

# Katherine Nalani Maloney

Point Loma Nazarene University  
Department of Chemistry  
3900 Lomaland Drive, San Diego, CA 92106  
kmaloney@pointloma.edu  
Tel: (619) 849-3425

## PROFESSIONAL EXPERIENCE

Assistant Dean, Point Loma Nazarene University School of STEM	2024-present
Co-Chair, Department of Chemistry	2023-2024
Professor of Chemistry	2018-present
Associate Professor of Chemistry	2014-2018
Assistant Professor of Chemistry	2012-2014
Associate Editor, <i>Journal of Natural Products</i>	2023-present
Visiting Scholar in the Balskus Lab, Harvard University Department of Chemistry and Chemical Biology	2022-2023
Visiting Scholar in the Dorrestein Lab UC San Diego Skaggs School of Pharmacy & Pharmaceutical Science	2019-2020
Assistant Professor of Chemistry, Harvey Mudd College	2009-2011

## EDUCATION & TRAINING

NIH Cancer Therapeutics Training (CT2) Postdoctoral Fellowship Scripps Institution of Oceanography/UCSD Advisor: Professor William Fenical Isolation and structure elucidation of bioactive compounds from marine actinomycetes	2006-2009
Ph.D. in Chemistry and Chemical Biology Cornell University Advisor: Professor Jon Clardy Dissertation title: Biologically active natural products from plants and their endophytes	2000-2006
B.S. in Chemistry, <i>summa cum laude</i> Pacific Lutheran University Advisor: Professor Duane Swank Synthesis and characterization of copper halide dimers ligated by substituted pyridines	1996-2000
Undergraduate Researcher, NSF-REU University of Washington Advisor: Professor Tomikazu Sasaki Multi-step organic synthesis of a modified carbohydrate ligand	Summer 1999

**TEACHING**

2012-	Point Loma Nazarene University	
	• CHE 1003, General, Organic & Biological Chemistry	2018-2023
	• CHE 1003L, General, Organic & Biological Chem Lab	2023-2024
	• CHE 1003L, Tiny Earth Chemistry	2020-2021
	• CHE 2013L, Analytical Chemistry Laboratory	2022
	• CHE 294L, Organic Chemistry I Laboratory	2012-2015
	• CHE 2096/3004, Organic Chemistry II	2012-2024
	• CHE 2096L, Organic Chemistry II Laboratory	2012-2021
	• CHE 3051, Organic Structure Elucidation	2012-2024
	• CHE 3051L, Organic Structure Elucidation Laboratory	2012-2024
	• CHE 370, Instrumental Analysis	2012-2018
	• CHE 370L, Instrumental Analysis Laboratory	2012-2018
	• CHE 4075, Natural Product Biosynthesis	2021
2009-2011	Harvey Mudd College:	
	• Chem 23S (21), General Chemistry: Structure	2009-2011
	• Chem 199, Seminar	2010-2011
	• Chem 56, Carbon Compounds	2010, 2011
	• Chem 58, Carbon Compounds Laboratory	2010, 2011
	• Chem 111, Organic Chemistry Laboratory	2009-2011
	• Chem 25, General Chemistry Laboratory	2009
2004-2006	<i>Teaching Fellow, 'B47: Molecules of Life' (Science Core course),</i> Harvard University	
2000-2001	<i>Teaching Assistant, 'Organic Chemistry for the Life Sciences,'</i> Cornell University	
1998-2000	<i>Chemistry Tutor and Grader,</i> Pacific Lutheran University	

**RESEARCH STUDENT MENTORING**

<sup>#</sup>Denotes students who have coauthored one or more peer-reviewed publications with me

<sup>§</sup>Denotes honors project student (PLNU) or senior thesis student (HMC)

*PLNU*

Macie Allen (PLNU Environmental Science '25)	2025-
Oscar Alvarado <sup>#</sup> (PLNU Biology-Chemistry '14; <i>DC, SCUHS</i> )	2012-2013
Victoria Berry <sup>#</sup> (PLNU Chemistry '19)	2017-2018
Reese Bos (PLNU Chemistry '25)	2022
Connor Brandenburg <sup>#,§</sup> (PLNU Philosophy '19; <i>MS in Chem., UCSD; Avidity Biosci.</i> )	2017-2019
Kiana Callahan (PLNU Biology-Chemistry '24)	2024
Kyler Brinton <sup>#</sup> (PLNU Biology-Chemistry '21; <i>MD student at Florida Atlantic U.</i> )	2019
Diana Corral <sup>#</sup> (PLNU Biology-Chemistry '21; <i>Hologic</i> )	2019
Jason Chari <sup>#</sup> (Cornell U. Biostatistics '17; <i>PhD in Chemistry, UCLA; Think Bioscience</i> )	2016
Brent Chicoine <sup>#</sup> (PLNU Biology-Chemistry '15; <i>Novartis</i> )	2013
Jennifer Cordoza <sup>#,§</sup> (PLNU Biology-Chemistry '19; <i>PhD student in Chemistry, UCSC</i> )	2018-2019
Nick Cornelius (PLNU Biology MS '21; <i>MS in Biology, PLNU; Catalent</i> )	2021
Taylor Davis <sup>#,§</sup> (PLNU Biology-Chemistry '14; <i>MPH, Azusa Pacific University</i> )	2012-2014
Sydney Davis <sup>#,§</sup> (PLNU Biology-Chemistry '18; <i>MD, University of Utah</i> )	2016-2018
Jaxon DeBoef (PLNU Environmental Science '27)	2025-

Lindsey D'Elia (PLNU Biology-Chemistry '17; MD student at NYU)	2015-2016
Corrie Fyle (PLNU Chemistry '24; Forensic Chemist at NCIS)	2022
Eunice Granados (PLNU Biology-Chemistry '14)	2014
Payton Hart (PLNU Environmental Science '25)	2024-
Nathan Jenkins (PLNU Chemistry '23)	2022
Andrew Kamemoto <sup>§</sup> (PLNU Biology-Chemistry '23; Integrated DNA Technologies)	2021-2023
Julia Kelly (PLNU Biology-Chemistry '21; MD student at UCSD)	2019-2021
Amanda Koontz <sup>§</sup> (PLNU Biology-Chemistry '23)	2021-2023
Lia Lozano <sup>#</sup> (PLNU Chemistry '19; PhD student in Chemistry, UC Santa Cruz)	2018-2019
Elizabeth Maloney <sup>#</sup> (Pacific Lutheran Univ. Econ., Math, & Comp. Sci. '16; PhD in Economics, UC Irvine; The Brattle Group)	2012, 2016
Jeremiah Meloch <sup>#</sup> (PLNU Biology-Chemistry '20; PassPort Technologies)	2018-2019
Olivia Owen <sup>§</sup> (PLNU Biology-Chemistry '22; Coastal Pain and Spinal Diagnostics)	2021-2022
Morgan Papineau <sup>§</sup> (PLNU Biology-Chemistry '17; DO, Idaho Coll. Osteopathic Med.)	2015-2017
Heather Rainbow <sup>§</sup> (PLNU Chemistry '22; JD student at Univ. of San Diego; USPTO)	2020-2022
Jordan Reader <sup>#</sup> (PLNU Biology-Chemistry '15; DO, Univ. of New England)	2013-2014
Carolina Ruiz Rivera (PLNU Biology-Chemistry '26)	2024-
Sierra Ruvalcaba (PLNU Biology-Chemistry '21; MS in Biomedical Diagnostics at Arizona State University; Hologic)	2021
Jonathan Sawada (PLNU Biology-Chemistry '17; MD, Loma Linda)	2015-2016
Lindsay (Semmler) Ellis <sup>§</sup> (PLNU Biology-Chemistry '16; Avanos Medical)	2015-2016
Matthew Steinhaus <sup>#</sup> (PLNU Biology-Chemistry '15; MD, UC Irvine)	2013-2014
Samantha Thompson (PLNU Biology-Chemistry '18; PharmD, UCSD)	2017-2018
Sara Versales (PLNU Chemistry '21; MS in Pharmacology, UC Irvine; Cedars-Sinai)	2019
Makena Williams (PLNU Music '23)	2022
Lauren Wilson (PLNU Biology-Chemistry '22; MD student at Loma Linda)	2021-2022
Christopher Yang (PLNU Biology-Chemistry '26)	2024-

