Fangyuan Tian

Associate Professor of Chemistry and Biochemistry
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EDUCATION

***Ph.D.* in Analytical Chemistry** Aug. 2013
University of Delaware, Newark, DE
Advisor: Andrew Teplyakov

***B.E.* in Polymer Chemistry** June 2008
Minor in Biotechnology
Jilin University, Changchun, Jilin Province, China

PROFESSIONAL EMPLOYMENT

Associate Professor, California State University Long Beach	08/2021-Present
Assistant Professor, California State University Long Beach	08/2015-07/2021
Post-doctoral Research and Teaching Associate, University of San Diego	09/2013-07/2015

AWARDS & HONORS

NSF CAREER Award	2022
Early Academic Career Excellence Award, CSULB	2020
ACS Petroleum Research Fund Undergraduate New Investigator Award	2018
ACS Dan Su Award	2014
CAS Dean's Doctoral Student Summer Scholar, University of Delaware	2013
Professional Development Award, University of Delaware	2012

TEACHING EXPERIENCE

NSCI-190A: Experience Success Program	Fall 2019
CHEM 251: Quantitative Analysis	Fall 2018, Spring 2020, Fall 2021
CHEM/PHYS 385: Materials Science	Fall 2017, Fall 2018, Fall 2019, Fall 2020
CHEM 451: Instrumental Methods of Analysis (Lecture and Lab)	2015-2021, Fall 2023
CHEM 552: Surface and Interface Chemistry	Spring 2018, Spring 2023
--Prior to CSULB--	
CHEM 151: General Chemistry I (U of San Diego)	Spring 2015
CHEM 151L: General Chemistry I Lab (U of San Diego)	Fall 2014

PUBLICATIONS

Google Scholar Profile: https://scholar.google.com/citations?user=4-bWCysAAAAJ&hl=en&oi=ao

Undergraduate authors are underlined.

1. Rodriguez, R., Palma, M. S., Bhandari, D., Tian, F., "Electrodeposition of Ag/ZIF-8 modified membrane for water remediation," *Langmuir*, **2023**, *39*, 6, 2291-2300.
2. Guillen, S. G., Parres-Gold, J., Ruiz, A., Lucsik, E., Dao, B., Hang, T. K. L., Chang, M., Garcia, A. O., Wang, Y., Tian, F., "pH-responsive metal-organic framework thin film for drug delivery," *Langmuir*, **2022**, *38*, 51, 16014-16023.
3. Bui, A., Guillen, S. G, Sua, A., Nguyen, T. C., Ruiz, A., Carachure, L., Weber, M. D. R., Cortez, A., Tian, F., "Iron-containing metal-organic framework thin film as a drug delivery system," *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2022**, *650*, 129611.
4. Weber, M. D. R.; Baker, T. L.; Dao, B.; Kwon, C.; Tian, F., **"**Exploring the aggregative growth of nanoporous zeolitic imidazolate framework ZIF-8," *Crystal Growth & Design*, **2020,** 20, 2305-2312.
5. Pham, H.; Ramos, K.; Sua, A.; Acuna, J.; Slowinska K.; Nguyen, T.; Bui, A.; Weber, M. D. R.; Tian, F., "Tuning crystal structures of iron-based metal-organic frameworks for drug delivery applications," *ACS Omega*, **2020,** 5, 3418-3427.
6. Aldrich, J. A.; Rousselo, S. M.; Yang, M. L.; Araiza, S. M.; Tian, F., "Adsorptive separation of methane from carbon dioxide by zeolite@ZIF composite," *Energy Fuels*, **2019**, 33, 348-355.
7. Ishihara, K. M.; Tian, F., "Semiconducting Langmuir-Blodgett films of porphyrin paddle-wheel frameworks for photoelectric conversion," *Langmuir*, **2018,** 34, 15689-15699.
8. Chin, M.; Cisneros, C.; Araiza, S. M.; Vargas, K. M.; Ishihara, K. M.; Tian, F., "Rhodamine B degradation by nanosized zeolitic imidazolate framework-8 (ZIF-8)," *RSC Adv.*, **2018**, 8, 26987-26997.
9. Ruiz, A. M.; Sua, A.; Tian, F., "Covalent attachment of metal-organic frameworks to surfaces." In: Wandelt, K., (Ed.) *Encyclopedia of Interfacial Chemistry: Surface Science and Electrochemistry*, **2018**, 4, 646–671.
10. Mosier, A. M., Larson, H. L. W., Webster, E. R., Ivos, M., Tian, F., Benz, L., "Low-temperature adsorption and diffusion of methanol in ZIF-8 nanoparticle films", *Langmuir*, **2016**, 32 (12), 2947-2954.

