oct. 26, 2020	**Panelist** – STEM Career Day at Gavilan College, Gilroy, CA Part of SJSU Faculty Panel talking about research opportunities and research training programs available to incoming transfer students. *(Virtual Presentation)*
Oct. 21, 2020	**Invited Speaker** – San José State University, University Scholar Series, San José, CA **Title:** A Quest to Control the Female Aedes aegypti Mosquito Population *(Virtual Presentation)* https://youtu.be/av-gHGjphJo
Jun. 26, 2020	**Invited Speaker** – University of California, San Diego Invited by the Anthony J. O'Donoghue and Conor Caffrey labs to present the work from the collaborative mosquito project with Dr. O'Donoghue. **Title:** Characterization of Mosquito Midgut Proteases (Virtual Presentation)
Feb 7, 2020	**Invited Speaker** – Sonoma State University, Chemistry Dept. Seminar, Rohnert Park, CA **Title:** Soluble Expression of Recombinant Midgut Proteases from *Aedes aegypti* with Auto-Catalytic Activity
Jan. 31, 2020	**Invited Speaker** – Santa Clara University, Chemistry Dept. Seminar, Santa Clara, CA **Title:** Soluble Expression of Recombinant Midgut Proteases from *Aedes* aegypti with Auto-Catalytic Activity
Sept. 6, 2019	**Invited Speaker** – California State University, Stanislaus, Chemistry Careers Club Seminar, Turlock, CA **Title:** Soluble Expression of Recombinant Midgut Proteases from *Aedes*

aegypti with Auto-Catalytic Activity

Aug. 19, 2019 **Panelist** – SJSU New Faculty Jumpstart Program
Part of a panelist of current SJSU faculty at different academic career stages available to provide advice and answer questions for new incoming SJSU first year faculty.

Mar. 22, 2019 **Invited Speaker** – California State University, Fresno, Chemistry Dept. Seminar, Fresno, CA
Title: Soluble Expression of Recombinant Midgut Proteases from *Aedes aegypti* with Auto-Catalytic Activity?
Special invitation as part of the M.S. Bridges to Doctorate program. Met with URM M.S. students to provide advice and answer career questions as a minority faculty scientist.

Jul. 19, 2018 **Invited Speaker** – Riverview High School English Language Development (ELD) Class. Career Day-type presentation sharing background and career trajectory for Non-native Spanish speaking students. Presentation in English, but translated to Spanish. Riverview High School, Bay Point, CA

Mar. 29, 2018 **Invited Speaker** – Riverview Middle School Career Day, Riverview Middle School, Bay Point, CA

May 19, 2017 **Invited Speaker** – Mathson Institute of Technology Career Day, Lee Mathson Middle School, San José, CA

Mar. 17, 2017 **Invited Speaker** – 2017 National Postdoctoral Association Annual Meeting, San Francisco, CA. Co-Presentation with Jessica Faupel-Badger (NIH Program Director), Edward Krug (Assoc. Dean for Post-Doctoral Affairs at the Medical University of South Carolina), and Noah Whiteman (UC Berkeley Assoc. Professor)
Title: Career Development: Learning from the NIGMS Institutional Research and Academic Career Development Award (IRACDA) Program

Mar. 16, 2017 **Invited Speaker** – SJSU/Stanford IRACDA Pedagogy Class, San José State University
Title: Using POGIL in the Classroom

Feb. 28, 2017 **Keynote Speaker** – SJSU Science Extravaganza hosted by The Society of Latino Engineers & Scientists

May 23, 2016 **Panelist** – Stanford Academia Panel, Stanford University, Palo Alto, CA
Note: Academic panel sharing SJSU faculty experience

May 9, 2016 **Invited Speaker** – SJSU/Stanford IRACDA Pedagogy Class, San José State University
Title: Using POGIL in the Classroom

Apr. 28, 2016 **Invited Speaker** – SJSU Student Association of the American Chemical Society Chemistry Club Recruitment Talk, San José State University