## HMC

Thomas Aldrich <sup>#,§</sup> (HMC Chemistry '12; NSF GRFP PhD in Chemistry, Northwestern; Synthetic Chemist at Apple)	2010-2012
Kyle Chakos (HMC Engineering '13; Sr. Data Engineer at RatedPower)	2010
Alix Chan (HMC Chemistry & Biology '12; PhD in Chemical Biol., Harvard; Genentech)	2011
William Chen (HMC Mathematical Biology '12; MS in Quantitative Ecology & Resource Management, Univ. of Washington)	2010
Jonathan 'Chance' Crompton <sup>#</sup> (HMC Chemistry '13; MS in Chemistry, Caltech)	2011
Brian Fielder (HMC Chemistry '14; Schrödinger, Inc.)	2010-2011
Millie Fung <sup>§</sup> (HMC Chemistry & Biology '11; PhD in Chemistry, UC Irvine; AAHI)	2010-2011
Katie Near Keenan <sup>§</sup> (HMC Chemistry '10; NSF GRFP PhD in Chem., Stanford; BMS)	2009-2010
Bethany Okada <sup>#</sup> (HMC Chemistry '13; PhD in Chemistry, Princeton; Ionis)	2011
Caitlin Olmsted <sup>§</sup> (HMC Chemistry '10; Merkle)	2009-2010
Emily Putnam (HMC Chemistry & Biology '12; Quantabio)	2010
Kim Quach <sup>#</sup> (HMC Chemistry '12; PhD in Chemistry, Yale; AbbVie)	2011
Jessie Roy <sup>§</sup> (HMC Chemistry '11; MS in Biology, Georgia Tech)	2010-2011
Kathryn Schmiedicke <sup>§</sup> (HMC Biology '11)	2010-2011
Vincent Shieh <sup>#</sup> (HMC Chemistry & Biology '12; Samsara, Inc.)	2010
Camille Sultana <sup>#,§</sup> (HMC Chemistry '10; PhD in Environmental Chemistry, UCSD; California Air Resources Board)	2009-2010

**PUBLICATIONS**

\* Undergraduate student co-authors

1. Kountz, D. J.; Yu, R.; Lee, J. H.\*; **Maloney, K. N.**; Balskus, E. P. Flavoaffinins, elusive cellulose-binding natural products form an anaerobic bacterium. (Under Review at *J. Am. Chem. Soc.* Submitted 2/12/2025); Preprint published on bioRxiv; DOI: [10.1101/2025.02.08.637243](https://doi.org/10.1101/2025.02.08.637243)
2. Moore, B. S.; Krane, S.; Berlinck, R.; **Maloney, K. N.**; Pearce, C. Emerging investigators at the forefront of natural products research. (Under Review at *J. Nat. Prod.* Submitted 2/19/2025)
3. Petras, D.; Phelan, V. V.; Acharya, D.; Allen, A. E.; Aron, A. T.; Bandeira, N.; Bowen, B. P. Belle-Oudry, D.; Boecker, S.; Cummings Jr., D. A.; Deutsch, J. M.; Fahy, E.; Garg, N.; Gregor, R.; Handelsman, J.; Navarro-Hoyos, M.; Jarmusch, A. K.; Jarmusch, S. A.; Louie, K.; **Maloney, K. N.**; Marty, M. T.; Meijler, M. M.; Mizrahi, I.; Neve, R. L.; Northen, T. R.; Molina-Santiago, C.; Panitchpakdi, M.; Pullman, B.; Puri, A. W.; Schmid, R.; Subramaniam, S.; Thukral, M.; Vasquez-Castro, F.; Dorrestein, P. C.; Wang, M. GNPS Dashboard: Collaborative exploration of mass spectrometry data in the web browser. *Nat. Methods.* **2022**, *19*, 134-136. DOI: [10.1038/s41592-021-01339-5](https://doi.org/10.1038/s41592-021-01339-5)
4. Schorn, M. A.; Verhoeven, S.; Ridder, L.; Huber, F.; Acharya, D. D.; Aksenov, A. A.; Aleti, G.; Moghaddam, J. A.; Aron, A. T.; Aziz, S.; Bauermeister, A.; Bauman, K. D.; Baunach, M.; Beemelmans, C.; Beman, J. M.; Berlanga-Clavero, M. V.; Blacutt, A. A.; Bode, H. B.; Boullie, A.; Brejnrod, A.; Bugni, T. S.; Calteau, A.; Cao, L.; Carrion, V. J.; Castelo-Branco, R.; Chanana, S.; Chase, A. B.; Chevrette, M. G.; Costa-Lotufu, L. V.; Crawford, J. M.; Currie, C. R.; Cuypers, B.; Dang, T.; de Rond, T.; Demko, A. M.; Dittmann, E.; Du, C.; Drozd, C.; Dujardin, J.-C.; Dutton, R. J.; Edlund, A.; Fewer, D. P.; Garg, N.; Gauglitz, J. M.; Gentry, E. C.; Gerwick, L.; Glukhov, E.; Gross, H.; Gugger, M.; Guillén Matus, D. G.; Helfrich, E. J. N.; Hempel, B.-F.; Hur, J.-S.; Iorio, M.; Jensen, P. R.; Kang, K. B.; Kaysser, L.; Kelleher, N. L.; Kim, C. S.; Kim, K. H.; Koester, I.; König, G. M.; Leao, T.; Lee, S. R.; Lee, Y.-Y.; Li, X.; Little, J. C.; **Maloney, K. N.**; Männle, D.; Martin H., C.; McAvoy, A. C.; Metcalf, W. W.; Mohimani, H.; Molina-Santiago, C.; Moore, B. S.; Mallowney, M. W.; Muskat, M.; Nothias, L. F.; O'Neill, E. C.; Parkinson, E. I.; Petras, D.; Piel, J.; Pierce, E.; Pires, K.; Reher, R.; Romero, D.; Roper, M. C.; Rust, M.; Saad, H.; Saenz, C.; Sanchez, L. M.; Sørensen, S. J.; Sosio, M.; Süßmuth, R. D.; Sweeney, D.; Tahlan, K.; Thomson, R. J.; Tobias, N. J.; Trindade-Silva, A. E.; van Wezel, G. P.; Wang, M.; Weldon, K. C.; Zhang, F.; Ziemert, N.; Duncan, K. R.; Crüsemann, M.; Rogers, S.; Dorrestein, P. C.; Medema, M. H.; van der Hooft, J. J. J. A community resource for paired genomic and metabolomic data mining. *Nat. Chem. Biol.* **2021**, *17*, 363-368. DOI: [10.1038/s41589-020-00724-z](https://doi.org/10.1038/s41589-020-00724-z)
5. Aksenov, A. A.; Laponogov, I.; Zhang, Z.; Doran, S. L. F.; Belluomo, I.; Veselkov, D.; Bittremieux, W.; Nothias, L. F.; Nothias-Esposito, M.; **Maloney, K. N.**; Misra, B. B.; Melnik, A. V.; Smirnov, A.; Du, X.; Jones, K. L.; Dorrestein, K.; Panitchpakdi, M.; Ernst, M.; van der Hooft, J. J. J.; Gonzalez, M.; Carazzone, C.; Amézquita, A.; Callewaert, C.; Morton, J. T.; Quinn, R. A.; Bouslimani, A.; Orio, A. A.; Petras, D.; Smania, A. M.; Couvillion, S. P.; Burnet, M. C.; Nicora, C. D.; Zink, E.; Metz, T. O.; Artaev, V.; Humston-Fulmer, E.; Gregor, R.; Meijler, M. M.; Mizrahi, I.; Eyal, S.; Anderson, B.; Dutton, R.; Lugan, R.; Boulch, P. L.; Guitton, Y.; Prevost, S.; Poirier, A.; Dervilly, G.; Le Bizec, B.; Fait, A.; Persi, N. S.; Song, C.; Gashu, K.; Coras, R.; Guma, M.; Manasson, J.; Scher, J. U.; Barupal, D. K.; Alseekh, S.; Fernie, A. R.; Mirnezami, R.; Vasiliou, V.; Schmid, R.; Borisov, R. S.; Kulikova, L. N.; Knight, R.; Wang, M.; Hanna, G. B.; Dorrestein, P. C.; Veselkov, K. Auto-deconvolution and molecular networking of gas chromatography-mass spectrometry data. *Nat. Biotechnol.* **2021**, *39*, 169-173. DOI: [10.1038/s41587-020-0700-3](https://doi.org/10.1038/s41587-020-0700-3)

