

Curriculum Vitae
Adam Robert Urbach

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EDUCATION & POSITIONS HELD

Trinity University, Department of Chemistry, San Antonio, Texas

Professor	2014-present
Associate Professor	2010-2014
Assistant Professor	2004-2010

California Institute of Technology, Pasadena, California

Visiting Associate in Chemical Engineering	2011-2012
Sabbatical Host: David A. Tirrell	

Harvard University, Cambridge, Massachusetts

NIH NRSA Postdoctoral Fellow	2002-2004
Research Advisor: George M. Whitesides, "Nanoscale and Microscale Magnetic Materials and Self-Assembly; Biophysical Studies of Carbonic Anhydrase"	

California Institute of Technology, Pasadena, California

Ph.D. in Organic Chemistry	1996-2002
Research Advisor: Peter B. Dervan, "DNA Recognition by Beta-Alanine-Linked Polyamides"	

University of Texas at Austin, Austin, Texas

B.S. in Chemistry	1993-1996
Research Advisors: Jonathan L. Sessler and Thomas Kodadek, "Synthesis of Porphyrins and Expanded Porphyrins"	

PROFESSIONAL EDUCATION

Research Corporation for Science Advancement, American Chemical Society	2017
Academic Leadership Training (ALT) Workshop	

University of California at Berkeley, Center for Studies in Higher Education	2016
Executive Leadership Academy: Leading in a Multicultural and Global Environment	

FELLOWSHIPS & AWARDS

Research Corporation Cottrell Scholar (Inaugural class for PUI professors)	2015
Henry Dreyfus Teacher-Scholar Award	2009
National Science Foundation CAREER Award	2008
Trinity University Distinguished Junior Faculty Award	2007
Cottrell College Science Award	2006
National Institutes of Health NRSA Postdoctoral Fellow, Harvard	2003
National Science Foundation Graduate Fellow, Caltech	1996
Dean's Honored Graduate, UT Austin College of Natural Science	1996
Phi Beta Kappa, Alpha of Texas, UT Austin	1996

Outstanding Senior Award, ACS Central Texas Branch 1996
Pfizer Undergraduate Fellow in Synthetic Organic Chemistry, UT Austin 1995

PUBLICATIONS 1528 citations on 23 papers at Trinity with 32 undergraduate coauthors

(* indicates Corresponding Author; Undergraduate students are underlined)

Zoheb Hirani, Hailey F. Taylor, Emily F. Babcock, Andrew T. Bockus, C. Daniel Varnado, Jr., Christopher W. Bielawski, Adam R. Urbach*, "Molecular Recognition of Methionine-Terminated Peptides by Cucurbit[8]uril" (Article) *Journal of the American Chemical Society*, **2018**, *140*, 12263-12269.

Andrew T. Bockus and **Adam R. Urbach***, "Molecular Recognition of Aromatic Proteins and Peptides in Nature and by Design" in *Aromatic Interactions: Frontiers in Knowledge and Application*, Eds. Darren W. Johnson and Fraser Hof, **2017**, Royal Society of Chemistry, Cambridge, UK, DOI 10.1039/9781782626626.

Andrew T. Bockus, Lauren C. Smith, Amy G. Grice, Omar A. Ali, Carolyn C. Young, William Mobley, Ashley Leek, James L. Roberts, Brittany Vinciguerra, Lyle Isaacs, and **Adam R. Urbach***, "Cucurbit[7]uril-Tetramethylrhodamine Conjugate for Direct Sensing and Cellular Imaging" (article) *Journal of the American Chemical Society*, **2016**, *138*, 16549-16552.

Wei Li, Andrew T. Bockus, Brittany Vinciguerra, Lyle Isaacs*, and **Adam R. Urbach***, "Sequence-Predictive Recognition of Proteins by Cucurbit[7]uril in a Complex Mixture" (communication) *Chemical Communications* **2016**, *52*, 8537-8540.

Min Hyeon Shin, Jong Wha Lee, William Mobley, **Adam R. Urbach***, and Hugh I. Kim*, "Supramolecular Enhancement of Protein Analysis via the Recognition of Phenylalanine with Cucurbit[7]uril" (article) *Journal of the American Chemical Society* **2015**, *137*, 15322-15329.

Lauren C. Smith, David G. Leach, Brittney E. Blaylock, Omar A. Ali, and **Adam R. Urbach***, "Sequence-Specific, Nanomolar Peptide Binding via Cucurbit[8]uril-Mediated Folding and Inclusion of Neighboring Side Chains" (article) *Journal of the American Chemical Society*, **2015**, *137*, 3663-3669. *Highlighted by Chemical & Engineering News as a Science Concentrate; Selected by JACS as a Spotlight Article.*

Leigh A. Logsdon and Adam R. **Urbach***, "Sequence-Specific Inhibition of a Non-Specific Protease" (communication) *Journal of the American Chemical Society*, **2013**, *135*, 11414-11416.

Omar A. Ali, Eric M. Olson, and Adam R. **Urbach***, "Effects of Sequence Context on the Binding of Tryptophan-Containing Peptides by the Cucurbit[8]uril-Methyl Viologen Complex" (article) *Supramolecular Chemistry*, **2013**, *25*, 863-868.

