

Sean T. Roberts

University of Texas at Austin ▪ Department of Chemistry
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Education

Massachusetts Institute of Technology (Cambridge, MA)

Ph.D. in Chemistry, Awarded February 2010

Thesis: Hydrogen Bond Rearrangements and the Motion of Charge Defects in Water Viewed using Multidimensional Ultrafast Infrared Spectroscopy.

University of California Los Angeles (Los Angeles, CA)

B.S. in Chemistry, Physical Chemistry Concentration, Completed May 2003

Highest Departmental Honors, Summa Cum Laude

Employment & Research History

Associate Professor University of Texas at Austin, Dept. of Chemistry (September 2020 – present)

Fellow of the W. T. Doherty Professorship in Chemistry (August 2025 – present)

Fellow of the William H. Wade Endowed Professorship in Chemistry (July 2021 – August 2022)

Assistant Professor University of Texas at Austin, Dept. of Chemistry (January 2014 – August 2020)

Postdoctoral Research Associate (January 2010 – November 2013)

University of Southern California, Department of Chemistry

Advisors: Stephen Bradforth & Alexander Benderskii

Doctoral Candidate (August 2003 – December 2009)

Massachusetts Institute of Technology, Department of Chemistry

Advisor: Andrei Tokmakoff

Undergraduate Researcher (August 2001 – July 2003)

University of California Los Angeles, Department of Chemistry

Advisor: Benjamin Schwartz

Awards

ACS Richard Van Duyne Early Career Award in Experimental Physical Chemistry (2026)

ACS Partners in Progress & Prosperity (P3) Award (2024)

Sloan Research Fellowship (2020)

Cottrell Scholars Award (2018)

National Science Foundation CAREER Award (2017)

Rom Rhome Endowed Teaching Excellence Award (2017)

Rom Rhome Professional Development Award (2016)

ACS Petroleum Research Fund Doctoral New Investigator Award (2015)

Natural Sciences Foundation Advisory Council Teaching Award (2014)

Postdoctoral:

Adamson Postdoctoral Research Award (2012)

Burg Postdoctoral Teaching Fellowship (2012)

American Chemical Society Postdoctoral Research Award (2011)

NSF American Competitiveness in Chemistry Postdoctoral Fellowship (ACC-F) (2009-2011)

Graduate:

Coblentz Society Student Award (2009)

FACSS Student Poster Award (2009)

Morse Travel Grant (2008)

Massachusetts Institute of Technology Presidential Fellowship (2003-2004)

Undergraduate:

Phi Beta Kappa Graduate Fellowship (2003)

Ramsey Award (2003)

Arnold O. Beckman Undergraduate Research Fellowship (2002-2003)

University of California Los Angeles Summer Research Scholarship (2002)

Research Funding

Active Grants:

- 1. Achieving IR-to-Visible Light Upconversion with Lanthanide-Doped Quantum Dots**
Sponsor: The Welch Foundation; Grant Number: F-2301-20260402
Renewable (single investigator); \$351,000; 6/1/26 – 5/31/29
- 2. MPS/CHE-EPSRC: A New Framework for Exploring and Exploiting Quantum Correlations in Molecular Singlet Fission**
Sponsor: National Science Foundation / UK Research and Innovation (UKRI); Grant Number: CHE-2544563; (one of 5 co-PIs; Jake Iles-Smith (Univ. of Sheffield) lead PI), \$655,882 + £500,000 (\$352,882 to Roberts); 9/1/25 – 8/31/28
- 3. Developing Structure-Function Relationships for Singlet Fission and Exciton Transport in Molecular Crystals via Selective Application of Strain**
Sponsor: National Science Foundation (CHE: CSD); Grant Number: CHE-2451921; Roberts Lead PI; co-PIs: Michael A. Cullinan (UT Austin) & Narayana Aluru (UT Austin); \$750,687 (\$406,337 to Roberts); 4/1/25 – 3/31/28
- 4. Center for Dynamics and Control of Materials**
Sponsor: National Science Foundation (DMR); Grant Number: DMR-2308817
MRSEC Center (Roberts is one of 10 co-PIs for IRG 1 & the Center Education & Outreach Director; Edward Yu (UT Austin) lead PI); \$18,050,000 (~\$594,270 to Roberts); 9/1/23 – 8/31/29
- 5. Controlling Energy Distribution Pathways in Designer Photocatalysts for Efficient Polymer Synthesis**
Sponsor: National Science Foundation (CHE: CAT); Grant Number: CHE-2155017
Renewable (Collaborative grant w/ Zachariah A. Page (UT Austin); Page lead PI, Roberts co-PI); \$625,000 (\$303,811 to Roberts); 9/1/22 – 8/31/26
- 6. Manufacturing of Silicon-based Hybrid Organic:inorganic Quantum Building Blocks**
Sponsor: National Science Foundation (CMMI); Grant Number: CMMI-2053567
LEAP-HI Grant (one of 4 co-PIs; Lorenzo Mangolini (UC Riverside) lead PI); \$2,000,000 (\$499,844 to Roberts); 8/1/21 – 7/31/26
- 7. Harnessing Silylethynyl-modified Polycyclic Aromatic Hydrocarbons for Sustainable Photon Upconversion and Photocatalysis**
Sponsor: American Chemical Society – Petroleum Research Fund; Grant Number: 68346-ND4
New Directions Grant (single investigator); \$125,000; 1/1/25 – 8/31/27
- 8. Manipulating Light's Energy Content for Improved Solar Harvesting and 3D Printing**
Sponsor: UT Austin College of Natural Sciences
Spark Grant: \$200,000; 6/1/22 – 5/31/26

Completed Projects:

- 1. CCI Phase I: NSF Center for Adopting Flaws as Features (CAFF)**
Sponsor: National Science Foundation (CHE); Grant Number: CHE-2124983
CCI Phase 1 Center (one of 8 co-PIs; Christy F. Landes (UIUC) lead PI); \$1,800,000 (\$230,526 to Roberts); 9/1/21 – 2/28/26
- 2. MRI: Development of a Sub-diffraction Limited Microscope for Imaging Ultrafast Dynamics from the Visible to Mid-infrared Spectral Range**
Sponsor: National Science Foundation (CHE); Grant Number: CHE-2019083