6. Brandenburg, C. A.\*; Castro, C. A.; Blacutt, A. A.; Costa, E. A.; Brinton, K. C.\*; Corral, D. W.\*; Drozd, C. L.; Roper, M. C.; Rolshausen, P. E.; **Maloney, K. N.**; Lockner, J. W. Synthesis of deoxyradicinin, an inhibitor of *Xylella fastidiosa* and *Liberibacter crescens*, a culturable surrogate for *Candidatus Liberibacter asiaticus*. *J. Nat. Prod.* **2020**, *83*: 6, 1810-1816. DOI: [10.1021/acs.jnatprod.9b01207](https://doi.org/10.1021/acs.jnatprod.9b01207)
7. Blacutt, A.; Ginnan, N.; Dang, T.; Bodaghi, S.; Vidalakis, G.; Ruegger, P.; Peacock, B.; Viravathana, P.; Campos Vieira, F.; Drozd, C.; Jablonska, B.; Borneman, J.; McCollum, G.; Cordoza, J.\*; Meloch, J.\*; Berry, V.\*; Lozano Salazar, L.\*; **Maloney, K. N.**; Rolshausen, P. E.; Roper, M. C. An *in vitro* pipeline to screen and select citrus-associated microbiota with potential anti-*Candidatus Liberibacter asiaticus* properties. *Appl. Environ. Microbiol.* **2020**, *86*: 8, e02883-19. DOI: [10.1128/AEM.02883-19](https://doi.org/10.1128/AEM.02883-19)
8. **Maloney, K. N.**; Botts, R. T.; Davis, T. S.\*; Okada, B. K.\*; Maloney, E. M.\*; Leber, C. A.; Alvarado, O.\*; Brayton, C.\*; Caraballo, M.; Chari, J. V.\*; Chicoine, B.\*; Crompton, J. C.\*; Davis, S. R.\*; Gromek, S. M.; Kurnianda, V.; Quach, K.\*; Samples, R. M.; Shieh, V.\*; Sultana, C. M.\*; Tanaka, J.; Dorrestein, P. C.; Balunas, M. J.; McFadden, C. S. "Cryptic species account for the seemingly idiosyncratic secondary metabolism of *Sarcophyton glaucum* specimens collected in Palau." *J. Nat. Prod.* **2020**, *83*: 3, 693-705. DOI: [10.1021/acs.jnatprod.9b01128](https://doi.org/10.1021/acs.jnatprod.9b01128)
9. **Maloney, K.** "In Praise of a Nonelite Education" *Inside Higher Ed*, 22 May **2019**. Op-ed. <https://www.insidehighered.com/advice/2019/05/22/nonelite-colleges-can-give-students-excellent-education-and-phd-grads-chance-grow>
10. Kearney, S. E.; Zahoránszky-Köhalmi, G.; Brimacombe, K. R.; Henderson, M. J.; Lynch, C.; Zhao, T.; Wan, K. K.; Itkin, Z.; Dillon, C.; Shen, M.; Cheff, D. M.; Lee, T. D.; Bougie, D.; Cheng, K.; Coussens, N. P.; Dorjsuren, D.; Eastman, R. T.; Huang, R.; Iannotti, M. J.; Karavadi, S.; Klumpp-Thomas, C.; Roth, J. S.; Sakamuru, S.; Sun, W.; Titus, S. A.; Yasgar, A.; Zhang, Y.; Zhao, J.; Andrade, R. B.; Brown, M. K.; Burns, N. Z.; Cha, J. K.; Mevers, E. E.; Clardy, J.; Clement, J. A.; Crooks, P. A.; Cuny, G. D.; Ganor, J.; Moreno, J.; Morrill, L. A.; Picazo, E.; Susick, R. B.; Garg, N. K.; Goess, B. C.; Grossman, R. B.; Hughes, C. C.; Johnston, J. N.; Joullie, M. M.; Kinghorn, A. D.; Kingston, D. G. I.; Krische, M. J.; Kwon, O.; Maimone, T. J.; Murphy, B. T.; Nagorny, P.; Majumdar, S.; **Maloney, K. N.**; Mohamed, E.; Olson, D. E.; Overman, L. E.; Brown, L. E.; Snyder, J. K.; Porco, J. A., Jr.; Sharma, I.; Shaw, J. T.; Rivas, F.; Ross, S. A.; Sarpong, R.; Xu, Z.; Shen, B.; Shi, W.; Stephenson, C. R. J.; Tang, Y.; Taylor, R. E.; Thomson, R. J.; Wuest, W. M.; Zakarian, A.; Zhang, Y.; Verano, A. L.; Tan, D. S.; Vosburg, D. A.; Wu, J.; Ren, T.; Zuo, Z.; Inglese, J.; Michael, S.; Simeonov, A.; Zheng, W.; Shinn, P.; Jadhav, A.; Boxer, M. B.; Hall, M. D.; Xia, M.; Guha, R.; Rohde, J. M. "Canvass: A Crowd-Sourced, Natural-Product Screening Library for Exploring Biological Space" *ACS Cent. Sci.* **2018**, *4*, 1727-1741. DOI: [10.1021/acscentsci.8b00747](https://doi.org/10.1021/acscentsci.8b00747)
11. Kim, D.; Lee, E. J.; Lee, J.; Leutou, A. S.; Shin, Y.-H.; Choi, B.; Hwang, J. S.; Hahn, D.; Choi, H.; Chin, J.; Cho, S. J.; Hong, Y. D.; Ko, J.; Seong, C. N.; **Maloney, K. N.**; Oh, D.-C.; Yang, I.; Hwang, H.; Nam, S.-J. "Antartin, a cytotoxic zizaane-type sesquiterpenoid from a *Streptomyces* sp. isolated from an Antarctic marine sediment." *Marine Drugs* **2018**, *16*, 130. DOI: [10.3390/md16040130](https://doi.org/10.3390/md16040130)
12. Aldrich, T. J.\*; Rolshausen, P.; Roper, M. C.; Reader, J. M.\*; Steinhaus, M. J.\*; Rapicavoli, J.; Vosburg, D. A.; **Maloney, K. N.** "Radicinin from *Cochliobolus* sp. inhibits *Xylella fastidiosa*, the causal agent of Pierce's Disease of grapevine." *Phytochemistry* **2015**, *116*, 130-137.