Vijayakumar Ramalingam, Sharon K. Kwee, Lisa M. Ryno, and **Adam R. Urbach***, "A Cucurbit[8]uril Sponge" (communication) *Organic and Biomolecular Chemistry* **2012**, *10*, 8587-8589. *Selected as a Hot Article.*

Hari S. Muddana, C. Daniel Vernado, Christopher W. Bielawski, **Adam R. Urbach**, Lyle Isaacs, Matthew T. Geballe, and Michael K. Gilson*, "Blind Prediction of Host-Guest Binding Affinities: *curriculum vitae*"

a New SAMPL3 Challenge" (article) *Journal of Computer Aided Molecular Design* **2012**, *26*, 475-487.

Leigh A. Logsdon, Christopher L. Schardon, Vijayakumar Ramalingam, Sharon K. Kwee, and **Adam R. Urbach***, "Nanomolar Binding of Peptides Containing Noncanonical Amino Acids by a Synthetic Receptor" (article) *Journal of the American Chemical Society* **2011**, *133*, 17087-17092.

Adam R. Urbach, "Enduring DNA Binders" (invited commentary) *Nature Chemistry* **2011**, *3*, 836-837.

Vijayakumar Ramalingam and **Adam R. Urbach***, "Cucurbit[8]uril Rotaxanes" (communication) *Organic Letters*, **2011**, *13*, 4898-4901.

Jordan M. Chinai, Alexander B. Taylor, Lisa M. Ryno, Nicholas D. Hargreaves, Christopher A. Morris, P. John Hart, and **Adam R. Urbach***, "Molecular Recognition of Insulin by a Synthetic Receptor" (communication) *Journal of the American Chemical Society*, **2011**, *133*, 8810-8813. *Selected as a Spotlight Article*

Garima Ghale, Vijayakumar Ramalingam, **Adam R. Urbach***, and Werner M. Nau*, "Determining Protease Substrate Selectivity and Inhibition by Label-free Supramolecular Tandem Assays" (article) *Journal of the American Chemical Society*, **2011**, *133*, 7528-7535.

Adam R. Urbach* and Vijayakumar Ramalingam, "Molecular Recognition of Amino Acids, Peptides, and Proteins by Cucurbit[n]uril Receptors" (review) *Israel Journal of Chemistry*, **2011**, *51*, 664-678.

Frank Biedermann, Urs Rauwald, Monika Cziferszky, Kyle A. Williams, Lauren D. Gann, Bi Y. Guo, **Adam R. Urbach***, Christopher W. Bielawski*, and Oren A. Scherman*, "Benzobis(imidazolium)-Cucurbit[8]uril Complexes for Binding and Sensing Aromatic Compounds in Aqueous Solution" (article) *Chemistry A European Journal*, **2010**, *16*, 13716-13722.

Adam R. Urbach*, "Circular Dichroism Spectroscopy in the Undergraduate Curriculum" (invited column) *Journal of Chemical Education*, **2010**, *87*, 891-893.

Joseph J. Reczek, Elisa Rebolini, and **Adam R. Urbach***, "Solid-Phase Synthesis of Peptide-Viologen Conjugates" (technical note) *Journal of Organic Chemistry*, **2010**, *75*, 2111-2114.

Joseph J. Reczek, Aimee A. Kennedy, Brian T. Halbert, and **Adam R. Urbach***, "Multivalent Recognition of Peptides by Modular Self-Assembled Receptors" (article) *Journal of the American Chemical Society*, **2009**, *131*, 2408-2415.

Gretchen A. Vincil and **Adam R. Urbach***, "Effects of the Number and Placement of Positive Charges on Viologen-Cucurbit[n]uril Interactions" (article) *Supramolecular Chemistry*, **2008**, *20*, 681-687. *Featured on the Cover*

Preetika Rajgariah and **Adam R. Urbach***, "Scope of Amino Acid Recognition by Cucurbit[8]uril" (article) *Journal of Inclusion Phenomena and Macrocyclic Chemistry*, **2008**, *62*, 251-254.

Adam R. Urbach*, Christopher J. Pursell*, and John D. Spence "Supramolecular Chemistry: A Capstone Course" (article) *Journal of Chemical Education*, **2007**, *84*, 1785-1787.

Lisa M. Heitmann, Alex D. Taylor, P. John Hart, and **Adam R. Urbach***, “Sequence-Specific Recognition and Cooperative Dimerization of Aromatic Peptides in Aqueous Solution by a Synthetic Host” (article) *Journal of the American Chemical Society*, **2006**, *128*, 12574-12581.

Meghan E. Bush, Nicole D. Bouley, and **Adam R. Urbach***, “Charge-Mediated Recognition of N-Terminal Tryptophan in Aqueous Solution by a Synthetic Host” (article) *Journal of the American Chemical Society*, **2005**, *127*, 14511-14517.

Adam R. Urbach* and Michael J. Waring*, “Visualising DNA: Footprinting and 1-2D Gels” (review) *Molecular BioSystems*, **2005**, *1*, 287-293.

Adam R. Urbach*, “A New Faculty Perspective on the Philosophy of Teaching” **2005**, *Project Kaleidoscope, Volume IV: What Works, What Matters, What Lasts*, Feb. 4, <http://www.pkal.org> (invited commentary).

