

Kara L. Bren

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EDUCATION:

Carleton College, Northfield, Minnesota (1987 – 1991) B.A., Chemistry (1991)

Research: NMR investigation of dynamics of carbohydrates
Research Advisor: Prof. Lynn Buffington

California Institute of Technology, Pasadena, California (1991 – 1995) Ph.D., Chemistry (1996)

Thesis: Structurally Engineered Cytochromes c with Novel Ligand-Binding Properties
Research Advisor: Harry B. Gray

University of Florence, Florence, Italy (4/94 – 8/94; 4/95 – 5/95), visiting student

Research: NMR solution structures of paramagnetic heme proteins
Research Advisor: Ivano Bertini

PROFESSIONAL EXPERIENCE:

Chair, Department of Chemistry , University of Rochester	2022 – present
Richard S. Eisenberg Professor in Chemistry , University of Rochester	2021 – present
Professor of Chemistry , University of Rochester	2008 – present
Associate Professor of Chemistry , University of Rochester	2003 – 2008
Assistant Professor of Chemistry , University of Rochester	1997 – 2003
Member of UR Biophysics Structural and Computational Biology Program	1998 – present
NIH Postdoctoral Fellow , University of California at Davis, Gerd La Mar lab	1996 – 1997

AWARDS AND HONORS:

Elected to the American Academy of Arts and Sciences	2023
American Institute of Chemists Chemical Pioneer Award	2023
Ewha Global Fellow, Ewha Womans University, Seoul	2023 – 2026
Fellow, American Institute of Chemists	2023
Silliman Lecturer, Yale University	2022
Inaugural holder of the Richard S. Eisenberg Professorship in Chemistry	2021
Featured in Women at the Forefront of Energy Research, <i>ACS Energy Letters</i>	2020
Distinguished Women in Chemistry Lecturer, Princeton University	2019
Distinguished Lecturer, City University of Hong Kong	2019
Elected Fellow, American Association for the Advancement of Science	2018
KAIST Chemistry Distinguished Lectureship Award	2018
Humphrey Lecturer, University of Vermont	2017
Kavli Fellow, National Academy of Sciences	2017
Edward Peck Curtis Award for Excellence in Undergraduate Teaching	2017
Visiting Lecturer, Chemistry Promotion Center, Taiwan	2016
Visiting Scholar, Kaohsiung Medical University, Taiwan	2016
Guest Professor of Biochemistry, Lund University, Sweden	2014
Salzberg Lecturer, City College of New York	2014
American Chemical Society PROGRESS/Dreyfus Lectureship Award	2006
Alfred P. Sloan Research Fellow	2003 – 2005
Paul Saltman Memorial Lecturer	2004
National Research Service Award (NIH Post-doctoral Fellow)	1996 – 1997
Eastman/Kodak Graduate Fellow	1992 – 1995
Special Institute Fellow, Caltech	1991 – 1992
Nominated to Phi Beta Kappa	1991

Nominated to Sigma Xi	1991
Franz Exner Award for Excellence in Chemistry	1991
Technology Policy Studies Fellow (Carleton College; sponsored by Sloan Foundation)	1990

LEADERSHIP IN SCIENTIFIC FIELD:

Associate Editor, <i>Chemical Reviews</i>	2026 – present
Guest Editor, <i>Journal of Inorganic Biochemistry</i> Special Issue in honor of Harry Gray	2026
Member at Large, ACS Division of Inorganic Chemistry Executive Comm.	2026 – 2028
International Advisory Committee, Int'l Symposium on Applied Bioinorganic Chem.	2025 – present
Secretary, Society of Biological Inorganic Chemistry	2023 – 2027
International Advisory Board, School of Science, Woxsen University, Hyderabad, India	2023 – present
Associate Editor, <i>Journal of the American Chemical Society</i>	2014 – 2024
ACS National Award Selection Committee (Chair)	2022 – 2024
Host of GRC Connects: Visions of Inorganic Chemistry	2022
Chair, Metals in Biology Gordon Research Conference	2021-2023
Deputy Director, Training Program in the Chemistry Biology Interface, U of R	2022 – present
Advisory Board, Center for Catalysis in Biomimetic Confinement, DOE EFRC	2022 – present
International Advisory Board Member, <i>Bulletin of the Korean Chemical Society</i>	2020 – present
External Advisory Board Member, University of Kansas NIH CBI T32	2020 – present
External Advisory Board Member, Cornell University NIH CBI T32	2020 – present
Panel Leader, Solar Fuels Roundtable, Office of Science, Department of Energy	2019 – 2020
Program Director, UR Chemistry-Biology Interface Training Program (NIH T32)	2017 – 2022
Member, Editorial Advisory Board, <i>Comments on Inorganic Chemistry</i>	2014 – present
Member, Editorial Advisory Board, <i>Accounts of Chemical Research</i>	2011 – 2020
Guest Editor, <i>Proceedings of the National Academy of Sciences</i>	2016, 2017
Member, DOE Panel on Nitrogen Activation	2016
Council Member, Society for Biological Inorganic Chemistry	2014 – 2018
ACS National Award Selection Committee	2013 – 2015
Alternate Councilor, Division of Inorganic Chemistry, American Chemical Society	2013 – 2015
Member, Editorial Advisory Board, <i>Journal of Inorganic Biochemistry</i>	2012 – 2016
Chair, ACS Division of Inorganic Chemistry, Bioinorganic Subdivision	2010
Director, University of Rochester Biological Chemistry Cluster	2010 – present
Chair-elect, ACS Division of Inorganic Chemistry, Bioinorganic Subdivision	2009
Member, Editorial Advisory Board, <i>Inorganic Chemistry</i>	2009 – 2012
Thesis Opponent, University of Bergen, Norway	2008
Member, Editorial Advisory Board, <i>Journal of Biological Inorganic Chemistry</i>	2007 – 2011
Guest Editor, <i>Inorganic Chemistry</i> Forum on Metalloprotein Folding	2004
Invited Expert Analyst, <i>ChemTracts Inorganic Chemistry</i>	2000 – 2009

REVIEWING ACTIVITIES and RECOGNITIONS (SELECTED):

Outstanding Reviewer, <i>Chemical Science</i>	2024
Jury Member, Merck KGaA Future Insight Prize	2019 – present
Member, Advisory Board, Merck KGaA	2017 – 2018
Examination Board, PhD Thesis, University of Naples (Italy)	2017
Reviewer, DOE EFRC Programs	2016, 2018
Panel Reviewer, NSF-CHE (five times)	2008 – 2019
Member, NIH Fellowship Panel	2015, 2019
Member, External Committee, Johns Hopkins Chemistry Department Evaluation	2015
Member, NSF CAREER Panel, NSF-CHE	2015
Member, NIH Macromolecular Structure and Function A Study Section (MSFA)	2005 – 2008
Member, DOE Review Panel on Basic Research for Hydrogen Fuel Initiative	2005
Ad hoc Member, NIH Physical Biochemistry Special Emphasis Panel	2004
Ad hoc Member, NIH Metallobiochemistry Study Section (twice)	2003
Ad hoc Member, NIH Biochemistry Study Section	2003
Ad hoc Member, NIH Biochemistry Special Emphasis Panel	2003

LEADERSHIP ACTIVITIES IN SCIENTIFIC MEETINGS (SELECTED Recent):

Discussion Leader, Metallocofactors Gordon Research Conference	2026
Discussion Leader, Bioinorganic Chemistry Gordon Research Seminar	2026
Chair, Metals in Biology Gordon Research Conference	2021 – 2023
Panelist, U.S. – German Workshop on Artificial Photosynthesis	2021
Plenary Lecturer, eBIC	2021
Vice Chair, Metals in Biology Gordon Research Conference	2020
Discussion Leader, Inorganic Reaction Mechanisms Gordon Research Conference	2019
Organizer, Power Hour, Metals in Biology Gordon Research Conference	2018
Organizer, Symposium on Solar Fuels, ACS National Meeting, Boston	2018
Discussion Leader, Bioinorganic Chemistry Graduate Research Seminar	2018
Organizer, Power Hour on Women in Science, Metals in Biology Gordon Conference	2018
Discussion Leader, Metals in Biology Gordon Research Conference	2015, 2017
Session Organizer and Chair, Tetrapyrroles Gordon Research Conference	2016

PROFESSIONAL AFFILIATIONS:

American Academy of Arts and Sciences, Elected Member
 American Association for the Advancement of Science, Fellow
 American Chemical Society (Inorganic, Biological, and Physical subdivisions), Member
 National Academy of Sciences, Kavli Fellow
 New York Academy of Science
 Phi Beta Kappa
 Royal Society of Chemistry
 Sigma Xi
 Iota Sigma Pi
 Society of Biological Inorganic Chemistry

PROFESSIONAL DEVELOPMENT ACTIVITIES:

Career and Occupational Mentoring for the Professional Advancement of Science Students (COMPASS) workshop	2021
Center for Improvement of Mentored Experiences in Research (CIMER) workshop	2021
Cottrell Scholars Collaborative Academic Leadership Training workshop.	2020