13. Sun, P.; **Maloney, K. N.**; Nam, S.-J.; Haste, N. M.; Raju, R.; Aalbersberg, W.; Jensen, P. R.; Nizet, V.; Hensler, M. E.; Fenical, W. "Fijimycins A-C, three antibacterial etamycin-class depsipeptides from a marine-derived *Streptomyces* sp." *Bioorg. Med. Chem.* **2011** 19 (22), 6557-6562. DOI: [10.1016/j.phytochem.2015.03.015](https://doi.org/10.1016/j.phytochem.2015.03.015)
14. Udvary, D. W.; Gontang, E. A.; Jones, A. C.; Schultz, A. W.; Sorrels, C. M.; Winter, J. M.; Yang, J. Y.; Beauchemin, N.; Capson, T. L.; Clark, B. R.; Esquenazi, E.; Eustáquio, A. S.; Freel, K.; Gonzalez, D. J.; Gerwick, L.; Gerwick, W. H.; Liu, W.-T.; Malloy, K. L.; **Maloney, K. N.**; Nett, M.; Nunnery, J. K.; Penn, K.; Prieto-Davo, A.; Simmons, T. L.; Weitz, S.; Wilson, M. C.; Tisad, L. S.; Dorrestein, P. C.; Moore, B. S. "Significant natural product biosynthetic potential of actinorhizal symbionts of the genus *Frankia*, as revealed by comparative genomic and proteomic analyses." *Appl. Environ. Microb.* **2011** 77 (11), 3617-3625. DOI: [10.1128/AEM.00038-11](https://doi.org/10.1128/AEM.00038-11)
15. Choi, Y.; Jermihov, K.; Nam, S.; Sturdy, M.; **Maloney, K.**; Qiu, X.; Main, M.; Mesecar, A. D.; Pauli, G. F.; Fenical, W. Pezzuto, J. M.; van Breemen, R. R. "Screening natural products for inhibitors of quinone reductase-2 using ultrafiltration LC-MS." *Anal. Chem.* **2011** 83 (3), 1048-1052. DOI: [10.1021/ac1028424](https://doi.org/10.1021/ac1028424)
16. Murphy, B. T.; **Maloney, K. N.**; Fenical, W., **2011**, Natural Products from Marine Microorganisms. In *Natural Products: Phytochemistry and Pharmacognosy*. Pezzuto, J. M.; Kato M. J., Eds.; in Encyclopedia of Life Support Systems (EOLSS), Developed under the Auspices of the UNESCO, Eolss Publishers, Paris, France.
17. Haste, N. M.; Perera, V.; **Maloney, K. N.**; Tran, D. N.; Jensen, P. R.; Fenical, W.; Nizet, V.; Hensler, M. E. "Activity of the streptogramin antibiotic etamycin against methicillin-resistant *Staphylococcus aureus*." *J. Antibiot.* **2010** 63 (5), 219-224. DOI: [10.1038/ja.2010.22](https://doi.org/10.1038/ja.2010.22)
18. **Maloney, K. N.**; MacMillan, J. B.; Kauffman, C. A.; Jensen, P. R.; DiPasquale, A. G.; Rheingold, A. L.; Fenical, W. "Lodopyridone, a structurally-unprecedented alkaloid from a marine actinomycete." *Org. Lett.* **2009** 11 (23), 5422-5424. DOI: [10.1021/ol901997k](https://doi.org/10.1021/ol901997k)
19. **Maloney, K. N.**; Fujita, M.; Eggert, U. S.; Schroeder, F. C.; Field, C. M.; Mitchison, T. J.; Clardy J. "Actin-aggregating cucurbitacins from *Physocarpus capitatus*." *J. Nat. Prod.* **2008** 71 (11), 1927-1929. DOI: [10.1021/np8005259](https://doi.org/10.1021/np8005259)
20. **Maloney, K. N.**; Hao, W.; Xu, J.; Gibbons, J.; Hucul, J.; Roll, D.; Brady, S. F.; Schroeder, F. C.; Clardy, J. "Phaeosphaeride A, a selective inhibitor of STAT3-dependent signaling isolated from an endophytic fungus." *Org. Lett.* **2006** 8 (18), 4067-4070. DOI: [10.1021/ol061556f](https://doi.org/10.1021/ol061556f)
21. Smith, P. L.; **Maloney, K. N.**; Pothen, R. G.; Clardy, J.; Clapham, D. E. "Bisandrographolide from *Andrographis paniculata* activates TRPV4 channels." *J. Biol. Chem.* **2006** 281 (40), 29897-29904. DOI: [10.1074/jbc.M605394200](https://doi.org/10.1074/jbc.M605394200)
22. Hieronymus, H.; Lamb, J.; Ross, K. N.; Clement, C.; Peng, X. P.; Rodina, A.; Nieto, M.; Du, J.; Stegmaier, K.; Raj, S. M.; **Maloney, K. N.**; Clardy, J.; Hahn, W. C.; Chiosis, G.; Golub T. R. "Gene expression signature-based chemical genomic prediction identifies novel class of HSP90 pathway modulators." *Cancer Cell* **2006** 10 (4), 321-330. DOI: [10.1016/j.ccr.2006.09.005](https://doi.org/10.1016/j.ccr.2006.09.005)

23. **Maloney, K. N.** "Book Review: Natural Products Isolation, Second Edition. Satyajit D. Sarker, Zahid Latif, and Alexander I. Gray, Editors. Humana Press." *Chemical Educator* **2006** 11 (2), 146-147.