Vijay M. Krishnamurthy, George K. Kaufman, **Adam R. Urbach**, Irina Gitlin, Katherine L. Gudiksen, and George Whitesides*, “Carbonic Anhydrase as a Model for Biophysical and Physical-Organic Studies of Proteins and Protein-Ligand Binding” (review) *Chemical Reviews*, **2008**, *108*, 946-1051.

Katherine L. Gudiksen, Irina Gitlin, Jerry Yang, **Adam R. Urbach**, and George M. Whitesides* “Eliminating Positively Charged Lysine ϵ -NH₃⁺ Groups on the Surface of Carbonic Anhydrase Has No Significant Influence on Its Folding from Sodium Dodecyl Sulfate” (article) *Journal of the American Chemical Society*, **2005**, *127*, 4707-4714.

Katherine L. Gudiksen, **Adam R. Urbach**, Irina Gitlin, Jerry Yang, Jenny A. Vasquez, Catherine E. Costello, and George M. Whitesides* “The Influence of the Zn(II) Cofactor on the Refolding of Bovine Carbonic Anhydrase after Denaturation with SDS” (article) *Analytical Chemistry*, **2004**, *76*, 7151-7161.

Adam R. Urbach, J. Christopher Love, Mara G. Prentiss, and George M. Whitesides* “Sub-100 nm Confinement of Magnetic Nanoparticles Using Localized Magnetic Field Gradients” (communication) *Journal of the American Chemical Society*, **2003**, *125*, 12704-12705.

J. Christopher Love, **Adam R. Urbach**, Mara G. Prentiss, and George M. Whitesides* “Three Dimensional Self-Assembly of Metallic Rods with Submicron Diameters Using Magnetic Interactions” (communication) *Journal of the American Chemical Society*, **2003**, *125*, 12696-12697.

Adam R. Urbach, “One-to-One Motif for DNA Recognition by Beta-Alanine-Linked Polyamides” Ph. D. Thesis, California Institute of Technology, **2002**.

Michael A. Marques, Raymond M. Doss, **Adam R. Urbach**, and Peter B. Dervan* “Toward an Understanding of the Chemical Etiology for DNA Minor Groove Recognition by Polyamides” (article) *Helvetica Chimica Acta*, **2002**, *85*, 4485-4517. *Featured on the Cover*

Adam R. Urbach, John J. Love, Scott L. Ross, and Peter B. Dervan* “Structure of a Beta-Alanine-Linked Polyamide Bound to a Full Turn of Purine Tract DNA in the 1:1 Motif” (article) *Journal of Molecular Biology* **2002**, *320*, 55-71.

Adam R. Urbach and Peter B. Dervan* "Toward Rules for 1:1 Polyamide:DNA Recognition" (communication) *Proceedings of the National Academy of Sciences USA* **2001** *98*, 4343-4348.

Peter B. Dervan* and **Adam R. Urbach** In *Essays in Contemporary Chemistry. From Molecular Structure toward Biology*; Quinkert, G., Kisakurek, M. V., Eds.; Verlag Helvetica Chimica Acta, Zurich **2001**, pp. 327-339 (invited book chapter).

Adam R. Urbach, Jason W. Szewczyk, Sarah White, James M. Turner, Eldon E. Baird, and Peter B. Dervan* "Sequence Selectivity of 3-Hydroxypyrrole/Pyrrole Ring Pairings in the DNA Minor Groove" (article) *Journal of the American Chemical Society* **1999** *121*, 11621-11629.

Jonathan L. Sessler,* John W. Genge, **Adam Urbach**, and Petra A. Sansom "A '3+1' Approach to Monofunctionalized Alkyl Porphyrins" (communication) *Synlett* **1996** *2*, 187-188.

GRANTS \$2.6M in grants as PI at Trinity

Active

NIH-R15 (PI, Adam Urbach 87%, CoPI Lyle Isaacs 13%) \$400,281, 9/19/17-9/18/20 (R15-GM126511-01).

NSF-MRI (PI, Adam Urbach; coPIs, Christina Cooley, Laura Hunsicker-Wang, Corina Maeder) \$274,770, 8/14/17-8/13/20 (CHE-1726441).

Research Grant, Welch Foundation (PI, Adam Urbach) \$240,000, 6/1/16-5/31/19 (W-1640).

Cottrell Scholars Collaborative, Research Corporation for Science Advancement (PI, Adam Urbach; Co-PIs Andriy Nevidomskyy at Rice University, Penny Beuning at Northeastern University, Robert Berger at Western Washington University, Shane Ardo at University of California at Irvine, and Yan Xia at Stanford University) \$25,000, 9/1/2017-8/31/2019.

Completed

Research Corporation Cottrell Scholar LEAD Award (PI, Adam Urbach) \$25,000, 1/16-12/17 (Grant #23825).

NSF-RUI (PI, Adam Urbach) \$330,000, 9/13-8/17 (CHE-1309978).

Research Grant, Welch Foundation (PI, Adam Urbach) \$225,000, 6/13-5/16 (W-1640).

Supplement for NSF-CAREER (PI, Adam Urbach) \$29,500, 6/10-12/13 (CHE-0748483).