--Prior to CSULB--

11. Tian, F., Mosier, A.M., Park, A., Webster, E.R., Cerro, A.M., Benz, L., "In situ uptake measurements of CO_2 and H_2O by nanoporous ZIF-8 thin films," *J. Phys. Chem. C.*, **2015**, 119 (27), 15248-15253.
12. Cui, Y., Tian, F., Gao, F., Teplyakov, A.V., "Building organic monolayers based on fluorinated amines on the Si(111) surface," *J. Phys. Chem. C.*, **2014**, 118(46), 26721-26728.
13. Tian, F., Cerro, A.M., Mosier, A.M., Wayment-Steele, H.K., Shine, R.S., Park, A., Webster, E.R., Johnson, L.E., Johal, M.S., Benz, L., "Surface stability and characterization of a nanoporous ZIF-8 thin film," *J. Phys. Chem. C.*, **2014**, 118(26), 14449-14456.
14. Wayment-Steele, H.K., Johnson, L.E., Tian, F., Dixon, M.C., Benz, L., Johal, M.S., "Monitoring N_3 dye adsorption and desorption on TiO_2 surfaces: QCM-D and XPS studies,"

ACS Appl. Mater. Interfaces, **2014**, 6(12), 9093-9099.

15. Tian, F., Cui, Y., Teplyakov, A.V., "Nitroxidation of H-terminated Si(111) surfaces with nitrobenzene and nitrosobenzene," *J. Phys. Chem. C*., **2014**, 118(1), 502-512.
16. Tian, F., Teplyakov, A.V., "Silicon surface functionalization targeting Si-N linkages," *Langmuir*, **2013**, 29 (1), 13-28.
17. Tian, F., Yang, D., Opila, R.L., Teplyakov, A.V. "Chemical and electrical passivation of Si(111) surfaces," *Appl. Surf. Sci.*, **2012**, 258, 3019-3026.
18. Tian, F., Taber, D.F., Teplyakov, A.V. "–HN- termination of the Si(111) surface by wet chemistry," *J. Am. Chem. Soc.*, **2011**, 133, 20769-20777.
19. Tian, F., Ni, C., Teplyakov, A.V. "Integrity of functional self-assembled monolayers on hydrogen-terminated silicon-on-insulator wafers," *Appl. Surf. Sci.*, **2010**, 257, 1314-1318.

Submitted Manuscript

20. Hang, T. K. L., Tian, F., "Metal-organic framework thin films as drug delivery systems," Springer's 3rd Edition of Biomedical Nanotechnology. *In press.*
21. Jongert, T. K., Slowinski, I. A., Dao, B., Cortez, V., Tian, F., "Zeta potential and size analysis of ZIF-8 nanocrystals prepared by surfactant-assisted synthesis," *submitted.*

Patent

1. Tian, F.; Taber, D. F.; Teplyakov, A. V. "–NH- terminated silicon surface and a method for its preparation," US Patent No. 9, 272, 914, **2016**.