- MRI Track II Development Grant (Roberts Lead PI with 2 co-PIs: Carlos R. Baiz (UT Austin) & James D. Batteas (Texas A&M)); \$1,436,577; 9/1/20 – 8/31/24
3. **Creating Functional Nanocrystal-Molecule Interfaces for Spin-triplet Energy Transfer**
Sponsor: National Science Foundation (CHE: MSN); Grant Number: CHE-2003735
Renewable (single investigator); \$450,000; 9/1/20 – 8/31/24
 4. **Uncovering Design Rules for Triplet Energy Transfer at Organic/Inorganic Interfaces**
Sponsor: W. M. Keck Foundation; Grant Number: 22605
Science & Engineering Grant (Roberts Lead PI with 2 co-PIs: Michael J. Rose (UT Austin) & Joel D. Eaves (CU Boulder)); \$1,278,500 (\$568,295 to Roberts); 8/1/19 – 7/31/24
 5. **Designing Supramolecular Assemblies for Photon Splitting**
Sponsor: The Welch Foundation; Grant Number: F-1885
Renewable (single investigator); \$240,000; 6/1/21 – 5/31/24
 6. **Fuel-Driven Polymer and Nanocrystal Assemblies**
Sponsor: Center for Dynamics and Control of Materials (NSF MRSEC); IRG Seed (one of 10 co-PIs; Adrienne M. Rosales (UT Austin) lead PI); \$160,000 (~\$10,000 to Roberts); 9/1/21 – 8/31/23
 7. **Understanding Electron Dynamics in Molecular Semiconductors**
Sponsor: Sloan Foundation
Sloan Research Fellowship; \$75,000; 9/1/20 – 8/31/23
 8. **CAREER: Tracking Charge and Energy Transfer at Buried Organic Interfaces**
Sponsor: National Science Foundation (CHE: CSDM-A); Grant Number: CHE-1654404
NSF CAREER Award (single investigator); \$624,612; 3/15/17 – 3/14/23
 9. **Tracking Spin-Entangled Excitons Produced by Singlet Fission**
Sponsor: Center for Dynamics and Control of Materials (UT Austin NSF MRSEC)
Single Investigator Seed; \$100,000; 9/1/20 – 8/31/22
 10. **Engineering Quantum Dynamics of Molecular Emitters**
Sponsor: UT Austin College of Natural Sciences
Catalyst Grant (Roberts Lead PI w/ Xiaoqin Elaine Li co-PI); \$50,000 (\$25,000 to Roberts); 6/1/20 – 8/31/22
 11. **Cottrell Scholars Collaborative (CSC) for a Science Communication Enabled Community**
Sponsor: Research Corporation for Science Advancement;
Cottrell Scholars Collaborative Project (one of 10 co-PIs); \$25,000; 9/15/18 – 9/14/22;
Purpose: Funds Support Creation of a Science Communication Workshop for Chemistry Faculty
 12. **Pulling and Pushing on Molecules: A Mechanical Platform for Discovery of Fundamental Material Properties and Design of Molecular Electronics**
Sponsor: UT Austin Office of the Vice President for Research
APX Seed Program (w/ Michael Cullinan co-PIs); \$100,000 (\$50,000 to Roberts); 1/1/21 – 12/31/21
 13. **Tracking Singlet Fission with Ultrafast Time-resolved Microscopy and A Focused Research Experience for Community College Students**
Sponsor: Research Corporation for Science Advancement; Grant Number: 24489
Cottrell Scholars Award (single investigator); \$100,000; 7/1/18 – 12/31/21
 14. **Repackaging Electronic Energy with Molecular Semiconductors**
Sponsor: The Welch Foundation; Grant Number: F-1885
Renewable (single investigator); \$250,000; 6/1/18 – 5/31/21
 15. **Controlling the Conductivity of Nanocrystal Solids through their Surface Chemistry**
Sponsor: National Science Foundation (CHE: MSN); Grant Number: CHE-1610412
Renewable (single investigator); \$437,352; 9/1/16 – 8/31/20

- 16. Mapping Singlet Exciton Fission and Energy Transport Pathways in Perylene Diimide Thin Films and Crystals with Femtosecond Time-resolved Spectroscopy**
 Sponsor: The Welch Foundation; Grant Number: F-1885
 Renewable (single investigator); \$195,000; 6/1/15 – 5/31/18
- 17. Visualizing Molecular Organization and Energy Transport Dynamics at Organic Surfaces and Heterojunctions with Interface Specific Femtosecond Spectroscopy**
 Sponsor: American Chemical Society – Petroleum Research Fund; Grant Number: 55184-DN16
 Doctoral New Investigator (single investigator); \$110,000; 1/1/15 – 5/31/17
- 18. GRen Energy At Texas (GREAT): Increasing Student Retention in the Physical Sciences**
 Sponsor: American Chemical Society
 Collaborative Research Grant (w/ Co-PI: Dr. Shawn Amorde, Austin Community College)
 \$2,500 + \$2,500 match from UT Austin; 9/1/16 – 8/31/17
- 19. Tracking Energy Relaxation within Plasmonic Metal Oxide Nanocrystals**
 Sponsor: Air Force Office of Scientific Research (RTB2); Grant Number: FA9550-15-1-0344
 Non-renewable (single investigator); \$100,000; 9/1/15 – 8/31/16
- 20. Using Surface Ligands to Electrically Wire Semiconducting Nanocrystals**
 Sponsor: UT Austin Office of the Vice President for Research
 Faculty Research Grant; \$6,000; 10/22/15 – 8/31/16
- 21. Exciton Transport and Charge Separation in Organic Solar Cells Visualized with Interface Specific Femtosecond Spectroscopy**
 Sponsor: National Science Foundation (CHE: CSDM-A); Grant Number: CHE-0937015
 American Competitiveness in Chemistry Postdoctoral Fellowship (ACC-F)
 \$200,000; 10/1/09 – 9/30/12

Students, Postdoctoral Researchers & Visiting Scholars Advised

Postdoctoral Scholars:

Dr. Jussi Isokuortti (October 2022 – May 2025): Postdoctoral Scholar, Rice University
 Dr. Dabin Kim (September 2022 – September 2024): Postdoctoral Scholar: Johns Hopkins University
 Dr. Kelly S. Wilson (Co-advised with Carlos Baiz: January 2021 – June 2024): nLIGHT Defense Systems
 Dr. Laura Estergreen (Co-advised with Carlos Baiz: January 2021 – October 2022): Samsung
 Dr. Jacob M. Strain (Co-advised with Michael Rose: November 2020 – August 2022): Lumina Materials
 Dr. Max A. Verkamp (September 2019 – July 2022): Assistant Professor, Hanover College
 Dr. Ravindra Pandey (October 2014 – April 2017): Associate Professor, IIT Roorkee