NSF-MRI (PI, Nancy Mills; Co-PIs, Jessica Hollenbeck, Laura Hunsicker-Wang, Adam Urbach) \$498,500, 1/10-12/12 (CHE-0957839).

Henry Dreyfus Teacher Scholar Award, \$60,000, 11/09-10/14.

Research Grant, Welch Foundation (PI, Adam Urbach) \$150,000, 6/09-5/13 (W-1640).

NSF-CAREER (PI, Adam Urbach) \$564,950, 1/08-12/13 (CHE-0748483).

NSF-MRI (PI, Adam Urbach; Co-PIs, Bert Chandler, Frank Healy, Jessica Hollenbeck, Laura Hunsicker-Wang) \$108,620, 8/07-7/10 (BIO-0718766).

Research Grant, Welch Foundation (PI, Adam Urbach) \$150,000, 6/06-5/09 (W-1640).

Cottrell College Science Award, Research Corporation (PI, Adam Urbach) \$38,880, 6/06-5/08.

Type G Grant, Petroleum Research Fund (PI, Adam Urbach) \$35,000, 9/05-8/07.

NSF-MRI (PI, Michelle Bushey; Co-PIs, Jonathan King, James Shinkle, Adam Urbach) \$128,000, 5/05-5/08.

CONFERENCE PRESENTATIONS 27 invited and selected talks on work done at Trinity

- 13th International Symposium on Macrocyclic and Supramolecular Chemistry, June 10, 2018, Quebec City, Canada (poster was selected for a short talk)
- 5th International Conference on Cucurbiturils, Brno, Czech Republic, June 28, 2017 (invited speaker)
- Workshop de Quimica Biologica, Pontificia Universidad Catolica de Chile, Santiago, Chile, *May 3, 2017* (plenary speaker)
- 251st American Chemical Society National Meeting, Supramolecular Chemistry, a Crown & Anchor Approach, San Diego, CA, *Mar. 16, 2016* (invited speaker)
- 251st American Chemical Society National Meeting, Inorganic Poster Session, San Diego, CA, *Mar. 15, 2016* (poster)
- 251st American Chemical Society National Meeting, Molecular Recognition and Self-Assembly, San Diego, CA, *Mar. 14, 2016* (speaker and session chair)
- Symposium in Honor of Peter B. Dervan, California Institute of Technology, Pasadena, CA, *March 12, 2016* (invited speaker)
- Pacificchem 2015, Honolulu, HI, *December 18, 2015* (invited speaker)
- 4th International Conference on Cucurbiturils, Tianjin, China, *Oct. 9, 2015* (invited speaker)
- Graduate Research Symposium, ACS Division of Organic Chemistry, Austin, TX, *July 26, 2015* (plenary speaker)
- National Science Foundation Workshop on Supramolecular Chemistry in Water, Washington, DC, *June 3, 2015* (invited speaker)
- Gordon Research Conference on the Chemistry and Biology of Peptides, Ventura, CA, *Feb. 24, 2014* (invited speaker)
- 3rd International Conference on Cucurbiturils, Canberra, Australia, *Nov. 19, 2013* (invited speaker)
- Gordon Research Conference on Self-Assembly and Supramolecular Chemistry, Les Diablerets, Switzerland, *May 5-10, 2013* (poster was selected for a short talk)
- 3rd Conference on Catalysis and Sensing for the Environment (CASE), Austin, TX, *April 11, 2013* (invited speaker)
- 243rd American Chemical Society National Meeting, San Diego, CA, *Mar. 28, 2012* (speaker)
- 2nd International Conference on Cucurbiturils, Cambridge, England, *July 1, 2011* (invited speaker)
- Mesilla Workshop on Aromatic Interactions in Chemistry and Biology, Mesilla, NM, *Feb. 8, 2011* (invited speaker)

- Dreyfus Teacher-Scholar Symposium, New York City, *Oct. 29, 2010* (invited poster)
- National Science Foundation Workshop on MSN, Washington, DC, *June 14, 2010* (invited speaker)
- 5th International Symposium on Macrocyclic and Supramolecular Chemistry (ISMSC), Nara, Japan, *June 9, 2010* (speaker)
- RISE Area Conference: Frontiers in Chemical Biology, San Juan, Puerto Rico, *April 24, 2010* (plenary speaker)
- National Science Foundation Workshop on Physical Organic Chemistry, Austin, TX, *Jan 9, 2010* (invited speaker)
- American Chemical Society Southwest Regional Meeting, El Paso, TX, *Nov. 5, 2009* (speaker)
- US-China Early Career Workshop in Supramolecular Chemistry, Beijing, China, *Oct. 28, 2009* (invited speaker)
- 10th International Conference on Calixarene Chemistry, Seoul, Korea, *July 15, 2009* (poster)
- 1st International Conference on Cucurbiturils, Pohang, Korea, *July 10, 2009* (invited speaker)
- *Academic Young Investigators Symposium*, 237th American Chemical Society National Meeting, Philadelphia, PA, *August 17, 2008* (invited speaker)
- 3rd International Symposium on Supramolecular and Macrocyclic Chemistry (ISMSC), Las Vegas, NV, *July 15, 2008* (speaker)
- 9th International Conference on Calixarene Chemistry, College Park, MD, *Aug. 6, 2007* (poster)
- Workshop on Cucurbit[n]uril Molecular Containers, College Park, MD, *Aug. 5, 2007* (invited speaker)
- Gordon Research Conference on Bioorganic Chemistry, Andover, NH, *June 13-14, 2007* (poster)
- 1st International Symposium on Macrocyclic and Supramolecular Chemistry (ISMSC), Victoria, British Columbia, *June 27, 2006* (poster)
- Pacifichem 2005, Honolulu, HI, *Dec. 17, 2005* (speaker)
- Pacifichem 2005, Honolulu, HI, *Dec. 19, 2005* (poster)