FUNDING

Current Research Support

NSF CAREER Award (#DMR-2144938, PI) 04/01/2022 – 03/31/2027
CAREER: Surface chemistry of crystalline coordination networks

NIH SCORE SC3 (#1SC3GM136590, PI) 09/11/2020 – 08/31/2024
Porous inorganic framework thin film as drug-eluting stent coating

NSF MRI (#CHEM-2117040, co-PI, PI: Dr. Xianhui Bu) 09/01/2021 – 08/31/2024
MRI: Acquisition of a single crystal X-ray diffractometer

Completed Research Support

ACS PRF UNI (PI) 01/01/2019 – 08/31/2021
Designing surface supportive zeolitic imidazolate frameworks for purifying natural gas

Environmental Research & Education Foundation Grant (PI) 10/01/2017 – 10/31/2020
Renewable energy from waste: A study of landfill gas purification by hybrid porous materials

NSF MRI (#CHEM-1828334, co-PI, PI: Dr. Yixian Wang, CSULA) 08/01/2018 – 07/31/2021
MRI: Acquisition of a surface plasmon resonance microscopy system for interdisciplinary research and research training

Educational Support

NSF S-STEM (co-PI, PI: Dr. Jen-Mei Chang) 01/01/2024 – 12/31/2030
Mentored Excellence Toward Research and Industry Careers 2 (METRIC 2)

UC-HSI DDI (co-PI, PI: Dr. Andrea Tao, UCSD) 06/01/2022 – 05/31/2027
Partnership in expanding diversity of faculty in materials science

PRESENTATIONS

Student presenters are underlined.

Invited Talks and Seminars

1. Tian, F., "A journey from pores to surfaces of porous materials." CSU STEM-NET Research Café. November 1, 2023. *Invited webinar speaker.*
2. Tian, F., "Electron transfer in two-dimensional semiconducting porphyrin-based metal-organic frameworks." 2023 Texas PEC Conference. October 21, 2023. *Invited speaker.*
3. Tian, F., "Surface supportive metal-organic frameworks for drug delivery – An undergraduate research project." 2023 Fall ACS National Meeting. August 16, 2023. *Invited speaker.*
4. Tian, F., "It's all connected! Innovative solutions found in nature." College of Natural Sciences and Mathematics Fellows Colloquium, California State University Long Beach (Virtual). April 6, 2023. *Invited faculty speaker.*
5. Tian, F., "Surface and interface chemistry of metal-organic framework thin films." Department of Chemistry and Biochemistry, University of California, San Diego. January 27, 2023. *Invited department seminar speaker.*
6. Tian, F., "Surface and interface chemistry of metal-organic framework thin films." Department of Chemistry and Biochemistry, California State University Fullerton. September 30, 2021. *Invited department seminar speaker.*
7. Guillen, S. G., Bui, A., Tian, F., "Surface supportive metal-organic framework as a drug delivery system." 2021 Middle Atlantic Regional Meeting (Virtual). June 10, 2021. *Invited speaker.*
8. Tian, F., "Surface and interface chemistry of metal-organic framework thin films." Department of Chemistry and Biochemistry, California State University San Marcos (Virtual). May 5, 2021. *Invited department seminar speaker.*
9. Bui, A., Nguyen, T., Alfarhat, G., Sua, A., Pham, H., Guillen, S. G., Ramos, K., Carachure, L., Tian, F., "Studies of surface chemistry of hybrid porous materials for tuning drug delivery efficacy and efficiency." 2021 Spring ACS National Meeting (Virtual). April 7, 2021. *Invited speaker.*
10. Tian, F., "Surface and interface chemistry of metal-organic framework thin films." Department of Chemistry and Biochemistry, California State University Northridge (Virtual). March 3, 2021. *Invited department seminar speaker.*
11. Tian, F., "Surface and interface chemistry of metal-organic frameworks." Department of Chemistry & Biochemistry, San Diego State University (Virtual). April 17, 2020. *Invited department seminar speaker.*
12. Tian, F., "Separation of Methane and Carbon Dioxide Using Zeolite@ZIF-95 Composite." 12th Natural Gas Conversion Symposium. San Antonio, TX. June 5, 2019. *Invited speaker.*
13. Tian, F., "An interdisciplinary project-based laboratory: Determination of N-methylaniline in gasoline using ATR-IR and GC-MS," 99th AAAS Pacific Division Symposium. Cal Poly Pomona. June 15, 2018. *Invited speaker.*
14. Tian, F., "Electrical and optical studies of metal-organic framework thin films." Department of Chemistry and Biochemistry, California State University Los Angeles. October 10, 2017. *Invited department seminar speaker.*