Graduate Students:

Ashley N. Kilmnick (October 2025 – present)
 Kate V. Sherlock (October 2025 – present)
 Kaylin Thonsgaard (October 2025 – present)
 Benjamin A. Van Schaick (October 2025 – present)
 Madeleine Pastore (October 2024 – present)
 Rosemary T. Nguyen (October 2023 – present)
 Cristobal (Toby) A. Lopez (October 2023 – present)
 Naomi C. Jones (Co-advised with Carlos Baiz: November 2022 – present)
 Xinyi Wu (October 2022 – present)
 Margaret A. Hebert (October 2022 – present)
 Celena L. Marsters (November 2021 – present)
 Seth R. Allen (October 2021 – present)
 Tanner S. Volek (October 2021 – present)
 Honghao Wang (October 2018 – present)
 Boxi (Cam) Li (October 2019 – December 2024, PhD): Engineer at Intel

Brittany R. Pollok (Co-advised with Michael Rose: October 2018 – July 2024, PhD): Tower Semiconductor
Danielle M. Cadena (September 2019 – July 2024, PhD): Engineer at Intel
Daniel E. Cotton (October 2016 – May 2022, PhD): Postdoctoral Researcher at USC
Emily K. Raulerson (October 2016 – May 2021, PhD): Engineer at nLIGHT Defense Systems
Jon A. Bender (October 2014 – December 2020, PhD): Scientist at Nulixir Inc.
Michelle A. Blemker (September 2015 – September 2020, PhD): Senior Integration Scientist at Illumina
Michael S. Azzaro (December 2013 – May 2019, PhD): Process Line Engineer at Intel
Aaron P. Moon (December 2013 – May 2019, PhD): Process Line Engineer at Tower Semiconductor
Aaron K. Le (December 2013 – June 2019, PhD): Process Line Engineer at Tower Semiconductor
Atlantis Frost (Co-advised with Lauren Webb: November 2016 – December 2017)

Masters Students:

Melchior Deschamps (April 2025 – present, Exchange Student, École Normale Supérieure Paris-Saclay)

Undergraduate Students:

Emilio Garza (August 2025 – present)
Camille Carlaga (May 2025 – present)
James Herget (January 2025 – present, FUSE program)
Jimmy Pham (January 2025 – present, FUSE program)
Killian R. Nelson (October 2024 – present)
Vladimir G. Moreno (January 2024 – present, FUSE program)
Paulina Lopez (January 2024 – present, FUSE program)
Ulisses D. Braga (August 2023 – December 2025)
Aidan M. Fitzgerald (October 2023 – December 2024): Graduate Student at Northwestern, Chemistry
Tai-Aji A. Alzona (March 2023 – May 2024): MGC Pure Chemicals America, Inc.
Jacqueline Stamatedes (August 2023 – December 2023): AustinPx
Sridevi Sai Krishnachaitanya (September 2022 – July 2023)
Gulu (Kevin) Xiong (January 2022 – May 2023): Graduate Student at UC Berkeley, Chemistry
Eden Chen (January 2021 – May 2022)
Thomas Goodman (September 2021 – May 2022)
Filippos Kallivokas (March 2019 – December 2021): Grad. Student at Johns Hopkins Univ., Biomol. Eng.
Shoshannah C. Isom (January 2021 – May 2021)
Inki Lee (October 2017 – May 2020): Graduate Student at Columbia Univ., Chemistry
Annie L. Zhang (January 2018 – May 2020): Graduate Student at Univ. of Michigan, Communications
Cole Hoffman (September 2018 – May 2019): Graduate Student at CU Anschutz, Biostatistics
James J. Hall (April 2018 – August 2018)
Benjamin A. Renard (September 2015 – December 2017)
Diana Y. Zhang (July 2016 – May 2017): Graduate Student at Univ. of Minnesota, Chemical Engineering
Brooks T. Clingman (March 2017 – May 2017): Graduate Student at MIT, Chemical Engineering
Mirna M. Gonzalez (August 2015 – December 2016): High School Science Teacher, Pasadena, CA
John Gao (January 2016 – December 2016)
Jacob P. Anderson (June 2016 – December 2016): MD Candidate, Harvard Medical School
Zachary Tobin (September 2016 – December 2016): Graduate Student at Texas A&M, Chemistry
Mark C. Babin (June 2014 – July 2016): PhD UC Berkeley, Chemistry; Postdoc, Harvard Univ.

NSF Research Experiences for Undergraduate (REU) Students:

Russel Manzanarez (June 2025 – July 2025)
Josue Osorio (June 2022 – July 2022)
Alexandra Friestman (June 2021 – July 2021)
Kelly Biv (June 2021 – July 2021): Graduate Student at USC, Chemistry

Austin Community College Students Advised through CREATE:

Paige Melancon (May 2024 – July 2024): Accepted to UT Austin
Quinci Rogers (June 2023 – July 2023): Accepted to UT Austin

Lauren Brown (June 2022 – August 2023): Accepted to Texas A&M
 Kathryn Wegler (June 2022 – July 2022)
 Jessica Tanner Boette (June 2019 – May 2022): Graduate Student at Pitt, Chemistry
 Kira Daniel (June 2019 – December 2019)
 William Chau (June 2021 – July 2021): Accepted to UT Austin, Biomedical Engineering
 Adam Peasley (June 2018 – July 2018): Accepted to UT Dallas
 Mitchell Haecker (June 2017 – July 2017): Accepted to Texas A&M

High School Students:

Alexis Kim (Welch Summer Scholar: June 2024 – July 2024)
 Benjamin Li (Welch Summer Scholar: June 2018 – July 2018): Accepted to UT Austin
 Abhilash Potluri (Welch Summer Scholar: June 2017 – July 2017): Accepted to UT Austin
 Lauren Dossett (Welch Summer Scholar: June 2016 – July 2016): Accepted to MIT
 Kelby Erickson (Welch Summer Scholar: June 2015 – July 2015): Accepted to UT Austin

NSF Research Experiences for Teachers (RET) Advisees:

Masen Huddleston (June 2024 – July 2024)
 Larry McKenzie (June 2024 – July 2024)
 Ruben Ramirez (June 2023 – July 2023)
 Yvonne Rodriguez (June 2023 – July 2023)
 Hollis Horton (June 2022 – July 2022)
 Jennifer Sladek (June 2022 – July 2022)