UNIVERSITY SEMINARS 39 invited seminars on work done at Trinity

- University of Wisconsin at Madison, Department of Chemistry, *April 24, 2018*
- University of Texas at San Antonio, College of Science, *Oct. 7, 2016*
- California Institute of Technology, Department of Chemistry, *Mar. 12, 2016*
- University of Georgia, Department of Chemistry, *Feb. 26, 2016*
- Fudan University, Department of Chemistry, China, *Oct. 12, 2015*
- Southwest Research Institute, *July 16, 2015*
- POSTECH, Korea, Department of Chemistry, *June 30, 2015*
- UNIST, Korea, Department of Chemistry, *June 25, 2015*
- UT Health Science Center at San Antonio, Department of Biochemistry, *Oct. 24, 2014*
- Florida State University, Department of Chemistry, *Oct. 17, 2013*
- ETH Zürich, Switzerland, *May 3, 2013*
- Jacobs University Bremen, Germany, *June 22, 2012*
- University of Twente, The Netherlands, *June 21, 2012*

- Radboud University Nijmegen, The Netherlands, *June 20, 2012*
- Eindhoven University of Technology, The Netherlands, *June 19, 2012*
- Ohio University, Department of Chemistry, *April 23, 2012*
- North Dakota State University, Department of Chemistry, *April 12, 2012*
- New Mexico State University, Department of Chemistry, *April 5, 2012*
- Harvey Mudd College and Pomona College, *Jan. 31, 2012*
- UC San Diego, Department of Chemistry and Biochemistry, *Oct. 17, 2011*
- San Diego State University, Department of Chemistry, *Sept. 30, 2011*
- University of San Diego, Department of Chemistry, *Sept. 29, 2011*
- University of Southern California, School of Pharmacy, *Sept. 16, 2011*
- California Institute of Technology, Tirrell Group, *Sept. 15, 2011*
- California Institute of Technology, Dervan Group, *Aug. 23, 2011*
- University of Houston, Department of Chemistry, *Feb. 21, 2011*
- University of Maryland, Department of Chemistry and Biochemistry, *Oct. 28, 2010*
- Georgetown University, Department of Chemistry, *Oct. 27, 2010*
- New York University, Department of Chemistry, *Oct. 26, 2010*
- Texas Tech University, Department of Chemistry and Biochemistry, *April 7, 2010*
- University of Miami, Department of Chemistry, *February, 19, 2010*
- Texas Christian University, Department of Chemistry, *Dec. 3, 2009*
- *Distinguished Alumni Lecture*, University of Texas at Austin, Department of Chemistry and Biochemistry, *March 27, 2009*
- University of Oregon, Department of Chemistry, *October 17, 2008*
- Rice University, Department of Chemistry, *May 7, 2008*
- Tulane University, Department of Chemistry, *April 21, 2008*
- University of Oklahoma, Department of Chemistry and Biochemistry, *March 28, 2008*
- *Harry Crate Lecture*, Schreiner University, *March 3, 2008*
- University of Texas at Dallas, Department of Chemistry, *October 17, 2007*

OTHER PRESENTATIONS

- “Careers at Primarily Undergraduate Institutions” Brandeis University, Dec. 2, 2016
- “Careers at Primarily Undergraduate Institutions” Tufts University, Dec. 1, 2016
- “Careers at Primarily Undergraduate Institutions” MIT, Nov. 30, 2016
- “Careers at Primarily Undergraduate Institutions” Harvard University, Nov. 30, 2016
- “Careers at Primarily Undergraduate Institutions” Northeastern University, Nov. 29, 2016
- “Careers at Primarily Undergraduate Institutions” Boston University, Nov. 29, 2016
- “Careers at Primarily Undergraduate Institutions” UC Los Angeles, Nov. 16, 2016 (speaker)
- “Careers at Primarily Undergraduate Institutions” UC Santa Barbara, Nov. 15, 2016
- “Careers at Primarily Undergraduate Institutions” Caltech, Nov. 11, 2016 (speaker)
- “Careers at Primarily Undergraduate Institutions” University of Southern California, Nov. 10, 2016 (speaker)
- “Careers at Primarily Undergraduate Institutions” The Scripps Research Institute, Nov. 8, 2016 (speaker)
- “Careers at Primarily Undergraduate Institutions” UC San Diego, Nov. 8, 2016 (speaker)
- “Careers at Primarily Undergraduate Institutions” UC Riverside, Nov. 7, 2016 (speaker)
- “Lunch with a Scientist” ScienceWriters 2016, Oct. 30, 2016 (speaker)