15. Tian, F., "Surface chemistry and properties of single crystalline and nanoporous materials." Department of Physics, California State University Long Beach. October 31, 2016. *Invited department seminar speaker.*

--Prior to CSULB--

16. Tian, F., "Modification of single crystalline semiconductor and surface reactivity studies of nanoporous materials." Department of Electrical Engineering, Nankai University, China (Virtual). May 14, 2015. *Invited department seminar speaker.*
17. Tian, F., "Surface chemistry and properties of single crystalline and nanoporous materials." Department of Chemistry and Biochemistry, California State University Long Beach. January 22, 2015. *Invited speaker.*
18. Tian, F., "Surface chemistry and properties of single crystalline and nanoporous materials." Department of Chemistry and Biochemistry, California State University Fullerton. January 14, 2015. *Invited speaker.*
19. Tian, F., "Surface chemistry and properties of single crystalline and nanoporous materials." Department of Chemistry and Biochemistry, University of Wisconsin, Eau Claire. January 8, 2015. *Invited speaker.*
20. Tian, F., "Fundamental studies of nanoporous materials for greenhouse gas capture and storage." Department of Chemistry, Salisbury University. December 8, 2014. *Invited speaker.*

Conference Oral Presentations

1. Lucsik, E., Tian, F., "Solvothermal synthesis of MIL-88B(Fe) on stainless-steel surfaces without substrate surface modification." 2023 Annual Biomedical Research Conference for Minoritized Scientists, Phoenix, AZ. November 15, 2023.
2. Lucsik, E., Tian, F., "Electrodeposition of MIL-88B(Fe) on medical-grade stainless-steel surfaces." 2023 Fall ACS National Meeting. August 16, 2023.
3. Enfiajyan, H., Hang, T. K. L., Slowinski, I., Tian, F., Kalman, J., "Functionalization of titania particles for improved mechanical performance of HTPB composites." 2023 Fall ACS National Meeting. August 14, 2023.
4. Guillen, S. G., Parres-Gold, J., Wang, Y., Tian, F., "Experimental and computational studies of MIL-88B(Fe) on COOH-terminated functionalized gold surface." 2021 Spring ACS National Meeting (Virtual). April 14, 2021.
5. Tian, F., "From waste to energy: Landfill gas purification using zeolitic imidazolate framework composite." Global Waste Management Symposium 2020, Indian Wells, CA, February 24, 2020.
6. Tian, F., "Langmuir-Blodgett films of two-dimensional metal-organic frameworks." SciX2019, Palm Spring, CA. October 17, 2019.
7. Bui, A., Tian, F., "Surface-supportive Fe-MIL-88B thin films for drug delivery." 2019 Spring ACS National Meeting. Orlando, FL, April 1, 2019.
8. Bui, A., Dinh, J., Tian, F., "Surface modification of iron-based metal-organic framework for drug delivery." 2018 Annual Biomedical Research Conference for Minority Students, Indianapolis, IN, November 14, 2018.
9. Ishihara, K. M., Tian, F., "Electrical and optical studies of porphyrin-based metal-organic frameworks." 2018 Spring ACS National Meeting. New Orleans, LA, March 19, 2018.
10. Chin, M., Tian, F., "ZIF-8 for the remediation of dye-contaminated effluent." 2017 Annual Biomedical Research Conference for Minoritized Scientists. Phoenix, AZ. November 2, 2017.

--Prior to CSULB--

11. Tian, F., Cerro, A.M., Mosier, A.M., Wayment-Steele, H.K., Johnson, L.E., Shine, R.S., Park, A., Webster, E.R., Kehr, K., Larson, H., Johal, M.S., Benz, L., "Surface reactivity of nanoporous ZIF-8 thin film toward energy-related gases." 2014 Fall ACS National Meeting. San Francisco, CA. August 11, 2014.
12. Tian, F., Taber, D.F., Teplyakov, A.V., "Uniform –NH-termination on Si(111) surface by wet chemistry." 86th ACS Colloid & Surface Science Symposium. University of John Hopkins, MD. June 15, 2012.
13. Tian, F., Teplyakov, A.V., "Chemical and electrical passivation of silicon surfaces through hydrosilylation and chlorination reactions." 2012 Spring ACS National Meeting. San Diego, CA. March 28, 2012.
14. Tian, F., Yang, D., Taber, D.F., Opila, R.L., Teplyakov, A.V., "Chemical and electrical passivation of Si(111) surfaces." 50th Eastern Analytical Symposium, Somerset, NJ, November 16, 2011
15. Tian, F., Teplyakov, A.V., "Functional self-assembled monolayers on hydrogen-terminated silicon-on-insulator wafers." 49th Eastern Analytical Symposium. Somerset, NJ. November 14, 2010.