CURRENT FUNDING:

"Living Bio-Nano Systems for Solar Hydrogen Production," Department of Energy, DE-SC0023354, 9/1/22 – 8/31/26. Role: PI. \$1,986,800

"NIH Training Grant in the Chemistry-Biology Interface," National Institutes of Health, 7/1/22 – 6/30/27, \$1,040,745. Role: PI (multi-PI grant) T32-GM118283

"SISGR: Modular Nanoscale and Biomimetic Assemblies for Photocatalytic Hydrogen Generation," Department of Energy, DE-SC0002106; DE-FG02-09ER16121, 7/15/24 – 7/14/27, \$1,330,000, Role: PI. Co-PIs: Todd Krauss and Ellen Matson.

PENDING FUNDING:

"Extracellular Electron Transfer Mechanisms in Microbe-Nanocrystal Hybrids," Department of Energy, 07/2026-06/2029, \$689,559

"NIH Training Grant in the Chemistry-Biology Interface," National Institutes of Health, 7/1/27 – 6/30/32, \$1,775,340. Role: PI (multi-PI grant)

PUBLICATIONS:

Google Scholar Link: <https://scholar.google.com/citations?user=eqCI1VQAAAAJ&hl=en>

INVITED LECTURES:

- 1998:** Department of Biochemistry and Biophysics, University of Rochester
 Department of Chemistry, Hamilton College
 Biomolecular Structure Cluster, School of Medicine, University of Rochester
 Department of Chemistry, SUNY Geneseo
- 1999:** Department of Chemistry, Union College
 Department of Chemistry, Villanova University
 Department of Chemistry, Miami University
 Biomolecular Structure Cluster, School of Medicine, University of Rochester
 Department of Chemistry, University of Delaware
 Department of Chemistry, John Carroll University
 Department of Chemistry, SUNY at Albany
- 2000:** Department of Chemistry, Rochester Institute of Technology
 Biomolecular Structure Cluster, University of Rochester
 Department of Biology, University of Rochester
 Department of Chemistry, Colgate University
 Department of Chemistry, SUNY Brockport
 Department of Chemistry, Amherst College
- 2001:** Department of Chemistry, University of Cincinnati
 Third Annual Upstate New York NMR Symposium, University of Rochester
 Department of Chemistry, St. John Fisher College
 Department of Chemistry, The Pennsylvania State University
- 2002:** Department of Chemistry, Boston College
 Department of Chemistry, Northeastern University
 Gordon Research Conference on Protein Folding Dynamics, Ventura, CA
 Department of Chemistry, California Institute of Technology
 Department of Chemistry, Grinnell College
 Department of Chemistry, University of Iowa
 Protein Structure Group, University of Minnesota
 Department of Chemistry, University of Wisconsin, Madison
 Department of Chemistry, University of Illinois, Urbana-Champaign
 Department of Chemistry, The Johns Hopkins University
 Department of Pharmaceutical Sciences, University of Maryland School of Pharmacy
 Department of Chemistry, Stanford University
 Department of Chemistry, University of California at Santa Cruz
 Department of Chemistry, University of California at Davis
 Department of Chemistry, Princeton University
 Department of Chemistry, Macalester College
 Department of Chemistry, Hamline University
 Department of Chemistry, University at Buffalo
 Department of Chemistry, University of Rochester
 Department of Biochemistry and Department of Physics, Canisius College
 Department of Chemistry, Rutgers University
- 2003:** Biophysics and Structural Biology Cluster, University of Rochester
 Department of Chemistry, Brown University
 Department of Chemistry, Tulane University
 American Chemical Society National Meeting, New Orleans, LA
 Frontiers in Biochemical NMR Symposium, Auburn University
 Department of Chemistry, Binghamton University
 Southeast Regional Meeting of the American Chemical Society, Atlanta, GA
 Department of Chemistry, Brandeis University
- 2004:** Metals in Biology Gordon Research Conference (Paul Saltman Memorial Lecture), Ventura, CA