- “Careers at Primarily Undergraduate Institutions” UT Austin, Sept. 9, 2016 (speaker)
- “Opportunistic Chemistry” Trinity University Computer Science Colloquium, Nov. 17, 2015 (speaker)
- “Careers at Primarily Undergraduate Institutions” Caltech Postdoctoral Association Pasadena, CA, Jan. 26, 2012 (speaker)

COLLABORATORS & AFFILIATIONS

Advisor to 51 undergraduate research students, 4 post-baccalaureate research associates, and 6 postdoctoral fellows since 2004

Prof. David Bardelang, Aix-Marseille Universite, France
 Prof. Christopher Bielawski, UNIST, Korea
 Prof. Christina Cooley, Trinity University
 Prof. Michael Gilson, UC San Diego
 Prof. P. John Hart, UT Health Science Center San Antonio
 Prof. Lyle Isaacs, University of Maryland
 Prof. Hugh Kim, Korea University
 Prof. John Love, San Diego State University
 Prof. Dany Munoz-Pinto, Trinity University
 Prof. Werner Nau, Jacobs University Bremen, Germany
 Prof. Christopher Pursell, Trinity University
 Prof. James Roberts, Trinity University
 Prof. Oren Scherman, Cambridge University, England
 Prof. John Spence, Cal State Sacramento
 Prof. Michael Waring, Cambridge University, England

SERVICE

Professional Service

- Editorial Board of *Supramolecular Chemistry*, 2011-present
- Co-Organizer for the 6th International Conference on Cucurbiturils, 2019
- Guest Editor, Israel Journal of Chemistry, Special Issue on Cucurbiturils and Related Cavitands, 2017
- PI for the Research Corporation Cottrell Scholar Collaborative project on improving faculty mentoring (5 co-PIs, and partnering with the American Chemical Society and American Physical Society), 2017-present
- PhD Thesis Committees, 3 students (Univ. Miami, Eindhoven University, University of New South Wales)
- Tenure/Promotion reviews, 3 candidates
- Grant Reviewer
 - Marion Mason Award for AAAS
 - Murdoch Trust
 - National Science Foundation Panel, 2009, 2010, 2016
 - National Science Foundation ad hoc reviewer

- Research Corporation ad hoc reviewer
- ACS Petroleum Research Fund ad hoc reviewer
- Biomedical Research Council ad hoc reviewer
- Hong Kong Baptist University ad hoc reviewer
- Netherlands Organisation for Scientific Research (NWO) ad hoc reviewer
- National Science Foundation Workshops
 - Cucurbit[n]uril Molecular Containers, 2007
 - Physical Organic Chemistry, 2010
 - Macromolecular, Supramolecular, and Nano, 2010
 - Supramolecular Chemistry in Water, 2015
- Manuscript Referee

ACS Chemical Biology, Advanced Functional Materials, Advanced Materials, Amino Acids, Angewandte Chemie, Bioorganic and Medicinal Chemistry, Biopolymers, Chem, Chemical Communications, Chemical Science, Chemistry Asian Journal, Chemistry European Journal, Crystal Engineering Communications, Current Organic Chemistry, Israel Journal of Chemistry, Journal of Agricultural and Food Chemistry, Journal of the American Chemical Society, Journal of Chemical Education, Journal of Inclusion Phen. and Macrocyclic Chemistry, Journal of Medicinal Chemistry, Journal of Molecular Modeling, Journal of Organic Chemistry, Journal of Physical Chemistry, Journal of Physical Organic Chemistry, Langmuir, Nature Chemistry, Natural Products, New Journal of Chemistry, Nucleic Acids Research, Organic Letters, Science, Small, Soft Matter, Supramolecular Chemistry, Tetrahedron Letters
- Other:
 - Host for Postdoc to PUI Professor (P3) Workshop, 2017 (Trinity)
 - Panelist at Postdoc to PUI Professor (P3) Workshop, 2015 (Hope), 2016 (Furman), 2018 (U San Diego)
 - Panelist at Postdoc to Faculty (P2F) Workshop, 2016 (ACS Philadelphia)
 - Consultant to Willamette University for building a program in undergraduate research, August 2010
 - Reviewed Chapter Reports for the American Chemical Society Student Affiliates, 2009

University Service

- Convener, Faculty Workload Task Force 2.0, Spring 2018-present
- DeCoursey Lecture Committee, 2016-present
- Advisory Board of IMPACT Magazine, 2015-present
- Health Professions Advisory Committee, 2005-present
- Geoscience Faculty Search Committee, external member, 2017-18
- University Curriculum Council, Fall 2017
- Secretary, Phi Beta Kappa, 2016
- University Task Force on Faculty Workload, Chair, 2015-2016
- High Noon Lunch on Successful Academic Student Organizations, spring 2016
- Spoke on behalf of the faculty at the presidential inauguration, spring 2016
- Chair of the Faculty Senate 2014-2016
 - General oversight
 - Setting agendas and chairing meetings and retreats