Conference Poster Presentations

1. Lucsik, E., Tian, F., "Solvothermal synthesis of MIL-88B(Fe) on stainless-steel surfaces without substrate surface modification." 2023 Annual Biomedical Research Conference for Minoritized Scientists, Phoenix, AZ. November 18, 2023.
2. Jongert, T., Slowinski, I., Tian, F., "Exploring the effects of surfactant modification on zeolitic imidazolate framework-8 nanocrystals." 2023 Fall ACS National Meeting, San Francisco, CA. August 13, 2023.
3. Yu, R., Tian, F., "Activation of solid-phase luminescence by fluorescein encapsulation within zeolitic imidazole framework." 35th California State University Annual Biotechnology Symposium, Santa Clara, CA. January 13, 2023.
4. Hang, T. K. L., Tian, F., "Drug loading and releasing studies by MIL-88B(Fe) on the COOH-functionalized 316L stainless steel." 2023 SoCal Graduate Symposium, Cedar Sinai Hospital, Los Angeles, CA. November 4, 2022.
5. Yu, R., Nguyen, T., Tian, F., "Solid-phase luminescence emerging from non-emissive solids: Encapsulation of fluorescein within zeolitic imidazole framework." 2022 GiMS Conference, Pasadena, CA. October 7, 2022.
6. Ruiz, A., Tian, F., "Covalently attaching MIL-88B(Fe) onto stainless steel surfaces." 2022 Spring ACS National Meeting, San Diego, CA. March 26, 2022.
7. Dao, B., Tian, F., "Exploring the formation of zeolitic imidazolate framework-8 films on gold surfaces via self-assembled monolayers." 2022 Spring ACS National Meeting, San Diego, CA. March 26, 2022.
8. Rodriguez, R., Tian, F., "ZIF-8 coated stainless steel meshes with colloidally capped silver nanoparticles for removal of organic dyes and bacterial species." 2022 Spring ACS National Meeting, San Diego, CA. March 26, 2022.
9. Ruiz, A., Tian, F., "Covalently attaching MIL-88B(Fe) onto stainless steel surfaces." 34th California State University Annual Biotechnology Symposium (Virtual). January 12, 2022.
10. Srivastava, S., Tian, F., "Green synthesis of Fe-MIL-88B for drug delivery." 2021 Southern California Conferences for Undergraduate Research (Virtual). November 13, 2021.
11. Ruiz, A., Tian, F., "Metal-organic framework thin-films for drug-eluting stent coatings." 2021 Annual Biomedical Research Conference for Minoritized Scientists (Virtual). November 11, 2021.