- Department of Chemistry, Bowdoin College
- Department of Chemistry, Brown University
- Department of Chemistry, Jackson State University
- Department of Biophysics, Columbia University
- Department of Chemistry, SUNY Geneseo
- Upstate NY NMR Symposium, Albany, NY
- Department of Chemistry, Ithaca College
- Northeast Regional Meeting of the ACS
- Department of Physics, Rochester Institute of Technology
- 2005:** Department of Chemistry, University of Southern California
- NSF/IGERT NMR Workshop and Conference, Montana State University
- Department of Chemistry, SUNY Brockport
- Department of Chemistry, Stonehill College
- 2006:** Department of Chemistry, Middlebury College
- Gordon Research Seminar on Bioinorganic Chemistry, Ventura, CA
- Department of Chemistry, Utah State University
- Department of Chemistry, University of Utah
- Department of Chemistry, University of New Mexico
- Department of Chemistry, Boston University
- Department of Chemistry, Hope College
- Department of Chemistry, Calvin College
- Harrison-Howe Symposium, Rochester, NY
- Department of Chemistry, St. Olaf College
- Department of Chemistry, Carleton College
- Upstate NY NMR Symposium, Troy, NY
- Hauptmann-Woodward Medical Research Institute Lecture Series on Structural Biology in the 21st Century, Buffalo, NY
- 2007:** ACS PROGRESS/Dreyfus Lecture, Department of Chemistry, Purdue University
- Department of Pharmacology and Physiology, University of Rochester
- Department of Chemistry, St. Louis University
- Department of Chemistry, St. Francis College, PA
- Department of Chemistry, University of Michigan, Ann Arbor
- 2008:** Department of Chemistry, Indiana University
- Department of Biological Sciences, University of Oslo, Norway
- Department of Chemistry, University of Bergen, Norway
- Department of Chemistry, Canisius College
- 2009:** Department of Chemistry, Moravian College, Bethlehem, PA, 4/09.
- Department of Chemistry, Dartmouth University, May 14, 2009
- Department of Chemistry, Gustavus Adolphus College
- 2010:** Department of Chemistry, Florida International University
- Department of Physics, Rochester Institute of Technology
- Keynote address, American Chemical Society Rochester Section Meeting, Geneva, NY
- Conference on Affinity Tag Purification – Improving Speed, Quality and Cost, Boston, MA
- American Chemical Society National Meeting, Boston, MA
- Department of Chemistry, Berry College
- Department of Chemistry, Hobart and William Smith College
- Department of Chemistry, SUNY Potsdam
- Department of Chemistry, St. Lawrence University
- Pacificchem, Honolulu, HI
- 2011:** Pep Talk Conference, San Diego, CA
- Symposium on Magnetic Resonance, ACS National Meeting, Anaheim, CA
- Symposium on Heme Modification, Uptake, and Transport, ACS National Meeting, Anaheim, CA
- Department of Chemistry, Vanderbilt University
- Department of Chemistry, University at Buffalo
- Department of Chemistry SUNY Stony Brook

- Boston conference on Bioprocessing, Boston, MA
 ACS National Meeting, Denver, CO
 Biophysics Program, Cornell University
 Department of Chemistry, Bloomsburg University
- 2012:** Department of Chemistry, University of New Hampshire
 Department of Chemistry, University of Oklahoma
 Department of Chemistry, Drexel University
 Conference on Materials for Energy, University of Rochester
 DOE Solar Photochemistry Meeting, Annapolis, MD
 ICPP-7, Jeju, Korea
 Buffalo Biodynamics Symposium, Buffalo, NY
 Centre Européen de Calcul Atomique et Moléculaire (CECAM) Workshop on Spin States, Zaragoza, Spain
 Department of Chemistry, University of Toronto
 Department of Chemistry, Ithaca College
 Department of Chemistry, Clarkson University
- 2013:** RENS Scholars Series, University of Rochester
 KSU Student Affiliates of the American Chemical Society (SAAACS)/Akron Section of the American Chemical Society Colloquium, Kent State University
 Department of Chemistry, Colby College
 Korean Chemical Society Meeting, Seoul, Korea
 Graduate Women in Science, Rochester, NY
 CANBIC, Parry Sound, Canada
 Department of Chemistry, Brown University, Providence, RI
 Upstate NY NMR Symposium, RPI, Troy, NY
- 2014:** Lund University, Sweden
 Workshop on Bacterial Electrochemistry, Lund, Sweden
 University of Girona, Spain
 Department of Biological Sciences, University of Oslo, Norway
 Palacky University, Olomouc, Czech Republic
 International Conference on Porphyrins and Phthalocyanines, Istanbul, Turkey
 Global Artificial Photosynthesis – UK Royal Society, Chicheley, UK
 Department of Energy Solar Photochemistry Meeting
 Department of Biology, University of Rochester
 Wells College
 Georgia State University
 State University of New York at Potsdam
 City College of New York (Salzberg Lecture)
 University of Florida
- 2015:** Gordon Research Conference, Ventura, CA (session moderator, session introduction)
 Texas Woman's University (colloquium)
 Massachusetts Institute of Technology/Harvard University Joint Inorganic Seminar
 American Chemical Society National Meeting, Denver, Colorado (2 talks)
 Canadian Biological Inorganic Chemistry Conference, Parry Sound, Ontario
 Northeast Regional Meeting of the American Chemical Society, Ithaca, NY (keynote speaker)
 Telluride Science Research Center Meeting on Hydrogenase Mimics, Telluride, CO
 International Conference on Biological Inorganic Chemistry, Beijing, China
 IUPAC Congress, Busan, Korea (keynote speaker)
 ChemComm Symposium, UNIST, Ulsan, Korea
 ChemComm Symposium, Seoul, Korea
 Texas Woman's University (Distinguished Lecturer)
 Millersville University
 Pacifichem
- 2016:** Sustainability Seminar Series, University of Rochester