Title: Targeting *Aedes aegypti* Midgut Proteases as a Mosquito Control Strategy

Aug. 19, 2015 **Panelist** – UCSF Postdoc Alumni Panel, San Francisco, CA
Note: Academic panel sharing SJSU faculty experience

Apr. 17, 2015 **Invited Speaker** – Biotechnology Education and Research Institute (BERI) Faculty Meetings, San José State University
Title: Targeting *Aedes aegypti* Midgut Proteases as a Mosquito Control Strategy

Mar. 29, 2015 **Invited Speaker** – California State University, Fresno Chemistry Dept. Seminar, Fresno, CA
Title: Targeting *Aedes aegypti* Midgut Proteases as a Mosquito Control Strategy

Mar. 19, 2015 **Invited Speaker** – SJSU Collegial Conversation Presentation, San José State University
Title: Targeting *Aedes aegypti* Midgut Proteases as a Mosquito Control Strategy

Feb. 27, 2015 **Invited Speaker** – San Francisco State University Chemistry Dept. Seminar, San Francisco, CA
Title: Targeting *Aedes aegypti* Midgut Proteases as a Mosquito Control Strategy

Jan. 27, 2015 **Invited Speaker** – 83rd Annual MVCAC Symposium, Monterey, CA
Title: Targeting *Aedes aegypti* Midgut Proteases as a Mosquito Control Strategy

Sept. 19, 2014 **Invited Speaker** – Non-traditional path to Ph.D., Maximizing Access to Research Careers (MARC) U-STAR Program, San José State University

Jul. 7, 2014 **Panelist** - San Francisco State University Summer Research Program Career Panel, San Francisco, CA

Jan. 15, 2014 **Invited Speaker** – UCSF IMSD, ISIS, SACNAS Mixer hosted by the UCSF Postdocs and Career Development Office, San Francisco, CA

Nov. 19, 2013 **Invited Speaker** – American Society For Biochemistry and Molecular Biology Undergraduate Affiliate Network (ASBMB UAN) at SJSU Seminar, San José State University
Title: Targeting *Aedes aegypti* Midgut Proteases as a Mosquito Control Strategy

Oct. 11, 2013 **Invited Speaker** – Graduate School Preparation Seminar, LSAMP/NIH RISE Program, San José State University

Oct. 3, 2013 **Keynote Speaker** – Gladstone Scholarship Awards Ceremony, UCSF/Gladstone Institutes, San Francisco, CA

Sept. 10, 2013	**Invited Speaker** – SJSU Chemistry Department Seminar, San José State University **Title:** Targeting *Aedes aegypti* Midgut Proteases as a Mosquito Control Strategy

SCIENTIFIC MEETINGS & WORKSHOPS

Nov. 9 - 12, 2022	Accompanying SJSU students as a ***faculty mentor*** and ***co-coordinator*** of RISE. 2022 Annual Biomedical Research Conference for Minority Students (ABRCMS), Anaheim, CA
Sept. 23-25, 2022	**Attendee:** ASBMB MAC Annual Retreat, Bethesda, MD
Apr. 15, 2021	**Judge:** The University of Arizona Chemistry and Biochemistry Dept. Poster Virtual Fair
Nov. 30 - Dec. 1 2017	**Attendee:** 2017 NIH SCORE PI Meeting, National Institutes of Health, Bethesda, MD
Nov. 18 - 20, 2017	***Moderator & Attendee:*** The Southwest Conference on Transforming STEM Education in Hispanic Serving Institutions funded by the National Science Foundation, University of Arizona, Tucson, AZ
Nov. 1 - 4, 2017	Accompanied SJSU students as a ***faculty mentor*** and ***co-coordinator*** of RISE. 2017 Annual Biomedical Research Conference for Minority Students (ABRCMS), Phoenix, AZ
Jul. 27 - 28, 2017	***Workshop Coordinator:*** SJSU NIH RISE Research Techniques Workshop: *Recombinant Bacterial Protein Expression*, San Jose, CA Taught recombinant protein expression of two *Aedes aegypti* mosquito midgut proteases in bacteria, bacterial growth experiments, and SDS-PAGE analysis.
Jun. 18 - 21, 2017	***Attendee:*** 2017 Training, Workforce Development and Diversity (TWD) Program Directors' Meeting funded by the NIGMS (NIH), Baltimore, MD
Feb. 16, 2017	***Workshop Presenter:*** Fremont Middle School Teacher Development Workshop Hosted by the SJSU Green Ninja Project: Unit 4 Waste to Soil, Fremont, CA ***Title:*** The Cell
Nov. 9 - 12, 2016	***Judge*** and accompanied SJSU students as a faculty mentor. 2016 Annual Biomedical Research Conference for Minority Students (ABRCMS), Tampa, FL
Nov. 11 -14, 2015	***Judge*** and accompanied SJSU students as a faculty mentor. 2015 Annual Biomedical Research Conference for Minority Students (ABRCMS), Seattle, WA