Courses Taught

<i>Course Taught</i>	<i>Course Title</i>	<i>Enrollment</i>	<i>Instructor Rating (Course Rating)</i>	<i>% of Enrolled Students Responding</i>
CH393L/354S (Spring 2026)	Spectroscopy (Grad.) / Elements of Spectroscopy (Undergrad.)	36	NA	NA
CH354 (Fall 2025)	Quantum Mechanics & Molecular Spectroscopy	48	4.7 (4.4)	56%
CH354 (Fall 2024)	Quantum Mechanics & Molecular Spectroscopy	30	4.9 (4.7)	59%
CH393L/354S (Spring 2024)	Spectroscopy (Grad.) / Elements of Spectroscopy (Undergrad.)	23	4.9 (4.6)	61%
CH354 (Fall 2023)	Quantum Mechanics & Molecular Spectroscopy	19	5.0 (4.9)	58%
CH393L/354S (Spring 2023)	Spectroscopy (Grad.) / Elements of Spectroscopy (Undergrad.)	18	4.7 (4.5)	67%
CH354 (Fall 2022)	Quantum Mechanics & Molecular Spectroscopy	36	4.5 (4.4)	64%
CH393L/354S (Fall 2021)	Spectroscopy (Grad.) / Elements of Spectroscopy (Undergrad.)	24	5.0 (4.9)	56%
CH353 (Spring 2021)	Physical Chemistry I: Thermodynamics & Kinetics	84	4.9 (4.4)	44%
CH393L/354S (Fall 2020)	Spectroscopy (Grad.) / Elements of Spectroscopy (Undergrad.)	26	4.5 (3.9)	50%
CH382M/368 (Spring 2020)	Advanced Physical Chem. (Grad.): Time-dependent Quantum Mech.	11	4.7 (4.6)	82%
CH353 (Fall 2019)	Physical Chemistry I: Thermodynamics & Kinetics	81	4.8 (4.3)	59%
CH353 (Spring 2019)	Physical Chemistry I: Thermodynamics & Kinetics	91	4.7 (4.2)	80%
CH354 (Spring 2018)	Quantum Mechanics & Molecular Spectroscopy	55	4.9 (4.6)	58%

CH353 (Fall 2017)	Physical Chemistry I: Thermodynamics & Kinetics	76	4.9 (4.6)	70%
CH354 (Spring 2017)	Quantum Mechanics & Molecular Spectroscopy	38	4.9 (4.6)	87%
CH354L (Fall 2016)	Physical Chemistry II: Quantum Mechanics	60	4.6 (4.0)	80%
CH353 (Spring 2016)	Physical Chemistry I: Thermodynamics & Kinetics	76	4.8 (4.5)	84%
CH353M (Fall 2015)	Physical Chemistry I: Thermodynamics for Life Sciences	148	4.5 (3.9)	66%
CH353 (Spring 2015)	Physical Chemistry I: Thermodynamics & Kinetics	80	4.6 (4.1)	45%
CH353 (Spring 2014)	Physical Chemistry I: Thermodynamics & Kinetics	81	4.7 (4.1)	58%

Educational Activities

Education/Outreach Director: Center for Dynamics and Control of Materials (Spring 2022 – present)

- Coordinates educational and outreach programs operated by the Center for Dynamics and Control of Materials (CDCM), a NSF MRSEC based at UT Austin
- Key outreach activities include NSF REU and RET programs, the K-12 STUFF program, the CDCM Industry-University Nexus, and the artist in residence Arts+Sciences program.

Connecting Research & Education At TEexas (CREATE) (Spring 2017 – present)

Austin Community College (ACC) & University of Texas at Austin, Department of Chemistry

Program Website: www.CREATE-ATX.org, Twitter: @Create_ATX

- Co-created with Dr. Shawn Amorde (ACC). CREATE works to improve community college student retention in the physical sciences by building mentorship relationships between ACC students and UT faculty through summer research projects and a spring research symposium series held at ACC.
- Currently Funded by NSF awards CHE-2451921, DMR-2308817, CHE-2155017, & CMMI-2053567
- 89 program participants over 9 years, >2/3 of which have transferred to 4-year universities.
- News Stories Featuring CREATE: [“CREATE Program Brings Research Opportunities to Community College Students”](#) March 2023;
- Awarded the Partners in Progress & Prosperity (P3) Award by the ACS Southwest Region in 2024

Chemistry Honors 2125 (Spring 2019 – present)

Austin Community College (ACC) & University of Texas at Austin, Department of Chemistry

- Honors organic chemistry course co-created with Dr. Shawn Amorde (ACC) that introduces students to research through preparation of a library of compounds with utility for solar energy production.
- Funded by Research Corporation for Science Advancement as an expansion of CREATE.

Student Group Presentations & Faculty Panels

UT Austin High School “Demo Day” (UT Austin, November 2024)

Research Experiences for Teachers Career Discussion Panel (UT Austin, July 2024)

FUSE “Fundamentals of Research” Discussion Leader (UT Austin, January 2025, January 2024)

Research Internships Discussion Panel (Austin Community College, October 2023)

Graduate School 101 Workshop (UT Austin, June 2025, June 2024, July 2023, June 2022)

CREATE Seminar (Austin Community College, November 2022)

ACS Texas A&M Student Chapter (Texas A&M, October 2022)

CAFF Seminar Organizer & Discussion Leader (Austin Community College, April 2023, April 2022)

CDCM REU Faculty Presentation (UT Austin, July 2021)

CDCM REU Lunch & Learn with Faculty (UT Austin, July 2021)

Professional Development Seminar on Faculty Jobs Panel Participant (UT Austin, August 2018)

SURE “Graduate School at UT” Faculty Panel Participant (UT Austin, September 2017)

NSF CAREER Award Q&A Faculty Discussion Panel Participant (UT Austin, April 2017)
Omega Chi Epsilon (OXE) Graduate School Q&A Panel Participant (UT Austin, February 2017)
ACS UT Austin Student Chapter (UT Austin, April 2018, April 2016, May 2015)
College of Natural Sciences Dean's Scholars (UT Austin, November 2019, October 2015)
Graduate School Fair "Is Graduate School for Me?" Faculty Panel Participant (UT Austin, October 2015)
Welch Summer Scholars (UT Austin, July 2019, June 2015)
SURGe (UT Austin, November 2014)
College of Natural Sciences Professional Development Panel Participant (UT Austin, May 2014)

Cerritos College Summer Research Program (Summer 2010, Summer 2011, Summer 2012)
University of Southern California, Department of Chemistry

- Implemented an undergraduate summer research program between USC and Cerritos Community College (CCC). Led student selection and recruitment and served as a research mentor.
- Alumni are enrolled in or have finished PhD programs at Univ. of Chicago and Univ. of Washington.