12. Nguyen, T., Tian, F., "Synthesis and characterization of luminescent metal-organic frameworks for explosives detection." 33rd California State University Annual Biotechnology Symposium (Virtual). January 7, 2021.
13. Bui, A., Tian, F., "Biodegradable metal-organic frameworks as drug delivery systems." 32nd Annual California State University Biotechnology Symposium, Santa Clara, CA. January 11, 2020.
14. Nguyen, T., Tian, F., "MIL88B encapsulation and attachment on gold surface." 2019 Annual Biomedical Research Conference for Minoritized Scientists, Anaheim, CA. November 13, 2019.
15. Nguyen, T., Tian, F., "Synthesis and characterization of luminescent metal-organic frameworks for explosives detection." 2019 Annual Biomedical Research Conference for Minoritized Scientists, Anaheim, CA. November 13, 2019.
16. Weber, M., Kwon, C., Tian, F., "Size control on zeolitic imidazolate framework-8 particles for gas sensing." 2019 Spring ACS National Meeting. Orlando, FL, April 1, 2019.
17. Ishihara, K. M., Tian, F., "Semiconducting Langmuir-Blodgett films of copper paddle-wheel frameworks." 2019 Spring ACS National Meeting. Orlando, FL, April 1, 2019.
18. Bui, A., Dinh, J., Tian, F., Surface modification of iron-based metal-organic framework for drug delivery." 31st Annual California State University Biotechnology Symposium, Garden Grove, CA, January 4, 2019.
19. Chin, M., Cisneros, C., Araiza, S. M., Vargas, K. M., Ishihara, K., Tian, F., "Nanoscale ZIF-8 for the removal of organic dyes in wastewater." MOF2018. Auckland, New Zealand. December 10, 2018.
20. Chin, M., Tian, F., "Rhodamine B degradation by nanosized zeolitic imidazolate framework-8 (ZIF-8)." 2018 Spring ACS National Meeting. New Orleans, LA, March 18, 2018.
21. Ishihara, K., Tian, F., "Electrical and optical studies of porphyrin-based two-dimensional metal-organic frameworks." 2017 Southern California Conference for Undergraduate Research. Cal Poly Pomona. November 18, 2017.
22. Yang, M., Tian, F., "Comparison of commercial zeolite 4A and ZIF-95 on separation of methane from carbon dioxide and nitrogen." 2017 Spring ACS National Meeting. San Francisco, CA, April 2, 2017.
23. Sua, A., Carachure, L., Tian, F., "Using metal organic framework film as a drug-eluting stent coating," 29th Annual California State University Biotechnology Symposium. Santa Clara, CA. January 5, 2017.
24. Sua, A., Carachure, L., Tian, F., "Using metal organic framework film as a drug-eluting stent coating," 5th International Conference on Metal-Organic Frameworks & Open Framework Compounds. Long Beach, CA. September 12, 2016.
25. Pavlakovich, N., Mejia, I., Tian, F., "From methane to methanol: a catalytic conversion by Cu-mordenite." 2016 SoCal Undergraduate Research Symposium in Chemistry, Irvine, CA. July 16, 2016.

--Prior to CSULB--

26. Tian, F., Benz, L., "Chemical and Surface Science of Hybrid ZIF-8 Thin Films." 2014 Fall ACS National Meeting. San Francisco, CA. August 10, 2014.
27. Tian, F., Cui, Y., Teplyakov, A.V., "Chemical passivation of silicon surfaces with nitrogen-containing compounds by wet-chemistry." 35th Sanford Burnham Annual Symposium, San Diego, CA. October 7, 2013.
28. Tian, F., Teplyakov, A.V., "Insulating Si(111) surfaces by organic fluorine compound molecular monolayer." 59th AVS International Symposium. Tampa, Fl. November 1, 2012.
29. Tian, F., Taber, D.F., Teplyakov, A.V., "Preparation of –NH-terminated-Si(111) surface through wet chemistry." 2012 Fall ACS National Meeting. Philadelphia, PA. August 19, 2012.

30. Tian, F., Teplyakov, A.V., "Investigation of functional self-assembled monolayers on hydrogen-terminated silicon and silicon-on-insulator wafers." Center for Catalytic Science & Technology Annual Conference, University of Delaware. Newark, DE. October 6, 2010.

ADVISEES

Graduate Students

Cameron Fleischer	Fall 23 – Present
Hiep Nguyen Truong	Spring 23 – Present
Tristan Jongert	Fall 22 – Present
Tran Khanh Linh Hang	Fall 21 – Summer 23 (now at Polypeptides)
Raymond Yu	Spring 21 – Winter 23 (Grad); Spring 23, Technician in Tian Lab
Ricky Rodriguez	Fall 20 – Winter 23 (now at Montrose Environmental)
Steven Guillen	Fall 19 – Winter 22 (now at University of Southern California)
Kristi Ishihara	Spring 17 – Spring 18 (Undergrad), Spring 19 – Spring 21 (Grad) (now at InnoSense)
Andy Sua	Spring 16 – Summer 18 (now at College of DuPage)