July 16 - 17, 2015 ***Workshop Coordinator:*** SJSU NIH RISE Research Techniques Workshop: *Recombinant Bacterial Protein Expression*, San Jose, CA
Taught recombinant protein expression of two parasitic amoeba cysteine proteases in bacteria, bacterial growth experiments, and SDS-PAGE analysis.

July 15 - 16, 2014 ***Workshop Coordinator:*** SJSU NIH RISE Research Techniques Workshop: *Recombinant Bacterial Protein Expression*, San Jose, CA
Taught recombinant protein expression of a parasitic worm enzyme in bacteria, bacterial growth experiments, and SDS-PAGE analysis.

Apr. 5, 2014 ***Participant:*** American Society for Biochemistry and Molecular Biology (ASBMB) Workshop: *Designing Scientific Teaching Tools for BMB Education*, San Francisco State University, San Francisco, CA

Jun. 17 - 19, 2012 National IRACDA Conference, University of Pennsylvania, Philadelphia, PA
Poster Presentation: *Recombinant Protein Expression and Crystallization Studies of Two Protozoan Cathepsin Enzymes For the Development of Specific Inhibitors*

Apr. 22 - 25, 2012 Pacific Coast Protease Spring School, Temecula, CA
Oral Presentation: *Recombinant Protein Expression of EhCP1 and GlCP2, Two Protozoan Cathepsin-like Enzymes, for the Development of Specific Inhibitors*

Nov. 18 - 22, 2009 58th Annual American Society of Tropical Medicine and Hygiene, Washington, D.C.
Poster Presentation: *Biochemical Analysis of Blood Meal-Induced Proteases in Aedes aegypti Mosquitoes*

TEACHING EXPERIENCE

Chem 131B – Biochemistry Lab (Senior-level Majors Capstone Lab Course). ***Course description:*** A capstone course on advanced isolation techniques and enzyme methodology.

Chem 132L – Introductory Biochemistry Lab (Non-science Majors). ***Course Description:*** The laboratory work associated with chemistry of foods and nutrition, cellular metabolism, bio-macromolecules, vitamins and the structure of carbohydrates, lipids, proteins and nucleic acids is covered.

Chem 130B – Biochemistry II (Metabolism) (Upper Division for Majors Course). ***Course Description:*** Concepts of bioenergetics; biochemical pathways of degradation and synthesis; metabolic regulation.

Chem 234 – Enzymology (Master's Graduate Course). ***Course Description:*** Enzyme structure, function, classification, isolation and methodology, mechanisms, theory of catalysis, enzyme kinetics, pH effects, allosterism and regulation.

Chem 180/298 – Independent Studies. ***Course Description:*** Advanced supervised lab work. Work and results described in written and oral reports as required by instructor. This is a supervision

research course for undergraduate (Chem 180) and Master's (Chem 298) students. Enrollment varies from semester to semester, see Current Research Students section on page 12.

Chem 184 – Directed Reading. ***Course Description:*** Assigned readings of selected books, journals, and papers to fill gaps in training or for contact with new fields. In addition, students are taught to prepare CV's, cover letters, and personal statements for graduate school. Enrollment varies from semester to semester, depending on the number of RISE student trainees. See NIH RISE information on page 16.