Burg Postdoctoral Teaching Fellowship (Spring 2012)
University of Southern California, Department of Chemistry

- Co-taught Chemistry 115B, a second semester introductory honors chemistry course.

Teaching Assistant (Fall 2003, Spring 2005)
Massachusetts Institute of Technology Department of Chemistry

Editorial Work & Professional Service

Advisory Editorial Board Member: Chemical Physics Letters (January 2026 – present)

ACS PHYS Energy Subdivision Chair (September 2021 – December 2024)

- Responsible for identifying key symposia topics for national ACS meetings.

Guest Editor: Journal of Chemical Physics (Fall 2023)

- Special Issue "*Celebrating 25 Years of Two-dimensional Infrared (2D IR) Spectroscopy*"
- Co-editors: Prof. Carlos Baiz (UT Austin), Prof. Jens Breidenbeck (Goethe Univ.), Prof. Minhaeng Cho (Korea Univ.), Prof. Thomas Jansen (Univ. of Groningen), and Prof. Amber Krummel (Colorado St. Univ.); JCP Editor: Prof. Jennifer Ogilvie (Univ. of Michigan)

Symposium & Workshop Organization

ACS Symposium on Ultrafast & Nonlinear Spectroscopy

American Chemical Society Joint SWRM/SERMACS Meeting, October 2025, Orlando, FL

- Co-organizer, with Dr. Paul Ohno (Auburn) & Dr. Bryan Kudisch (Florida State Univ.), of an ACS symposium focused advancements in ultrafast spectroscopy and its application to chemical systems.

Coherent Multidimensional Spectroscopy 2022 (June 20-24, 2022, University of Texas at Austin)

- Co-organizer with Prof. Carlos Baiz (UT Austin) of an international conference with >200 attendees focused on new trends in coherent time-resolved spectroscopy and microscopy.

ACS Symposium on Energy and Charge Transfer at Nanoscale Interfaces

American Chemical Society National Meeting, Spring 2022, San Diego, CA

- Co-organizer, with Dr. Katherine Willets (Temple) and Dr. Libai Huang (Purdue), of an ACS symposium focused on energy and charge migration in nanostructured materials. Symposium was a follow up to one organized in 2018 and focused on new developments made over the prior 4 years.

ACS Symposium on Uncovering Chemical Structure & Dynamics with Light

American Chemical Society Southwest Regional Meeting, Fall 2021, Austin, TX

- Co-organizer, with Dr. Carlos Baiz (UT Austin), of an ACS symposium focused on the development of spectroscopic tools and theoretical methods for viewing chemical dynamics.

Communicating Ideas Workshop (October 2019, Washington DC)

- Co-organized with Prof. Scott Shaw (Univ. of Iowa), Prof. Tom Markland (Stanford), Prof. Chad Risko (Univ. of Kentucky), Eric Hegg (Michigan St.), and Lauren Waters (Univ. of Wisconsin, Oshkosh), a workshop focused on improving PI science communication to the general public.

ACS Symposium on Energy and Charge Transfer at Nanoscale Interfaces

American Chemical Society National Meeting, Spring 2018, New Orleans, LA

- Co-organizer, with Dr. Katherine Willets (Temple) and Dr. Libai Huang (Purdue), of an ACS symposium focused on energy and charge migration in nanostructured materials.

2016 Southwest Ultrafast Conference (June 16-17, 2016, University of Texas at Austin)

- Co-organizer with Prof. Carlos Baiz (UT Austin) of a symposium on ultrafast nonlinear spectroscopy sponsored by Coherent, Inc. that featured 17 speakers and >100 registered attendees.

Journal Publications

1. S. G. Lewis, C. L. Marsters, D. E. Cotton, B. R. Pollok, A. R. Caplin, M. J. Rose, S. T. Roberts, & J. D. Eaves, “Steric-induced Bending and Energy Level Shifts Induced by Covalently Bonding Anthracene to Si(111)” *Submitted*. [ChemRxiv Preprint](#).
2. D. Kim, C. Guo, J. Yang, P. Tu, Q. He, D. N. Mangel, A. C. Sedgwick, S. Sun, V. M. Lynch, S. T. Roberts, & J. L. Sessler, “*Trans-meso*-di(pyren-1-yl)calix[4]pyrrole: A Fluorescence-Tunable Ion Pair Receptor Allowing White Light Emission” *Submitted*.
3. B. R. Pollok, A. R. Caplin, S. T. Roberts, & M. J. Rose, “Steric Bulk & Solubility Provide Synthetic Access and Insight into Non-symmetric Perylene diimide Synthesis” *Submitted*.
4. H. S. Kim, N. T. Almada, E. A. Recker, S. R. Allen, J. Ju, C. J. O’Dea, B. S. Saada, M. G. Handojo, K. N. Halwachs, A. M. Rosales, S. T. Roberts, & Z. A. Page, “Oxygen Tolerant Green Light Photopolymerizations with Type I Boron-Alkylated BODIPYs: The Power of a Methylene” *Chem*, (2026), *Accepted*.
5. S. G. Lewis, K. Wang, N. Q. Nguyen, A. Gonzalez, H. Wang, T. C. Siu, L. Mangolini, S. T. Roberts, T. A. Su, J. D. Eaves, & M. L. Tang, “Flexible Dimethylsilylene Bridges in Silicon Quantum Dot-Anthracene Adducts Promote Triplet Energy Transfer” *Chem. Sci.* (2026), DOI: 10.1039/d6sc00926c.
6. B. M. Chandler, W. J. Chang, S. T. Roberts, L. X. Chen, D. J. Milliron, & R. D. Schaller, “Nanocrystal-to-Ligand Interfacial Thermal Transport: Plasmonic ITO to Perylene Diimide Adsorbates” *ACS Nano*, **20**(5), 4617-24, (2026).
7. X. Wu, D. M. Cadena, J. Isokuortti, C. J. O’Dea, A. M. Fitzgerald, A. M. Engstrom, Z. A. Page, & S. T. Roberts, “Through-bond Electronic Coupling and Strong Ligand Binding Facilitate Blue-to-UV Photon Upconversion by CsPbBr₃ Quantum Dots” *ACS Energy Lett.* **10**, 5485-92, (2025).
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From Undergraduate Work:

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Conference Proceedings

1. S. T. Roberts, P. B. Petersen, K. Ramasesha, & A. Tokmakoff, "The dynamics of aqueous hydroxide ion transport probed via ultrafast vibrational echo experiments," in *Ultrafast Phenomena XVI*, edited by P. Corkum, S. De Silvestri, K. A. Nelson, E. Riedle, & R. W. Schoenlein, (Springer-Verlag, Berlin, 2008).
2. J. J. Loparo, S. T. Roberts, & A. Tokmakoff, "2D IR spectroscopy of hydrogen bond switching in liquid water," in *Ultrafast Phenomena XV*, edited by P. Corkum, D. Jonas, D. Miller, & A. M. Weiner, (Springer-Verlag, Berlin, 2006).
3. C. J. Fecko, J. D. Eaves, J. J. Loparo, S. T. Roberts, A. Tokmakoff, & P. L. Geissler, "Dynamics of hydrogen bonds in water: Vibrational echoes and two-dimensional infrared spectroscopy," in *Ultrafast Phenomena XIV*, edited by T. Kobayashi, T. Okada, T. Kobayashi, K. A. Nelson, & S. De Silvestri, (Springer-Verlag, Berlin, 2004).
4. J. J. Loparo, C. J. Fecko, J. D. Eaves, S. T. Roberts, & A. Tokmakoff, "A unified analysis of ultrafast vibrational and orientational dynamics of HOD in D₂O," in *Ultrafast Phenomena XIV*, edited by T. Kobayashi, T. Okada, T. Kobayashi, K. A. Nelson, & S. De Silvestri, (Springer-Verlag, Berlin, 2004).

Patents

1. K. S. Wilson, T. S. Volek, N. Gross, S. Link, C. R. Baiz, & S. T. Roberts, "Transient Absorption Microscopy using Widefield Lock-in Camera Imaging" U.S. Provisional Patent Application No. 63/838,260 filed July 3, 2025.
2. Z. A. Page, C. J. O'Dea, J. Isokuorrtti, & S. T. Roberts, "Photocurable Composition and Uses Thereof." U.S. Provisional Patent Application No. 63/669,366 filed July 10, 2024.

Invited Oral Presentations (past and future)

1. Texas Tech University, Chemistry Department Seminar, Lubbock, TX, October 2026.
2. ACS National Meeting, Chicago, IL, August 2026.
3. 3M Company, Maplewood, MN, August 2026.
4. International Symposium on Singlet Fission and Photon Fusion, Tokyo, Japan, July 2026.
5. ACS National Meeting, Atlanta, GA, March 2026.
6. University of Oklahoma, Chemistry Department Seminar, Norman, OK, February 2026.
7. Pacificchem 2025, Honolulu, HI, December 2025. (2 Invited Presentations)
8. Northern Arizona University, ¡MIRA! PREM Seminar, Flagstaff, AZ, November 2025.
9. Wintergreen Meeting of Experimental Physical Chemists, Nellysford, VA, September 2025.
10. University of Colorado, Boulder, Physical Chemistry Seminar, Boulder, CO, September 2025.
11. ACS National Meeting, Washington DC, August 2025.
12. International Conference on Surface Nonlinear Spectroscopy, Okazaki, Japan, July 2025.
13. Nanomaterials: Computation, Theory, Machine Learning, & Experiment Workshop, Telluride, CO, June 2025.
14. Materials Research Society Meeting, Seattle, WA, April 2025.
15. ACS National Meeting, San Diego, CA, March 2025.
16. India Institute of Technology Roorkee, Chemistry Department Seminar, Roorkee, India, February 2025
17. Spectroscopy and Dynamics of Molecules and Clusters (SDMC), Mussoorie, India, February 2025.
18. University of Notre Dame, Chemistry & Biochemistry Seminar, Notre Dame, IN, January 2025.
19. Joint Quantum Science & Technology Workshop, Texas A&M, College Station, TX, January 2025.
20. Chiba University, Omnibus Seminar, Chiba, Japan, November 2024.
21. RIKEN, Molecular Spectroscopy Seminar, Wako, Japan, November 2024.
22. University of Tokyo, Chemistry Department Seminar, Bunkyo, Japan, November 2024.