COST Action Meeting on Spin States in Inorganic Chemistry, Prague, Czech Republic
The Girona Seminar on Transition Metal Reactivity by Design, Girona, Spain (plenary lecturer)
Penn State Bioinorganic Workshop
DOE Solar Photochemistry Meeting, Gathersburg, MD
Chemistry and Biology of Tetrapyrroles Gordon Research Conference
EUROBIC, Budapest, Hungary
Metals in Biochemistry Symposium, NERM, Binghamton University
University of Arizona
Biocatalysis Symposium, SERMACS, Columbia, SC
International Symposium on Catalysis and Fine Chemicals (C&FC 2016), Taipei, Taiwan, 10-14
November 2016 (Keynote lecturer)
Taiwan Biological Inorganic Chemistry Symposium 2016 (TBICS 2016), Kaohsiung, Taiwan, 15
November 2016
National Tsing Hua University, Hsinchu City, Taiwan, 16 November 2016.
University of Illinois, Urbana-Champaign

- 2017:** SABIC, Kolkata, India (Keynote lecturer)
Metals in Biology Gordon Research Conference (Session Moderator)
Sustainability in Electrocatalytic Fuel and Chemical Production Symposium, American Chemical
Society National Meeting, San Francisco, CA
Spectroscopic Elucidation of Metalloenzyme Mechanism, American Chemical Society National
Meeting, San Francisco, CA
Division of Inorganic Chemistry Symposium, American Chemical Society National Meeting, San
Francisco, CA
Georgian Bay Conference on Bioinorganic Chemistry, Parry Sound, Ontario, Canada
DOE Annual Merit Review Meeting, Washington, DC
Kavli Frontiers of Science Korean-American Symposium, Irvine, CA
Binghamton University, Binghamton, NY
University of Wisconsin, Madison, WI
Humphrey Symposium Speaker, University of Vermont
Merck KGaA, Darmstadt, Germany
Biophysics Retreat, University of Rochester
Barnard College, New York, NY
University of California, Irvine
DGIST Global Innovation Festival (DGIF), Daegu, Korea
DIGST-EWHA Bioinorganic Symposium, Seoul, Korea
- 2018:** Emory University
Metals in Biology Gordon Research Conference, Ventura, CA
Gordon Research Seminar on Bioinorganic Chemistry
Symposium on Nitrogen Unfixation, ACS National Meeting, New Orleans, LA
Dalton Meeting, Coventry, UK
Penn State Bioinorganic Workshop
Ewha Woman's University, Seoul, Korea
Women in Science Symposium, KAIST, Daejeon, Korea
KAIST Lectureship, Daejeon, Korea
The 4th International Inorganic Chemistry Symposium, KAIST, Daejeon, Korea
International Conference on Porphyrins and Phthalocyanines, Munich, Germany
American Chemical Society National Meeting, Boston, MA
Redox Films for Energy Conversion Workshop, Marseille, France
University at Buffalo
Clemson University
University of Texas at San Antonio
Nazareth College, Rochester, NY
- 2019:** North Carolina State University
Gordon Research Conference on Inorganic Reaction Mechanisms (Discussion leader)

City College of New York Advanced Science Research Center
 Texas A&M University
 Georgian Bay Conference on Bioinorganic Chemistry, Parry Sound, Ontario, Canada
 City University of Hong Kong
 DOE Solar Photochemistry P.I. Meeting, Gaithersburg, MD
 19th International Conference on Biological Inorganic Chemistry (ICBIC 19), Interlaken, Switzerland (Keynote)
 Latin American Symposium on Coordination and Organometallic Chemistry, Cartagena, Colombia (Plenary)
 2019 ECNIS: Frontiers in Molecular and Nanoscale Chemistry, Ewha Womens University, Seoul, South Korea
 Ithaca College
 Princeton University (Distinguished Women in Chemistry Lecture)