## PATENTS & PATENT APPLICATIONS

\* Undergraduate student co-authors

1. Rolshausen, P.; Roper, M. C.; Maloney, K. Using Microbially-Derived Natural Products and Strains to Control Citrus Diseases. *US Provisional Patent Appl. No. 63/637,192*, filed April 22, 2024.
2. Roper, M.C.; Rolshausen, P.; Maloney, K. Compositions and Methods for Treating Citrus Greening. *US Provisional Patent Appl. No. 63/570,612*, filed March 27, 2024.
3. Roper, M.C.; Rolshausen, P.; Lockner, J.; Maloney, K. Citrus Huanglongbing Therapeutic Compounds. (2023) *US Patent App. 17/794,527*.
4. Rolshausen, P.; Roper, M. C.; Maloney, K. N.; Aldrich, T.\* Fungi antagonistic to *Xylella fastidiosa*. (2019) *US Patent 10,238,118*.
5. Clardy, J. C.; Maloney, K. N.; Schroeder, F. C. Polymeric bioplastics. *PCT Int. Appl.* (2009), WO 2009/045719 A2 20090409.

## INVITED TALKS

1. Maloney, K. N. "The curious case of *Sarcophyton glaucum*: Capricious natural products chemist or victim of mistaken identity?" Plenary talk at the inaugural UCSD Center for Marine Biotechnology and Biomedicine Symposium. San Diego, 4 November 2024.
2. Maloney, K. N. "The life of a PUI Prof" Lunch & Learn Seminar organized by the UF Scripps Women in Science. 14 October 2024.
3. Maloney, K. N. "Adventures in the development of a natural products chemistry-themed CURE" 2YC3 Virtual Presentation. 11 October 2024.
4. Maloney, K. N. "Ups and downs of developing a natural products chemistry-themed CURE" Invited oral presentation at the Fall 2024 National Meeting, American Chemical Society. Denver, 21 August 2024.
5. Maloney, K. N. "Establishing interdisciplinary collaborations and inspiring undergraduate students with Natural Products Chemistry" Plenary talk in the Natural Products Conference of the 47<sup>th</sup> Annual Meeting of the Brazilian Chemical Society (47<sup>a</sup> RASBQ). Águas de Lindoia, Brazil. 23 May 2024.
6. Maloney, K. N. "The curious case of *Sarcophyton glaucum*: Capricious natural products chemist or victim of mistaken identity?" PLNU Perspectives on Science Lecture Series. San Diego, 7 November 2023.

7. Maloney, K. N. "Cryptic species membership as the primary driver of secondary metabolism in *Sarcophyton glaucum*: Leveraging interdisciplinary collaborations to get research done at a PUI." Plenary talk at the 2023 American Society of Pharmacognosy Annual Meeting. Rockville, 24 July 2023.
8. Maloney, K. N. "From PUI to the DOC: My career path, my day job, and my involvement with the ACS Division of Organic Chemistry." Virtual Seminar at Universidad Yachay Tech, San Miguel de Urcuqui, Ecuador. 20 June 2023.
9. Maloney, K. N. "The curious case of *Sarcophyton glaucum*: Capricious natural products chemist or victim of mistaken identity?" Invited Seminar at the College of the Holy Cross, Worcester. 14 April 2023.
10. Maloney, K. N. "My life as a PUI prof." Chemistry and Chemical Biology - Graduate and Postdoc Council (CCB-GPC) Invited Speaker Series, Harvard University, Cambridge. 22 March 2023.
11. Maloney, K. N. "Tiny Earth Chemistry: Adventures in developing a natural products chemistry-themed course-based undergraduate research experience (CURE)." Guest Lecture in SIO262: Marine Chemical Biology Seminar, University of California, San Diego, 3 May 2021.
12. Maloney, K. N. "The curious case of *Sarcophyton glaucum*: Capricious natural products chemist or victim of mistaken identity?" PURE Lunch & Learn Seminar organized by the UCSD Office of Undergraduate Research. 30 June 2020.
13. Maloney, K. N. "Progress toward a Tiny Earth Chemistry course." Oral presentation at the TE2020: Tiny Earth Virtual Symposium. 17 June 2020.
14. Maloney, K. N. "Defending the grapevines & citrus trees: Finding new, natural product inhibitors of Pierce's disease and citrus greening from endophytic bacteria and fungi." Guest Lecture in AP Biology, La Jolla Country Day School, San Diego, 27 August 2020.
15. Maloney, K. N. "Relating chemical differences with cryptic species membership in the soft coral *Sarcophyton glaucum*, and What it's like to teach and do research at a Primarily Undergraduate Institution." Guest Lecture in SIO242: Marine Biotechnology, University of California, San Diego, 30 January 2020.
16. Maloney, K. N. "Safeguarding the citrus: Natural product inhibitors of huanglongbing from endophytic bacteria and fungi." Invited seminar at California State University, San Marcos, 24 October 2019.
17. Maloney, K. N. "Lessons from the S-STEM CS Program at PLNU." Invited oral presentation at the 223rd 2YC3 Conference. San Diego, 23 August 2019.
18. Maloney, K. N. "The curious case of *Sarcophyton glaucum*: Capricious natural products chemist or victim of mistaken identity?" Seminar presented to the Natural Product Affinity Group (NPAG) at Scripps Institution of Oceanography. La Jolla, 13 July 2018.
19. Maloney, K. N. "Defending the grapevines: Natural product inhibitors of Pierce's Disease from endophytic fungi." Symposium on Organic Synthesis and Chemical Biology at the University of San Diego. San Diego, 2 May 2017.



20. Maloney, K. N. "The curious case of *Sarcophyton glaucum*: Capricious natural products chemist or victim of mistaken identity?" Portland Section Meeting, American Chemical Society. Portland, 1 December 2016.
21. Maloney, K. N. "Saving the wine grapes: Radicinin from the endophyte *Cochliobolus* sp. inhibits *Xylella fastidiosa*, the causal agent of Pierce's Disease of grapevine," Seminar presented to the Natural Product Affinity Group (NPAG) at Scripps Institution of Oceanography. La Jolla, 8 May 2015.
22. Maloney, K. N. "Mother Nature's medicine cabinet: Discovering new drugs at the bottom of the ocean, in the tallest trees of the rainforest, and everywhere in between." Keynote Speech at BE WiSE Overnight at the Sea Life Aquarium. Carlsbad, 1 May 2009; invited back for Keynote Speech at BE WiSE Overnight at the Birch Aquarium. La Jolla, 30 April 2010.
23. Maloney, K. N. "New medicines from marine bacteria." Saturday Science Club for Girls at the Reuben H. Fleet Science Center. San Diego, 13 October 2007.