- Meetings with trustee leadership
- Biweekly meetings with president and vice presidents
- Annual university budget retreat
- Liaison to many faculty groups and university administrators (admissions, development, finance, etc.)
- Faculty Governance sessions with Stephen Lewis
- Budget Advisory Committee meetings
- Editorial Board of the Trinity Magazine, 2015
- Presidential Transition Team, Spring 2015
- Presidential Search Committee, Fall 2014
- Faculty Marshall at Commencement, Spring 2014, Fall 2014, Spring 2015
- Vice-Chair/Chair-Elect of the Faculty Senate, 2012-2014
 - Executive Committee
 - Outreach Committee
 - Tenure Track Faculty Leave Committee
- Workload/Course Load Advisory Committee to Vice President for Faculty and Student Affairs, 2013
- Faculty Advisor to the Honor Council, 2010-11
- Faculty Gold Room Committee, Fall 2009-11
- University Conduct Board, Fall 2009-10
- Faculty Development Committee, 2009-10 (summer stipends)
- McNair Program on Careers in Academia, 2009, 2010
- Meeting with Presidential Search Committee, Spring 2009
- Liaison for Academic Affairs and Faculty Senate on 3/2 Initiative, Spring 2009
- Faculty Search Committee, Department of Psychology, 2008-09
- Faculty Search Committee, Dept. of Sociology and Anthropology, 2007-08
- Faculty Senate, 2006-2008
 - Faculty Workload Committee (Chair), Spring 2007-Fall 2008
 - Budget Advisory Committee, Spring 2006-Spring 2008
 - Faculty Wine and Cheese Reception Committee, Fall 2008
 - Liaison to the Honor Council Advisory Board, Spring 2006-Fall 2008
 - Grade Appeal Reform Committee (Chair), Fall 2006
- Participated in Showcase of Student Academic Talent, 2005, 2006, 2008, 2013
- Scientific Computing Minor Committee, 2004-05
- Judge for Engineering Science Dept. Truss Competition, 2004, 2005

Department Service

- NMR Site Coordinator, 2008-09, 2015-present
- Departmental Web Champion (of the world), 2017-present
- Faculty Advisor, ACS Student Affiliates, Trinity University, 2004-2010, 2014-2016; Chapter Awards, 2004-05, 2005-06, 2006-07, 2007-08, 2008-09, 2009-10, 2014-15
- Trinity Tower Scholars Day, 2013, 2014, 2015, 2016, 2018
- Faculty Search Committees, 2004, 2005, 2013, 2014, 2016, 2017
- Summer Research Program Coordinator, 2013, 2014

- Department Seminar Coordinator, 2010-11
- McGavock Lecture Organizer, 2006, 2007, 2013, 2014, 2015, 2017
- Biochemistry/Molecular Biology Committee, 2006-2013
- Maintenance of Departmental Email Lists, Fall 2004 - Fall 2008
- Trinity in Focus/360, once per year
- Maintenance of Departmental Scientific Instrumentation, every year
- Beckman Scholar Search Committee, Spring 2006
- STEM-PC Committee, Spring 2006
- Trinity Science Experience, Spring 2006
- Department Seminar co-organizer, Spring 2006
- Thesis Committees, Katie Balena, Spring 2005; Claire Walker, 2006

TEACHING

- Fall 2018
CHEM 2320, Organic Chemistry 2, 19 students
CHEM 2320, Organic Chemistry 2, 29 students
CHEM 3190, Independent Study, 4 students
CHEM 4399, Honors Thesis, 2 students
- Spring 2018
CHEM 2319, Organic Chemistry 1, 41 students
CHEM 4347, Advanced Interdisciplinary Topics, 17 students
CHEM 3190, Independent Study, 5 students
- Fall 2017
CHEM 2320, Organic Chemistry 2, 31 students
CHEM 2220, Chemical Synthesis Laboratory, 32 students
CHEM 3290, Independent Study, 1 student
CHEM 3190, Independent Study, 4 students
- Summer 2017
CHEM 3190, Independent Study, 7 students
CHEM 1190, Independent Study, 1 student
- Spring 2017
Administrative Leave
CHEM 3290, Independent Study, 1 student
CHEM 1190, Independent Study, 1 student
- Fall 2016
Academic Leave
CHEM 3190, Independent Study, 4 students
- Summer 2016
CHEM 3190, Independent Study, 4 students
CHEM 1190, Independent Study, 2 students
- Spring 2016
CHEM 2319, Organic Chemistry, 42 students
CHEM 1190, Independent Study, 2 students
- Fall 2015
CHEM 2320, Organic Chemistry II, 31 students
CHEM 4346, Advanced Interdisciplinary Topics, 10 students
- Summer 2015
CHEM 3190, Independent Study, 3 students
- Spring 2015
CHEM 2319, Organic Chemistry I, 42 students
CHEM 2319, Organic Chemistry I, 49 students
- Fall 2014
CHEM 2320, Organic Chemistry II, 23 students
CHEM 4346, Advanced Interdisciplinary Topics, 5 students
CHEM 4399, Honors Thesis, 1 student