- 2020:** University of Pennsylvania
 ACS National Meeting, Philadelphia, PA (cancelled)
 CBI Training Program Retreat, Cornell University, Ithaca, NY (cancelled)
 Phelps Colloquium, University of Rochester (cancelled)
 Guanxi Normal University, Guilin, China (cancelled)
 Metallocofactors Gordon Research Conference (cancelled)
 ACS National Meeting, San Francisco, CA (cancelled)
 International Bioinorganic Virtual Symposium, Korean Chemical Society (online)
 Indiana University NOx Interest Group (online)
- 2021:** Seoul National University (online)
 Rochester Institute of Technology (online)
 ACS DIC Periodic Table Talk – Coordination Chemistry Subdivision (online)
 Nazareth College (online)
 ACS National Meeting, Fresenius Award Symposium (online)
 Gordon Research Conference Connects, Innovation by Inorganic Chemistry (online)
 NIH CBI Symposium, Cornell University (online)
 UC Santa Barbara (online)
 International Conference on Porphyrins and Phthalocyanines (online)
 Eastern US ACS YCC Partnership (online)
 eBIC (online International Bioinorganic Chemistry meeting)
 ACS National Meeting, Atlanta, GA
 University of Virginia (online)
 TIMB3 Training School, University of Florence (online)
 Universidad ICESI, Cali, Colombia (online)
 Oxford University (online)
- 2022:** ACS National Meeting, San Diego, CA
 University of Michigan
 Fusion Conference on Small Molecule Activation, Cancun, Mexico
 Solar Photochemistry PI Meeting (online)
 Nobel Symposium, “Visions of Bio-Inorganic Chemistry: Metals and the Molecules of Life,” Stockholm, Sweden
 Bulletin of the Korean Chemical Society Meeting, Seoul, Korea
 Bioinorganic Chemistry Symposium, KAIST, Daejeon, Korea
 International Conference on Porphyrins and Phthalocyanines (ICPP), Madrid, Spain
 Yale University
 California Institute of Technology
 Southeast Regional Meeting of the ACS, San Juan, Puerto Rico
 10th Asian Biological Inorganic Chemistry (AsBIC) meeting, Kobe, Japan
- 2023:** ACS National Meeting, Indianapolis, IN
 Latin American Meeting on Biological Inorganic Chemistry (LABIC), Viña del Mar, Chile
 American Institute of Chemists Chemical Pioneer Symposium, Philadelphia, PA (online)

Georgian Bay Conference on Bioinorganic Chemistry, Parry Sound, Ontario, Canada
 Telluride Science Research Center Workshop on Molecule Transformation through Proton-
 Coupled Electron Transfer for Energy Storage and Conversion

ACS National Meeting, San Francisco, CA

International Symposium on Molecular Sciences, Jeonju, Korea

Bulletin of the Korean Chemical Society Symposium, Korean Chemical Society Meeting,
 Gwangju, Korea

Southwest Regional Meeting of the ACS, Oklahoma City, OK

Birla Institute of Technology and Science, Goa, India

2024: St. Xavier's College, Kolkata, India

Symposium for Advanced Bioinorganic Chemistry, Kolkata, India

Renewable Energy: Solar Fuels Gordon Research Conference, Ventura, CA

ACS National Meeting, New Orleans, LA

Hamilton College, Clinton, NY

NSLS II Workshop, Brookhaven National Lab

DOE Solar Photochemistry PI Meeting

Metallocofactors Gordon Research Conference, Stonehill College, MA

Susquehanna Regional ACS Meeting, PA

University of Illinois Champaign – Urbana, Urbana, IL

Taiwan Biological Inorganic Chemistry Symposium, Kaohsiung, Taiwan

National Tsing Hua University, Taipei, Taiwan

National Taiwan Normal University, Taipei, Taiwan

Ewha Womans University, Seoul, Korea

POSTECH, Pohang, Korea

UNIST, Ulsan, Korea

2025: Metals in Biology Gordon Research Conference, Ventura, CA

CANBIC, Parry Sound, Ontario

DOE Solar Photochemistry PI Meeting, Bethesda, MD

International Symposium on Applied Bioinorganic Chemistry, Uppsala, Sweden

International Conference on Biological Inorganic Chemistry, Long Beach, CA

ACS National Meeting, Inorganic Chemistry Lectureship Symposium, Washington, DC

International Solar Fuels Conference, Newcastle, UK

Telluride Workshop on Proton-Coupled Electron Transfer, Telluride, CO

Pacificchem, Honolulu, HI (Session talk and Plenary talk)