## CONTRIBUTED TALKS

\* Undergraduate student co-authors

1. Maloney, K. N. "Hands-on NMR experience without the NMR: Using MestreNova to teach an undergraduate Organic Structure Elucidation course without an on-site high field NMR." 253rd National Meeting, American Chemical Society. San Francisco, 2 April 2017.
2. Papineau, M.\*; D'Elia, L.\*; Rolshausen, P. E.; Roper, M. C.; Maloney, K. N. "Bioassay-guided isolation and structure elucidation of a natural product inhibitor of *Xylella fastidiosa* from the endophytic fungus *Ulocladium* sp." 253rd National Meeting, American Chemical Society. San Francisco, 3 April 2017.
3. Davis, T.\*; Alvarado, O.\*; Okada, B.\*; Quach, K.\*; Shieh, V.\*; Brayton, C.\*; Maloney, K. N.; McFadden, C. S. "Analysis of secondary metabolite chemistry among the soft coral *Sarcophyton* species *glaucum*, *gemmatum*, and *trocheliophorum*." 38<sup>th</sup> West Coast Biological Sciences Undergraduate Research Conference. San Diego, 20 April 2013.
4. Maloney, K. N.; MacMillan, J.; Choi, Y.; van Breemen, R.; Kauffman, C. A.; Fenical, W. "Lodopyridone, a selective ligand for quinone reductase 2 from a marine-derived *Saccharomonospora* sp." 42<sup>nd</sup> Western Regional Meeting, American Chemical Society. Las Vegas, 26 September 2008.

## POSTER PRESENTATIONS

\* Undergraduate student co-authors

1. Hart, P.\*; Yang, C.\*; Drozd, C.; Roper, M. C.; Maloney, K. N. "Isolation and characterization of natural products from *Curtobacterium* sp. P1B5 with potential activity against *Candidatus Liberibacter asiaticus*." American Chemical Society National Meeting, San Diego, 24 March 2025.

2. Kamemoto, A. K.\*; Koontz, A. G.\*; Blacutt, A.; Nunez, F.; Roper, M. C.; Maloney, K. N. "Discovery of antibiotic natural products to treat citrus greening disease." 47th National Organic Chemistry Symposium, La Jolla, 28 June 2022.
3. Maloney, K. N.; Botts, R. T.; Davis, T. S.\*; Okada, B. K.\*; Maloney, E. M.\*; Leber, C. A.; Alvarado, O.\*; Brayton, C.\*; Caraballo, M.; Chari, J. V.\*; Chicoine, B.\*; Crompton, J. C.\*; Davis, S. R.\*; Gromek, S. M.; Kurnianda, V.; Quach, K.\*; Samples, R. M.; Shieh, V.\*; Sultana, C. M.\*; Tanaka, J.; Dorrestein, P. C.; Balunas, M. J.; McFadden, C. S. "Cryptic species account for the seemingly idiosyncratic secondary metabolism of *Sarcophyton glaucum* specimens collected in Palau." Gordon Research Conference in Marine Natural Products. Ventura, 26 February, 2020.
4. Brandenburg, C. A.\*; Lockner, J. W.; Maloney, K. N.; Castro, C.; Blacutt, A.; Roper, M. C.; Rolshausen, P. "Toward the synthesis of radicinin, an inhibitor of Pierce's disease and citrus greening disease." 257th National Meeting, American Chemical Society. Orlando, 31 March 2019.
5. Berry, V. D.\*; Cordoza, J. L.\*; Meloch, J. J.\*; Blacutt, A.; Roper, M. C.; Rolshausen, P.; Maloney, K. N. "Bioassay-guided isolation of fungal natural products for fighting citrus greening disease." 257th National Meeting, American Chemical Society. Orlando, 31 March 2019.
6. Lozano Salazar, L.\*; Cordoza, J. L.\*; Rolshausen, P.; Roper, M. C.; Maloney, K. N. "Isolation and formulation of radicinin as a microbial biopesticide against Pierce's Disease." 257th National Meeting, American Chemical Society. Orlando, 31 March 2019. (Won 1<sup>st</sup> place in AGFD Undergraduate Poster Competition.)
7. Davis, S.\*; Thompson, S.\*; Berry, V.\*; Brandenburg, C.\*; Rolshausen, P. E.; Roper, M. C.; Maloney, K. N. "Isolation and structure elucidation of alteichin, a fungal natural product that inhibits *Xylella fastidiosa*, the bacterium that causes Pierce's Disease." 255th National Meeting, American Chemical Society. New Orleans, 19 March 2018.
8. Maloney, E. M.\*; Chari, J.\*; Botts, R.; Davis, T. S.\*; Alvarado, O. A.\*; Chicoine, B. J. A.\*; Brayton, C.\*; McFadden, C. S.; Maloney, K. N. "Evaluating the relationship between chemical profiles and cryptic species of *Sarcophyton* soft corals in Palau using both supervised and unsupervised statistical learning." 253rd National Meeting, American Chemical Society. San Francisco, 3 April 2017.
9. Papineau, M.\*; D'Elia, L.\*; Rolshausen, P. E.; Roper, M. C.; Maloney, K. N. "Bioassay-guided isolation of secondary metabolite inhibitors of *Xylella fastidiosa* produced by endophytic fungi." 251st National Meeting, American Chemical Society. San Diego, 15 March 2016.
10. Semmler, L.\*; Sawada, J.\*; Steinhaus, M.\*; Reader, J.\*; Rolshausen, P. E.; Roper, C.; Ropicavoli, J.; Maloney, K. N. "Synthesis of a water-soluble radicinin derivative for use as an antibacterial agent in grapevines." 251st National Meeting, American Chemical Society. San Diego, 14 March 2016.
11. Steinhaus, M.\*; Reader, J.\*; Rouffet, M.; Aldrich, T.\*; Rolshausen, P.; Roper, M.; Maloney, K. "Synthesis of derivatives of the natural product radicinin that inhibit the plant pathogen *Xylella fastidiosa*," 249<sup>th</sup> National Meeting, American Chemical Society. Denver, 24 March 2015.