23. Keio University, Chemistry Department Seminar, Minato, Japan, November 2024.
24. ACS Southwest Regional Meeting, Waco, TX, October 2024.
25. SPIE Optics and Photonics National Meeting, San Diego, CA, August 2024.
26. International Symposium on Singlet Fission and Photon Fusion, New York, NY, July 2024. (*2 Invited Presentations*)
27. International Conference on Coherent Multidimensional Spectroscopy, York, UK, June 2024.
28. Spatio-Temporal Dynamics of Excitons Workshop, Telluride, CO, June 2024.
29. Nonlinear Optics at Interfaces Workshop, Telluride, CO, June 2024.
30. 245th Meeting of the Electrochemical Society, San Francisco, CA, May 2024.
31. 31st Winter Meeting of the Inter-American Photochemical Soc., Miramar Beach, FL, January 2024.
32. The University of Texas at Dallas, Chemistry Department Seminar, Richardson, TX, November 2023.
33. ACS National Meeting, San Francisco, CA, August 2023.
34. Chautauqua Workshop on Nonlinear Optics, Keynote Speaker, West Lafayette, IN, June 2023.
35. Singlet Fission Workshop, Estes Park, CO, June 2023.
36. Nanomaterials: Computation, Theory, Machine Learning, & Experiment Workshop, Telluride, CO, June 2023.
37. Materials Research Society Meeting, San Francisco, CA, April 2023.
38. Tulane University, Chemistry Department Seminar, New Orleans, LA, April 2023.
39. Wayne State Univ., Physical/Analytical Chemistry Seminar, Detroit, MI, February 2023.
40. Bowling Green State Univ., Chemistry Department Seminar, Bowling Green, OH, November 2022.
41. Spatio-Temporal Dynamics of Excitons Workshop, Telluride, CO, September 2022.
42. ACS National Meeting, Chicago, IL, August 2022.
43. Nonlinear Optics at Interfaces Workshop, Telluride, CO, June 2022.
44. City University of New York, Chemistry Department Seminar, New York, NY, May 2022.
45. University of Utah, Chemistry Department Seminar, Salt Lake City, UT, April 2022.
46. Michigan State University, Chemistry Department Seminar, Lansing, MI, March 2022.
47. ACS National Meeting, San Diego, CA, March 2022.
48. University of Miami, Chemistry Department Seminar, Miami, FL, February 2022.
49. Texas State University, Chemistry Department Seminar, San Marcos, TX, January 2022.
50. University of Bristol, UK, School of Chemistry, Online Webinar, November 2021.
51. Wintergreen Meeting of Experimental Physical Chemists, Nellysford, VA, September 2021.
52. ACS National Meeting, Atlanta, GA, August 2021.
53. SPIE Optics and Photonics National Meeting, San Diego, CA, August 2021.
54. Spatio-Temporal Dynamics of Excitons Workshop, Telluride, CO, June 2021.
55. Universal Display Corporation, Virtual Format, May 2021.
56. ACS National Meeting, Virtual Format, April 2021.
57. University of Oklahoma, Inorganic/Physical Chemistry Seminar, Norman, OK, March 2021.
58. CUNY Graduate Center's Initiative for Theoretical Sciences, Virtual Workshop on Excitons, December 2020.
59. NanoGe Fall Meeting, Barcelona, Spain, October 2020. (*Moved to Online Format*)
60. California State University, Chico, Physical Chemistry Seminar, Chico, CA, September 2020
61. ACS National Meeting, San Francisco, CA, August 2020. (*Moved to Online Format*)
62. IEEE Research and Application of Photonics in Defense (RAPID), Miramar Beach, FL, August 2020
63. International Conference on Coherent Multidimensional Spectroscopy, University of Chicago, Chicago, IL, July 2020 (*Meeting Cancelled*).
64. Nonlinear Optics at Interfaces Workshop, Telluride, CO, June 2020. (*Moved to Online Format*)
65. APS March National Meeting, Denver, CO, March 2020. (*Meeting Cancelled*)
66. Pacific Conference on Spectroscopy and Dynamics, San Diego, CA, January 2020.
67. Utah State University, Physical Chemistry Seminar, Logan, UT, January 2020.
68. Florida State University, Physical Chemistry Seminar, Tallahassee, FL, January 2020.
69. Nature Conference on Functional Dynamics – Visualizing Molecules in Action, Arizona State

- University, Tempe, AZ, November 2019.
70. University of Rochester, Physical Chemistry Seminar, Rochester, NY, September 2019.
 71. OSA/APS Frontiers in Optics/Laser Science Conference, Washington DC, September 2019.
 72. Baylor University, Physical Chemistry Seminar, Waco, TX, September 2019.
 73. ACS National Meeting, San Diego, CA, August 2019. (*2 Invited Presentations*)
 74. The Ohio State University, Physical Chemistry Seminar, Columbus, OH, August 2019.
 75. Nanomaterials: Computation, Theory, & Experiment Workshop, Telluride, CO, July 2019.
 76. International Workshop on Nonlinear Optics at Interfaces, Shanghai, China, June 2019.
 77. University of Washington, Materials Science & Engineering Seminar, Seattle, WA, May 2019.
 78. Materials Research Society Meeting, Phoenix, AZ, April 2019.
 79. University of Illinois at Urbana-Champaign, Physical Chemistry Seminar, Urbana, IL, April 2019.
 80. University of Minnesota, Physical Chemistry Seminar, Minneapolis, MN, March 2019.
 81. Univ. of North Carolina Chapel Hill, Physical Chemistry Seminar, Chapel Hill, NC, January 2019.
 82. University of California Los Angeles, Physical Chemistry Seminar, Los Angeles, CA, January 2019.
 83. University of Pennsylvania, Physical Chemistry Seminar, Philadelphia, PA, December 2018.
 84. University of Chicago, Physical Chemistry Seminar, Chicago, IL, December 2018.
 85. University of Houston, Chemistry Department Seminar, Houston, TX, December 2018.
 86. Rice University, Physical Chemistry Seminar, Houston, TX, December 2018.
 87. State University of New York Geneseo, Physical Chemistry Seminar, Geneseo, November 2018.
 88. Materials Research Society Meeting, Boston, MA. November 2018.
 89. Purdue University, Physical Chemistry Seminar, West Lafayette, IN, November 2018.
 90. University of California San Diego, Physical Chemistry Seminar, La Jolla, CA, October 2018.
 91. University of California Riverside, Physical Chemistry Seminar, Riverside, CA, October 2018.
 92. University of California Berkeley, Physical Chemistry Seminar, Berkeley, CA, October 2018.
 93. Texas A&M, Physical Chemistry Seminar, College Station, TX, September 2018.
 94. Montana State University, Chemistry Department Seminar, Bozeman, MT, September 2018.
 95. SPIE Optics and Photonics National Meeting, San Diego, CA, August 2018.
 96. ACS National Meeting, Boston, MA, August 2018.
 97. Electron Donor-Acceptor Interactions Gordon Research Conference, Newport, RI, August 2018.
 98. Advances of Multidimensional Vibrational Spectroscopy in Water, Biology and Materials Science Workshop, Telluride, CO, July 2018.
 99. Nonlinear Optics at Interfaces Workshop, Telluride, CO, June 2018.
 100. Canadian Society for Chemistry Annual Meeting, Edmonton, Canada, May 2018.
 101. University of Colorado, Boulder, Physical Chemistry Seminar, Boulder, CO, April 2018.
 102. ACS National Meeting, New Orleans, LA, March 2018.
 103. University of Southern California, Physical Chemistry Seminar, Los Angeles, CA, February 2018.
 104. Atomic, Molecular, and Optical Physics Seminar, UT Austin, Austin, TX, November 2017.
 105. SPIE Optics and Photonics National Meeting, San Diego, CA, August 2017.
 106. 9th International Conference on Advanced Vibrational Spectroscopy, Victoria, Canada, June 2017.
 107. Temple University, Physical Chemistry Seminar, Philadelphia, PA, April 2017.
 108. ACS National Meeting, San Francisco, CA, March 2017.
 109. Louisiana State University, Physical Chemistry Seminar, Baton Rouge, LA, November 2016.
 110. ACS National Meeting, Philadelphia, PA, August 2016.
 111. Nonlinear Optics at Interfaces Workshop, Telluride, CO, June 2016.
 112. 2016 Southwest Ultrafast Conference, UT Austin, Austin, TX, June 2016.
 113. Atomic, Molecular, and Optical Physics Seminar, UT Austin, Austin, TX, April 2016.
 114. Center for Excitonics, Massachusetts Institute of Technology, Cambridge, MA, April 2016.
 115. 1st Sino-German Symposium on Structures and Dynamics at Surfaces, Peking University, Beijing, China, November 2015.
 116. EMN (Energy Materials Nanotechnology) Meeting, Cancun, Mexico, June 2015.
 117. Nonlinear Optics at Interfaces Workshop, Telluride, CO, June 2014.