Undergraduate Students

Darren Fang	Fall 23 – Present
Victor Cortez	Fall 23 – Present
Dorsa Kamyab	Summer 23 – Present
Javier Rios	Summer 23 – Present
Truc Pho	Spring 23 – Present
Ethan Lucsik	Fall 21 – Present
Benjamin Dao	Spring 19 – Summer 23 (joined PhD program at UCSD)
Angel Ruiz	Spring 20 – Spring 22 (joined PhD program at UCLA)
Nathaniel Cabral	Fall 21 – Fall 22 (joined United Semiconductors Inc.)
Sebastian Marroquin	Fall 19 – Spring 21 (joined PhD program at UC Irvine)
Tiffany Nguyen	Summer 19 – Spring 21 (joined PhD program at UC Santa Cruz)
George Alfarhat	Summer 19 – Spring 21(joined PharmD program at UCSF)
Leonardo Barajas	Fall 19 – Spring 21 (joined Baker Hughes)
Shivam Srivastava	Spring 20 – Spring 21 (joined Outpatient Medical Scribe)
Angela Bui	Spring 17 – Spring 20 (joined PhD program at UCLA)
Trenton Nguyen	Fall 17 – Spring 20 (joined PhD program at UC Irvine)
Jack Aldrich	Fall 17 – Spring 19 (joined PhD program at Oregon State U)
Mark Weber	Fall 17 – Spring 19 (joined PhD program at Georgia Tech)
Michael Chin	Spring 17 – Spring 19 (joined PhD program at UC Santa Barbara)
Hao Pham	Summer 18 – Summer 19 (joined MS program at UC Berkeley)
Ernesto Lozano	Summer 17 – Spring 19 (joined LA Metropolitan Water District)
Daniel Lu	Fall 17 – Spring 19
John Dinh	Summer 18 – Spring 19 (joined MS program at UC Davis)
Johana Aviles	Spring 17 – Spring 18
Richard Hargrove	Fall 17 – Spring 18
Savannah Rousselo	Fall 16 – Spring 18 (joined Eckert and Ziegler Isotope Products)
Cecilia Cisneros	Summer 16 – Spring 18 (co-supervised with Dr. Tapavicza)
Hadiah Fattal	Fall 16 – Spring 17 (joined PhD program at U of Oklahoma)
Lester Carachure	Fall 15 – Spring 17 (joined Ross University School of Medicine)
Melissa Yang	Fall 15 – Spring 17 (joined DiaSorin Molecular)
Nicholas Pavlakovich	Spring 16 – Spring 17 (joined MS program at CSULB)

Enrique Talamantes	Fall 15 – Spring 16 (joined Orange County Sheriff's Department)
Chau Le	Fall 15 – Spring 16
Kevin Diep	Fall 15 – Spring 16
--Prior to CSULB—	
Hanna Larson	Spring 14 – Summer 15 (joined MS program at UCSF)
Elizabeth Webster	Fall 13 – Spring 15 (joined PhD program at Stanford)
Amber Mosier	Fall 13 – Spring 15 (joined MS program at UCSD)
Andrew Cerro	Fall 13 – Summer 14 (joined Drug Delivery Experts, Inc.)
Kendal Kehr	Spring 14
Aileen Park	Fall 13 – Spring 14 (joined MD program at Creighton University)
Ryan Shine	Fall 13 (joined MD program at UCSD)
Yuexing Cui	Summer 12 – Summer 13 (joined PhD program at Northwestern)

High School Students

Ian Slowinski	Spring 23 – Present
Dante O'Connell	Summer 17 (joined BS program at UC Santa Barbara)
--Prior to CSULB—	
Emilio Evans-Grijalva	Summer 14 (joined BS program at U of San Diego)

MS Thesis

- Tran Khanh Linh Hang, MS Chemistry '23, "Surface-supporting MIL-88B(Fe) thin film as a new potential drug delivery system."
- Raymond Yu, MS Chemistry '23, "Encapsulation of fluorescein within zeolitic imidazolate framework: Solid-state fluorescence and analytical applications."
- Ricky Rodriguez, MS Chemistry '23, "ZIF-8 coated stainless steel meshes with colloidally capped silver nanoparticles (CC Ag NPs) for removal of organic dyes and bacterial species."
- Steven Gonzalez Guillen, MS Biochemistry '22, "Experimental and computational studies of MIL-88B(Fe) on COOH-terminated functionalized gold surfaces."
- Kristi Ishihara, MS Chemistry '21, "Thin films of porphyrin-containing metal-organic frameworks for photoelectric conversion."
- Andy Sua, MS Chemistry '18, "Using metal-organic framework film as a drug-eluting stent coating."