12. Davis, T. S.\*; Alvarado, O. A.\*; Chicoine, B. J. A.\*; Okada, B. K.\*; Quach, K.\*; Brayton, C.\*; Maloney, K. N.; McFadden, C. S. "Analysis of secondary metabolites from cryptic species of *Sarcophyton glaucum* suggests a genetic explanation for previously observed variation," 247<sup>th</sup> National Meeting, American Chemical Society. Dallas, 16 March 2014.
13. Aldrich T.\*; Maloney, K. N.; Rolshausen, P. E.; Roper, C. "Synthesis and biological evaluation of radicinin derivatives against *Xylella fastidiosa*, a bacterial pathogen of grapevines." 243<sup>rd</sup> National Meeting, American Chemical Society. San Diego, 26 March 2012.
14. Chan A.\*; Brown A.\*; Roy J.\*; McFadden C. S.; Maloney K. N. "The relative role of physical versus chemical defenses in soft corals of the genus *Sinularia*." 243<sup>rd</sup> National Meeting, American Chemical Society. San Diego, 26 March 2012.
15. Okada, B.\*; Quach, K.\*; Brayton, C.\*; Shieh, V.\*; McFadden, C. S.; Maloney, K. N. "Identification of cryptic species accounts for the seemingly idiosyncratic secondary metabolism of *Sarcophyton glaucum* specimens collected in Palau." 243<sup>rd</sup> National Meeting, American Chemical Society. San Diego, 26 March 2012.
16. Fielder, B. C.\*; Fung, M. H.\*; Olmsted, C. M.\*; Maloney, K. N. "Isolation and characterization of antibiotic depsipeptides produced by endophytic fungi from *Ribes viburnifolium*." 52<sup>nd</sup> Annual Meeting, American Society of Pharmacognosy. San Diego, 1 August 2011.
17. Aldrich T.\*; Rolshausen, P. E.; Roper, C.; Maloney, K. N. "Discovery of natural product inhibitors of *Xylella fastidiosa* from endophytic fungi." 52<sup>nd</sup> Annual Meeting, American Society of Pharmacognosy. San Diego, 1 August 2011.
18. Quach, K.\*; Okada, B.\*; Brayton, C.\*; Shieh, V.\*; McFadden, C. S.; Maloney, K. N. "Variation in secondary metabolite chemistry among cryptic species of the soft coral *Sarcophyton glaucum*." 52<sup>nd</sup> Annual Meeting, American Society of Pharmacognosy. San Diego, 1 August 2011.
19. Aldrich T.\*; Rolshausen, P. E.; Roper, C.; Maloney, K. N. "Progress toward the discovery of natural product inhibitors of *Xylella fastidiosa* from endophytic fungi." 241<sup>st</sup> National Meeting, American Chemical Society. Anaheim, 27 March 2011.
20. Roy, J. S.\*; Brown, A.\*; McFadden, C. S.; Maloney, K. N. "Trade-offs between the physical and chemical defenses of *Sinularia* soft corals." 241<sup>st</sup> National Meeting, American Chemical Society. Anaheim, 28 March 2011.
21. Fung, M. H.\*; Olmsted, C. M.\*; Maloney, K. N. "Progress toward the isolation and structure elucidation of antibiotic compounds produced by an endophytic fungus from *Ribes viburnifolium*." 241<sup>st</sup> National Meeting, American Chemical Society. Anaheim, 28 March 2011.
22. Maloney, K. N.; Nam, S.-J.; Gaudêncio, S.; MacMillan, J. B.; Sturdy, M.; Pegan, S.; Mesecar, A.; Choi, Y.; van Breemen, R.; Fenical, W.; Pezzuto, J. "X-ray crystallography- and mass spectrometry-based screens of natural product mixtures reveal potent and structurally novel quinone reductase 2 inhibitors from marine sediment bacteria." 100<sup>th</sup> Annual Meeting, American Association for Cancer Research. Denver, 20 April 2009.

23. Maloney, K. N.; MacMillan, J. B.; Kauffman, C. A.; Jensen, P. R.; Fenical, W. "The Iodopyridones: Modified peptides from a marine-derived *Saccharomonospora* sp." 7<sup>th</sup> Joint Meeting of AFERP, ASP, GA, PSE & SIF. Athens, 7 August 2008.
24. Maloney, K. N.; Fenical, W.; Clardy, J. "A natural products research program for implementation at a primarily undergraduate institution." 234<sup>th</sup> National Meeting, American Chemical Society. Boston, 20 August 2007.
25. Maloney, K. N.; Eggert, U.; Mitchison, T. J.; Smith, P. L.; Clapham, D. E.; Bayliss, P.; Roberts, T.; Clardy, J. "Academic screens of plant extracts yield new structures and new probes for biology." 46<sup>th</sup> Annual Meeting, American Society of Pharmacognosy. Corvallis, July 2005.
26. Maloney, K. N.; Schroeder, F. C.; Fujita, M.; Eggert, U.; Shaw, J.; Clardy, J. "High throughput screening of natural product extracts for cancer drug discovery." Symposium Celebrating Diversity in Organic Chemistry, Pfizer Global Research & Development. Groton, 17 September 2004.
27. Maloney, K. N.; Sasaki, T. "Synthesis of a Multivalent Carbohydrate Ligand." 219<sup>th</sup> National Meeting, American Chemical Society. San Francisco, 26 March 2000.
28. Maloney, K. N.; Swank, D. "Crystallographic Structure Determination of a CuBr<sub>2</sub>•pyridine Complex." Summer Research Symposium, MJ Murdock Charitable Trust. Nampa, 7 November 1998.

## EXTERNAL GRANTS

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|---|------------------|
| <p><i>USDA Citrus Disease Research and Extension (CDRE) Program</i>, co-investigator<br/>(with PD Caroline Roper and co-Is Robert Turgeon, Georgios Vidalakis, Philippe Rolshausen, Greg McCollum, David Jassby, Pieter Dorrestein, James Borneman and Jonathan Kaplan)<br/>Deployment of a Spectrum of Bactericides to Cure and Prophylactically Treat Citrus Huanglongbing.<br/>\$5,112,000 (\$131,207 for my part)</p> | <p>2017-2022</p> |
| <p><i>CDFA UC Pierce's Disease Research Grant</i>, co-PI<br/>(with PI Philippe Rolshausen and co-PIs Caroline Roper and James Borneman)<br/>Greenhouse evaluation of grapevine microbial endophytes and fungal natural products for control of Pierce's Disease.<br/>\$94,402 (\$17,759 for my part)</p>  | <p>2016-2017</p> |
| <p><i>NSF Scholarships in Science Technology Engineering and Math (S-STEM)</i>, PI<br/>(with co-PIs Maria Zack, Dawne M. Page, Lorinda Carter, and Paul Schmelzenbach)<br/>Scholarships to Support STEM majors Computational Sciences Minors<br/>\$576,750</p>  | <p>2015-2020</p> |
| <p><i>CDFA UC Pierce's Disease Research Grant</i>, co-PI<br/>(with PI Philippe Rolshausen and co-PI Caroline Roper, UC Riverside)<br/>Greenhouse Evaluation of Grapevine Fungal Endophytes and Fungal Natural Products Antagonistic to <i>Xylella fastidiosa</i> for Control of Pierce's Disease.<br/>\$175,007 (\$31,990 for my part)</p>  | <p>2014-2016</p> |

<i>Research Corporation Multiple Investigator-Cottrell College Science Awards, PI</i> (with Catherine McFadden, HMC Dept of Biology) Variation in secondary metabolite chemistry among cryptic species of the soft coral <i>Sarcophyton</i> , a source of bioactive cembranoids \$75,000	2010-2012
<i>American Society of Pharmacognosy Research Starter Grant, PI</i> Discovery of natural product inhibitors of <i>Xylella fastidiosa</i> from endophytic fungi \$5,000	2010
<i>National Science Foundation Major Research Instrumentation, co-PI</i> MRI: Acquisition of a Liquid Chromatograph-Ion Trap Mass Spectrometer for Undergraduate Research and Research Training \$234,310	2009