118. Atomic, Molecular, and Optical Physics Seminar, UT Austin, Austin, TX, March 2014.

From Postdoctoral Work:

119. International Conference on Optical Probes of Conjugated Polymers & Organic Nanostructures, Durham University, Durham, UK, July 2013.

120. Materials Research Society Meeting, Boston, MA. December 2011.

From Graduate Work:

121. Physical Chemistry Seminar, Kobe University. Japan. September 2008.

Contributed Oral Presentations

1. ACS National Meeting, San Diego, CA, March 2022.
2. International Conference on Photochemistry, Boulder, CO, July 2019.
3. Colloidal Semiconductor Nanocrystals Gordon Research Conference, Poster Selected for Elevation to Short Presentation, Smithfield, RI, July 2018.
4. International Conference on Optical Probes of Conjugated Polymers & Organic Nanostructures, Quebec City, Canada, June 2017.
5. Singlet Fission Workshop, Estes Park, CO, June 2017.
6. International Conference on Coherent Multidimensional Spectroscopy, University of Groningen, Groningen, Netherlands, June 2016.
7. Singlet Fission Workshop, Estes Park, CO, June 2016.
8. ACS National Meeting, San Diego, CA. March 2016.
9. ACS National Meeting, Boston, MA. August 2015.
10. Singlet Fission Workshop, Estes Park, CO, June 2015.
11. Materials Research Society Meeting, San Francisco, CA. April 2015.
12. American Physical Society Meeting, San Antonio, TX. March 2015.

From Postdoctoral Work:

13. Singlet Fission Workshop, Estes Park, CO, June 2013.
14. Singlet Fission Workshop, Estes Park, CO, June 2012.
15. Western Spectroscopy Association Conference, Asilomar, CA. January 2012.
16. ACS National Meeting, Denver, CO. August 2011.
17. Materials Research Society Meeting, San Francisco, CA. April 2011.
18. International Conference on Electroluminescence and Organic Optoelectronics, Univ. of Michigan, Ann Arbor, MI, October 2010.

From Graduate Work:

19. International Conference on Time-Resolved Vibrational Spectroscopy, Meredith, NH. May 2009.
20. Coherent Multidimensional Spectroscopy Conference, Kyoto, Japan. August 2008.
21. ACS National Meeting, Philadelphia, PA. August 2008.

Workshops Attended as an Invited Panelist or Discussion Leader

1. NSF/UKRI Bilateral Workshop on Quantum Information Science in Chemistry, Alexandria, VA, February 2024.
2. WelchX Retreat: Chemistry for Sustainability, Discussion Panelist, Houston, TX, July 2023.

Media Interviews & Newscasts

The Materials Universe Podcast: Interview Guest on Season 1, Episode 3. January 2024. [Episode Link](#).

KUT News Now: Quantum Dot Research featured on afternoon broadcast, June 16, 2023, [Episode Link](#).

KUT ATXplained News Broadcast: "Black houses are so hot right now. But are they hotter?" December 15, 2022. [Episode Link](#).

Professional Affiliations & Service

Journal Reviewer: Journal of Physical Chemistry (A/B/C/Letters), Journal of the American Chemical Society, Journal of Chemical Physics, ACS Energy Letters, ACS Nano, Nano Letters, Journal of Chemical Education, Accounts of Chemical Research, Chemistry of Materials, JACS Au, Angewandte Chemie, Optics Letters, Optics Express, Nature Chemistry, Nature Materials, Nature Communications, Science Advances, Proceedings of the National Academy of Sciences, Chemical Science, Physical Chemistry Chemical Physics, Nanoscale, Advanced Functional Materials, Journal of Materials Chemistry (A/C), Chem, Journal of the Optical Society of America B, MRS Advances, Chemical Physics Letters, ChemPhotoChem, Trends in Chemistry, Bulletin of the Chemical Society of Japan

Grant Reviewer: DOE, NSF CHE, NSF DMR, NSF GRFP, AFOSR, ARO, DOD NDSEG, ACS PRF, NSERC, Canada Foundation for Innovation, DFG, Dutch Research Council, Research Corporation for Science Advancement, UT Austin Undergraduate Research Fellowship (URF) Program

Member: Phi Beta Kappa (inducted 2003), ACS (since 2003), Materials Research Society (since 2018), Sigma Xi (inducted 2020)

College/University Committees: Texas Materials Institute Executive Committee (2016 – present), University Laser Safety Committee (2018 – present), COVID-19 Task Force on Traditional Graduate Programs (2020), 21st Century Curriculum Implementation Task Force (2016 – 2017), Welch Hall Renovation Research Advisory Committee (2015 – 2016), Ad Hoc Committee for Academic and Research Opportunities in Materials Science and Engineering (2017 – 2018), College of Natural Sciences Graduate Education Advisory Committee (2018 – 2019), Center for Nano & Molecular Science Advisory Committee (2016)

Departmental Committees: Undergraduate Awards Committee (2026 – present), Physical Chemistry Hiring Committee (Chair: 2025 – present), Ad Hoc Seminar Committee (2024 – present), Building Space Allocation Committee (Member: 2021 – 2024; Chair: 2025 – present), Awards Committee (2024 – 2025), Chemistry Department Core Facilities Committee (2020 – 2024), Analytical/Physical Chemistry Seminar Organizer (2019 – 2023), Chemistry Course & Curriculum Committee (2018 – 2022), Senior/mid-Career Faculty Hiring Committee (2018 – 2019, 2019 – 2020, 2021 – 2022), Junior Faculty Hiring Committee (2014 – 2015, 2015 – 2016, 2020 – 2021), Graduate Admissions (co-chair, 2014 – 2018), Graduate Program Committee (2016), Faculty Advisory Committee (2016), Chemical Safety Committee (2014 – 2020)