- Summer 2014 CHEM 3190, Independent Study, 5 students
- Spring 2014 CHEM 4347, Advanced Interdisciplinary Topics, 13 students
CHEM 2130, Advanced Chemical Principles Lab, 15 students
CHEM 3190, Independent Study, 2 students
- Fall 2013 CHEM 2320, Organic Chemistry II, 26 students
CHEM 2220, Chemical Synthesis Laboratory, 29 students
CHEM 3190, Independent Study, 4 students
- Summer 2013 CHEM 3190, Independent Study, 5 students
- Spring 2013 CHEM 2319, Organic Chemistry, 41 students
CHEM 2130, Advanced Chemical Principles Lab, 23 students
CHEM 3290, Independent Study, 1 student
- Fall 2012 CHEM 2320, Organic Chemistry II, 40 students
CHEM 2220, Chemical Synthesis Laboratory, 35 students
CHEM 3290, Independent Study, 1 student
- Summer 2012 CHEM 3190, Independent Study, 6 students
- Spring 2012 Academic Leave
- Winter 2012 Ch144a (Caltech), Advanced Organic Chemistry, 10 students
- Fall 2011 Academic Leave
- Summer 2011 CHEM 3190, Independent Study, 2 students
- Spring 2011 CHEM 4347, Advanced Interdisciplinary Topics, 4 students
CHEM 2130, Advanced Chemical Principles Lab, 19 students
- Fall 2010 CHEM 2320, Organic Chemistry II, 36 students
CHEM 2220, Chemical Synthesis Laboratory, 40 students
- Summer 2010 CHEM 3190, Independent Study, 3 students
- Spring 2010 CHEM 4242, Advanced Analytical Methods, 12 students
CHEM 4347, Advanced Interdisciplinary Topics, 10 students
CHEM 3190, Independent Study, 2 students
- Fall 2009 CHEM 2220, Chemical Synthesis I, 29 students
- Summer 2009 CHEM 3190, Independent Study, 5 students
- Spring 2009 CHEM 2319, Organic Chemistry, 47 students
CHEM 2180, Biomolecular Research Methods, 8 students
CHEM 4347, Advanced Interdisciplinary Topics, 8 students
CHEM 3190, Independent Study, 4 students
- Fall 2008 CHEM 1318, General Chemistry, 57 students
CHEM 2320, Organic and Bioorganic Chemistry, 27 students
CHEM 3190, Independent Study, 3 students
- Summer 2008 CHEM 3190, Independent Study, 4 students, full time
- Spring 2008 CHEM 4347, Advanced Interdisciplinary Topics, 6 students
CHEM 2119, Organic Laboratory, 17 students
CHEM 2180, Biomolecular Research Methods, 4 students
CHEM 4399, Honors Thesis, 1 student
CHEM 3190, Independent Study, 1 student
- Fall 2007 CHEM 2320, Organic and Bioorganic Chemistry, 32 students
CHEM 2220, Synthesis I Laboratory, 31 students

- Summer 2007 CHEM 4399, Honors Thesis, 1 student
- Spring 2007 CHEM 3190, Independent Study, 7 students, full time
- CHEM 4347, Advanced Interdisciplinary Topics, 7 students
- CHEM 2119, Organic Laboratory, 22 students
- CHEM 2180, Biomolecular Research Methods, 7 students
- CHEM 3190, Independent Study, 3 students
- Fall 2006 CHEM 2320, Organic and Bioorganic Chemistry, 20 students
- CHEM 2220, Synthesis I laboratory, 21 students
- CHEM 3190, Independent Study, 3 students
- Summer 2006 CHEM 3190, Independent Study, 5 students, full time
- Spring 2006 CHEM 4347, Advanced Interdisciplinary Topics, 8 students
- CHEM 3221, Synthesis II laboratory, 20 students
- CHEM 3190, Independent Study, 3 students
- Fall 2005 CHEM 2320, Organic and Bioorganic Chemistry, 33 students
- CHEM 3190, Independent Study, 3 students
- Course Development of CHEM/BIOIOL 2180
- Summer 2005 CHEM 3190, Independent Study, 4 students, full time
- Spring 2005 CHEM 4347, Advanced Interdisciplinary Topics, 6 students
- CHEM 3221, Synthesis II laboratory, 18 students
- CHEM 4399, Honors Thesis, 1 student
- CHEM 3190, Independent Study, 5 students
- Fall 2004 CHEM 2320, Organic and Bioorganic Chemistry, 34 students
- CHEM 2220, Synthesis I laboratory, 24 students
- CHEM 4399, Honors Thesis, 1 student
- CHEM 3190, Independent Study, 1 student
- Spring 2004 Ch105 (Harvard) Guest Lecturer, Physical Organic Chemistry
- Winter 2002 Ch41b (Caltech) Head TA, Guest Lecturer, Organic Chemistry
- Winter 2001 Ch41b (Caltech) Teaching Assistant, Organic Chemistry
- Winter 1999 Ch1b (Caltech) Recitation Instructor, Demo TA, General Chemistry
- Fall 1998 Ch 1a (Caltech) Recitation Instructor, General Chemistry
- Fall 1997 Ch 1a (Caltech) Recitation Instructor, General Chemistry

OTHER ACTIVITIES

- Member of the American Chemical Society, 1995-present
- Member of the American Association for the Advancement of Science, 2015-present
- Scientific Advisory Board for Intratab Labs Inc, 2016
- Scientific Advisory Board for Formex LLC, 2013-2015