## HONORS AND AWARDS

Excellence in Teaching Award, PLNU	2021
Cancer Therapeutics Training Fellowship, UCSD Moores Cancer Center	2007-2009
Certificate of Distinction in Teaching, Harvard University	2006, 2005
American Chemical Society Travel Award	2005
American Society of Pharmacognosy Lynn Brady Travel Award	2005
NSF Graduate Research Fellowship	2001-2004
Herman & Margaret Sokol Fellowship	2001
Cornell University Graduate Fellowship	2000-2001
American Institute of Chemists Award (top chemistry senior)	2000
NSF REU Fellowship, University of Washington	1999
Barry Goldwater Scholarship	1998-2000
Olsen Fellowship for Undergraduate Research, PLU Department of Chemistry	1997-1998
Robert C. Byrd Scholarship	1996-2000
PLU Academic Scholarship	1996-2000

## SERVICE

2024-2026	Anonymous ACS National Award Selection Committee (2025-2027 award cycle; 2024 Chair)
2024	Immediate Past Chair, ACS Division of Organic Chemistry
2024	Symposium Organizer, 'Incorporating Research into the Undergraduate Organic Chemistry Laboratory,' co-hosted by CHED and ORGN at the Fall 2024 National ACS Meeting in Denver
2024-2025	Chair, Chemistry Tenure Track Faculty Search Committee, PLNU
2024	Chair, Chemistry Visiting Professor Search Committee, PLNU
2023-	Academic Policies Committee, PLNU
2023-	Audrey S. Bingel Fellowship Committee, American Society of Pharmacognosy
2023-2024	Publications Committee, American Society of Pharmacognosy
2023-2024	ACS Publications Awards Committees (member of three confidential committees)
2023	Chair, ACS Division of Organic Chemistry
2022	Chair-Elect, ACS Division of Organic Chemistry
2022, 2023	National Organic Symposium Organizing Committee

2021-2023	Anonymous ACS National Award Selection Committee (2022-2024 award cycle; 2023 Chair)
2020-	Tiny Earth Curriculum Committee (Chair, Tiny Earth Chemistry Course Working Group)
2018-2022	Councilor, ACS Division of Organic Chemistry Executive Committee (member of Awards, Membership, and Nomination Committees)
2022	Expert Reviewer: NSF Division of Ocean Sciences
2021	Rank & Tenure Committee, PLNU (one semester leave replacement)
2017-2019	Diversity Committee, PLNU (2018-19 Chair)
2013-2019	Pre-Health Committee, PLNU (conduct sophomore and junior pre-med interviews; provide feedback on application materials)
2013-	Goldwater Faculty Representative, PLNU (assist PLNU students applying for the Barry Goldwater Scholarship and coordinate final application submission)
2012-	Honors Project Committees <ul style="list-style-type: none"> <li>• 2024-25, Audrey Vazzana and Abbey Mandagie (advisor Ariane Jansma)</li> <li>• 2022-23, Andrew Kamemoto</li> <li>• 2022-23, Amanda Koontz</li> <li>• 2021-22, Olivia Owen</li> <li>• 2021-22, Heather Rainbow</li> <li>• 2021-22, Mahima Dixit (advisor Dianne Anderson)</li> <li>• 2018-19, Jennifer Cordoza</li> <li>• 2018-19, Connor Brandenburg (advisor Jonathan Lockner)</li> <li>• 2017-18, Sydney Davis</li> <li>• 2016-17, Morgan Papineau</li> <li>• 2015-16, Marcela Bucardo (advisor Dale Shellhamer)</li> <li>• 2015-16, Lindsay Semmler</li> <li>• 2015-16, Connor Voss (advisor Matthieu Rouffet)</li> <li>• 2014-15, Hannah Quinn (advisor Mike McConnell)</li> <li>• 2013-14, Taylor Davis</li> <li>• 2013-14, William Frye (advisor David Cummings)</li> <li>• 2012-13, Zachary Sedillo and Jack Rusing (advisor Mike Dorrell)</li> </ul>
2008-	Manuscript Reviewer: <i>Organic Letters</i> ; <i>Current Opinion in Microbiology</i> ; <i>Phytochemistry</i> ; <i>Journal of Natural Products</i> ; <i>Marine Drugs</i> ; <i>Scientific Reports</i> ; <i>Metabolites</i> ; <i>ACS Omega</i> ; <i>Journal of Undergraduate Chemical Research</i>
2018, 2019	Expert Reviewer: NSF S-STEM program, Citrus Research Board
2015-2017	Alternate Councilor, ACS Division of Organic Chemistry Executive Committee (member of Awards, Membership, and Nomination Committees)
2015-2016	2016 Organic Chemistry Examination Committee, ACS Division of Chemical Education Examinations Institute (co-wrote 2016 ACS Organic Chemistry examination)
2015-2016	Faculty Development Committee, PLNU (one year appointment)
2015	NSF Panelist (S-STEM program)
2015	Expert Reviewer: ACS Petroleum Research Fund Undergraduate New Investigator Research Grant program; North Carolina Biotechnology Center Biotechnology Research Grant program
2015	Enrollment Management Committee, PLNU (one year appointment)
2015	Commencement Honor Guard, PLNU
2015	Student Success Collaborative (SSC) Department Representative, PLNU
2013-2014	Faculty Status Committee, PLNU (elected for one-year position)

- 2012-2014 Member-At-Large, ACS Division of Organic Chemistry Executive Committee  
(*Chaired Membership Committee; member of Graduate Fellowship, Membership, and Communications Committees; headed up Social Media initiative*)
- 2013 Faculty Mentor, PLNU First Year Experience
- 2010-2011 Academic Affairs Committee, Harvey Mudd College
- 2010-2011 Assessment Committee, Harvey Mudd College
- 2010-2011 Seminar Coordinator, HMC Department of Chemistry
- 2008-2011 Workshop Leader, WEST Conference, Harvey Mudd College
- 2010 NSF Panelist (MRI program)
- 2009, 2010 Keynote Speaker, BE WiSE Overnight
- 2006-2009 Program Co-Chair, San Diego Expanding Your Horizons Conference
- 2009 Judge (AWIS), Greater San Diego Science and Engineering Fair
- 2007, 2008 Assistant Event Captain, San Diego Science Olympiad
- 2007, 2008 Volunteer, National Ocean Sciences Bowl
- 2007 Presenter, Reuben H. Fleet Saturday Science Club for Girls
- 2004-2005 Mentor, Boston Latin School Science Mentor Program
- 2003-2005 Emergency Department Volunteer, Brigham & Women's Hospital
- 2001, 2002 Transportation Chair, Cornell Expanding Your Horizons Conference
- 2000 Session Leader, Cornell University Materials Science Workshop
- 1998 Volunteer Tutor, Keithley Middle School 'Extra Innings' Program

### **PROFESSIONAL MEMBERSHIPS**

- American Chemical Society (*past Chair, Councilor, Alternate Councilor, and Member-at-Large on the Executive Committee of the Division of Organic Chemistry; member of ORGN, CHED, and AGFD technical divisions*)
- American Society of Pharmacognosy (ASP; *past member of the Younger Members Committee; current member of Audrey S. Bingel Fellowship Committee and Publications Committee*)
- Council on Undergraduate Research (CUR)
- Society for Industrial Microbiology and Biotechnology (SIMB)