PROFESSIONAL SERVICE

Membership in Professional Organizations

American Chemical Society (ACS)	2012 – Present
Council on Undergraduate Research (CUR)	2014 – Present
American Vacuum Society (AVS)	2011 – 2015

Review Panels

NIH SBIR study session member – Biomaterials, Delivery, and Nanotechnology	2021 – Present
NIH Translational Research ad hoc reviewer	2022
ACS PRF ad hoc reviewer – Surface Chemistry	2017 – 2021
EREF ad hoc reviewer	2017, 2018, 2021
NSF DMR ad hoc reviewer	2019
DoD Army Research Office ad hoc reviewer	2018

CSU COAST ad hoc reviewer 2017, 2022

Journal Reviewer

ACS Appl Bio Mater, ACS Appl Mater Inter, ACS Omega, ACS Sensor, Adv Sci, CM, Catal Lett, Catal Today, Chem Sci, Comments Inorg, Chem Mater, CrystEngComm, Dalton, Inorg Chem, J Control Release, J Inorg Organometal Poly Mater, J Mater Chem A, J Chem Ed, J Hazard Mater, J Organo Chem, J Phys Chem, Langmuir, Nature, Nat Comm, New J Chem, Phys Chem Chem Phys, Small, Surf Sci Rep

Conference Organization and Contribution

Session Chair at the 2nd Texas pore Engineering Conference October 2023
Session Chair at the ACS Middle Atlantic Regional Meeting (Virtual) June 2021
Session Chair at the 12th Natural Gas Conversion Symposium. San Antonio, TX. June 2019
Moderator for CSULB CNSM Research Summit September 2017
Poster Judge at MOF2016 September 2016
Poster Judge at Southern California Conference for Undergraduate Research July 2016

CSULB Chem Department and CSNM Level Service

Faculty Mentor for Student Affiliates of the American Chemical Society at CSULB 2021 – Present
Department Award Committee Fall 22 – Present
Department Executive Committee Member 20-21AY, Fall 23-Present
Tenure Track Organic Chemist Hiring Committee Member 20-21AY
Department Technology Committee Member 19-21AY
CNSM Graduate Research Fellowship Committee Member Spring 18, Spring 21
Department Grade Appeals Committee Member 17-20AY
Department Graduate Admission Committee Member 16-20AY
CNSM Science Learning Center Faculty Representative 17-20AY
CNSM Mini Grant and Summer Stipend Reviewer Fall 17, Fall 18
Chair of Graduate student thesis proposals Spring 17
Co-organizer for the 2017 Allergan Distinguished Lecture Spring 17
CNSM Faculty Learning Community Member Fall 17
Department meeting recording secretary Fall 16 – Fall 17
CNSM Elections Committee Member 16-17AY
Department Curriculum and Assessment Committee 15-17AY

CSULB University and CSU Level Service

Director at CSULB for the UCSD-CSULB DDI Program Summer 22 – Present
Member at CSULB International Education Committee Fall 23 – Present
Faculty Mentor for people who are interested in applying for NSF CARRER within CSU campuses Spring 23 - Present
Consultant to local community based on university requests Spring 20 – Present
Member at the Presidential Commission on Sustainability 19-20AY
Juror for CSULB Student Research Competition March 2017

Community Outreach Activities

Host at CSULB Chemistry for the Oxnard College Women in STEM field trip April 2023
Guest speaker at the ACS Science Coaches Event at La Quinta High School January 2023

Organizer for materials chemistry outreach activities at the Sharks@Beach Event	2022, 2023
Organizer and host at CSULB Chemistry for the Santa Fe High School field trip	2018, 2020