Chem 299 – Master's Thesis. ***Course Description:*** Advanced supervised writing to allow students to complete the thesis. This is a supervision research course for Master's students. Enrollment varies from semester to semester, see Current Research Students section on page 12.

PROFESSIONAL SERVICE

12/22 - 06/23 **M.S. Graduate Advisor** – Dept. of Chemistry, SJSU
As graduate advisor, my role is to assist graduate students in their academic progress, advancement to candidacy, and eventual graduation. I am also involved in admission decisions. Temporary replacement for faculty on leave.

2021 - Present **Committee Member** – American Society for Biochemistry and Molecular Biology (ASBMB) Maximizing Access Committee (MAC)
The committee strives to increase cultural diversity through participation, visibility, and status of minorities in biochemistry and molecular biology.

2020 - 2021 **Chair, Part Time Faculty Evaluation Committee** – Dept. of Chemistry, SJSU
The committee is involved with retention, evaluations, and range elevation recommendations for part-time faculty.

2019 - 2023 **Retention, Tenure, Promotion (RTP) Committee** – Dept. of Chemistry, SJSU
The committee is involved with retention, tenure, and promotion decisions and recommendations. In addition, the committee evaluates part-time faculty and provides recommendations for advancement and retention. ***Note:*** Could not serve during the 2020-2021 academic year due to COVID and cancellation of Spring 2021 sabbatical, needed to withdraw. Continued once again during the 2022-2023 academic year.

2019 - 2023 **Reviewer** – Ford Fellowship Programs Reviewer for the National Academies of Science, Engineering, and Medicine, specifically the Biological & Biomedical Sciences panel. Review pre-doctoral, Ph.D. thesis, and post-doctoral fellowship applications.

2017 - 2023 **Mentor** – Chicanx/Latinx Student Success Center ("Centro")
The "centro" provides programs, services, and space to help support the success of all Chicanx and Latinx students at SJSU.

2015 - Present **Ad hoc Journal Reviewer** – Parasite & Vectors, Cell Cycle, Biotechnology and Applied Biochemistry, FEBS Open Bio

2014 - 2023 **Co-Coordinator/Mentor** – National Institutes of Health (NIH) Research Initiative for

Scientific Enhancement (RISE) Program, SJSU
The NIH RISE program is dedicated in providing research opportunities to undergraduate students from underrepresented backgrounds in biomedical fields with the goal of encouraging and preparing them for biomedical graduate programs and research careers. I started as a Mentor in 2014, then as a Co-Coordinator in 2016, my duties include assisting the Program Director in interviewing students, recruitment, helping with seminars, practicing with students for presentations, accompanying students to conferences, among other duties.

2013 - 2023 **Curriculum Committee** – Dept. of Chemistry, SJSU
The Curriculum Committee focuses on undergraduate-level courses and actions that include revisions to existing degree requirements, matters related to the general education program, and matters related to the improvement of departmental academic programs. As part of the committee, I have been involved in the preparation of yearly assessment reports for several courses (both undergraduate and graduate).

Graduate Committee – Dept. of Chemistry, SJSU
The Chemistry Graduate Committee is responsible for determining which graduate-level courses are to be offered each semester and discusses any issues that may arise with specific students. In addition, the committee meets with the Chair of the department and the graduate student advisor to discuss changes in degree requirements and to plan assessment activities. ***As of Fall 2021, Chair of the Graduate committee.***

Recruitment Committee – Dept. of Chemistry, SJSU
I have been fortunate to be a part of the recruitment process since my first semester at SJSU, with successful hires of a Biochemist/Organic Chemist in my first year (2013), a Physical Chemist in my second year (2014), an Organic Chemist in my third year (2015), an Inorganic/Analytical Chemist and a Biochemist in my fourth year (2016), a Physical Chemist and an Organic Chemist in my fifth year (2018), a Computational Chemist in my sixth year (2019), and an Organic Chemist in my 8th year (2021). The committee is currently active for this 2022-2023 academic year for two tenure-track positions: Assistant Professor - Organic Chemistry and/or Biochemistry.

Thesis Committee Member – Dept. of Chemistry & Dept. Biological Sciences
Served on 15 M.S. student thesis committees in both departments.