2026: Bioinorganic Gordon Research Seminar (Session Leader)

American Chemical Society National Meeting, Sessler Award Symposium, Atlanta, GA

Metallocofactors Gordon Research Conference (Session Leader)

International Conference on Porphyrins and Phthalocyanines, Kyoto, Japan

Chemistry and Biology of Tetrapyrroles Gordon Research Conference

University of California, Riverside, Riverside, CA

Virginia Tech, Blacksburg, VA

AsBIC, Jaipur, India

2027: CANBIC-10, Parry Sound, Ontario, Canada

2029: ICBIC, Jeju Island, Korea

PLENARY, KEYNOTE, AWARD, AND NAMED LECTURES:

2007: ACS PROGRESS/Dreyfus Lecture, Department of Chemistry, Purdue University

2010: Keynote, American Chemical Society Rochester Section Meeting, Geneva, NY

2014: Salzberg Lecture, City College of New York, New York, NY

2015: Keynote, Northeast Regional Meeting of the American Chemical Society, Ithaca, NY

Keynote, IUPAC Congress, Busan, Korea

Keynote, Texas Woman's University

- 2016:** Plenary, The Girona Seminar on Transition Metal Reactivity by Design, Girona, Spain
Keynote, Catalysis & Fine Chemicals, Taipei, Taiwan
- 2017:** Keynote, Symposium for Advanced Biological Inorganic Chemistry, Kolkata, India
Humphrey Lecturer, University of Vermont
Keynote, DGIST Global Innovation Festival, Korea
- 2018:** Plenary, Dalton 2018, Coventry, UK
KAIST Lectureship Award, Daejeon, Korea
- 2019:** Distinguished Lecturer, City University of Hong Kong
Keynote, ICBIC 19
Plenary, Latin American Symposium on Coordination and Organometallic Chemistry, Cartagena, Columbia
Distinguished Women in Chemistry Lecturer, Princeton University
- 2021:** Plenary, eBIC
- 2022:** Keynote, ASBIC-10
- 2023:** Keynote, LABIC-8
- 2024:** Keynote, SABIC
- 2025:** Plenary, International Solar Fuels Conference

CONTRIBUTED LECTURES:

- 1998:** NSF Inorganometallic Workshop, Knoxville, TN
- 2000:** American Chemical Society National Meeting, San Francisco, CA
- 2002:** American Chemical Society National Meeting, Orlando, FL
- 2004:** American Chemical Society National Meeting, Anaheim, CA
- 2005:** 12th International Conference on Biological Inorganic Chemistry, Ann Arbor, MI
- 2007:** 13th International Conference on Biological Inorganic Chemistry, Vienna, Austria
- 2009:** International Conference on Biological Inorganic Chemistry, Nagoya, Japan
- 2010:** American Chemical Society National Meeting, San Francisco, CA
American Chemical Society National Meeting, Boston, MA
- 2013:** National Meeting of the American Chemical Society, New Orleans, LA

COURSES TAUGHT:

Advanced Inorganic Chemistry I (graduate level) (CHM 411)
Advanced Inorganic Chemistry II (graduate level; physical inorganic chemistry) (CHM 412)
Biochemistry (Lecturer on NMR of biomolecules) (IND 408)
Biochemistry (Undergraduate and graduate level) (CHM 250/450)
Bioinorganic Chemistry (graduate level) (CHM 414)
Chemical Concepts, Systems, and Practices II (CHM 132)
Chemistry-Biology Interface (CHM 406)
Group Theory (CHM 415)
Inorganic Chemistry (undergraduate level) (CHM 211)
Methods in Structural Biology (Lecturer on NMR of proteins) (CHM 402/BPH 411)
Nuclear Magnetic Resonance Spectroscopy (CHM 422)
Physical Methods in Inorganic Chemistry (CHM 424)
Principles of Chemistry (lab) (CHM 105L)

CURRENT RESEARCH GROUP MEMBERS:

Postdoctoral Associates

1. Afsar Ali (3/24 –) Postdoctoral Researcher. *Project:* Bioinspired Catalysts for Small Molecule Activation

2. Wesley Chiang (9/25 –) Postdoctoral Researcher, joint with Todd Krauss. *Project*: Imaging Bio-Nano Systems

Graduate Students

1. Kaye Kuphal (11/20 – 8/26) PhD student, inorganic chemistry. *Project*: Iron catalysts for nitrite and nitrate reduction. Defense scheduled for August 11, 2026
2. María Fernanda Lizarazo (11/21 – 8/26) PhD student, inorganic chemistry. *Project*: Photocatalytic hydrogen production. Defense scheduled for August 19, 2026. Next position: electrochemical deposition of boron-doped diamond electrodes" in DFI - Dechema Forschungsinstitut in Frankfurt.
3. Karishma B. Ramesh (11/23 –) PhD student, inorganic chemistry. *Projects*: Electrochemical nitrogen oxanion reduction; Photochemical CO₂ reduction
4. Alana Huynh (11/23 –) PhD student, biological chemistry (joint with Ben Partridge Group). *Projects*: Assembly of *Geobacter* cytochrome wires; engineered enzymes for fuel production
5. Shamitri Bandyopadhyay (12/24 –) PhD student, inorganic chemistry. *Project*: Bio-nano systems and bioinspired catalysts for fuel production
6. Rohith Rajendran (12/25 –) PhD student, chemistry. *Project*: Bioinspired electrocatalytic nitrite and nitrate reduction.
7. Liz Kane (12/25 –) PhD student, bio-nano hybrids (joint with Todd Krauss group). *Project*: Photoinduced charge transfer in bio-nano hybrid systems.

RESEARCHERS TRAINED:

Postdoctoral Researchers:

1. Matthew Liptak (9/08 – 7/11), NIH Postdoc, *Project*: Effects of heme conformation on electronic structure. *Current Position*: Associate Professor, Department of Chemistry, University of Vermont
2. Andrea Lee (10/08 – 7/11), *Project*: Single-molecule folding studies of cytochrome *c* (Advised jointly by Todd Krauss). *Current Position*: Research Assistant Professor, School of Medicine, University of Vermont
3. Anni Siitonen (2/11 – 2/12), *Project*: Photophysics and charge transfer in carbon nanotube-porphyrin conjugates. *Next Position*: Senior Scientist, Polestar Technologies; *Current Position*: Patent Agent, Perkins Cole.
4. Sanela Lampa-Pastrik (11/13 – 6/14) *Project*: Biological electron donors for solar hydrogen generation, *Current Position*: Assistant Professor, Nazareth College
5. Peter Lamberg (3/15 – 8/16) *Project*: Biological electron donors for solar hydrogen generation. *Next Position*: Postdoc, Rochester Institute of Technology. *Current Position*: Research Scientist, Milo Sensors.
6. Banu Kandemir (2/19 – 8/20) *Project*: Nitrite coordination chemistry, systems for photocatalytic hydrogen production. *Current Position*: Staff Scientist, QuidelOrtho, Rochester, NY

Graduate Students:

Ph.D.:

1. Elizabeth Forenza Karan (1/98 – 2/02), Graduate student, inorganic chemistry (Ph.D. '02). *Thesis*: Expression and Spectroscopic Characterization of *Hydrogenobacter thermophilus* Cytochrome C₅₅₂. *Next and Current Position*: High School Teacher, Ridgewood, NJ
2. Brandy S. Russell (1/99 – 12/02), Graduate student, inorganic chemistry (Ph.D. '03). *Thesis*: NMR Investigations of Ferricytochrome *c* Folding and Dynamics. *Next Position*: Postdoctoral Fellow, University of Illinois Urbana Champaign. *Current Position*: Associate Professor and Co-Chair, Department of Chemistry, Gustavus Adolphus College, St. Peter, MN
3. Kirti M. Patel (1/99 – 7/03), Graduate student, inorganic chemistry (Ph.D. '03). *Thesis*: Expression and Characterization of Thermophilic and Mesophilic Cytochromes *c*. *Next and Current Position*: High school teacher, CT
4. Linghao Zhong (1/99 – 8/03), Graduate student, biophysical chemistry (Ph.D. '03). *Thesis*: Investigation of Dynamics and Electronic Structures of Bacterial Cytochromes *c*. *Next Position*:

- Postdoctoral Fellow, Cornell University. *Current Position*: Professor of Chemistry, Penn State Mont Alto
5. Xin Wen, Ph.D. (1/01 – 12/04), Graduate student, biophysical chemistry (Ph.D. '04). *Thesis*: Heme Axial Ligand Fluxion in Cytochromes *c*: Characterization, Causes, and Consequences. *Next Position*: Postdoctoral Fellow, Johns Hopkins University. *Current Position*: Professor of Chemistry, California State University Los Angeles
 6. Jason A. Kellogg (6/99 – 3/05), Graduate student, inorganic chemistry (Ph.D. '05). *Thesis*: Expression of Horse Cytochrome *c* Variants for Analysis of Non-native Conformations. *Next Position*: Scientist, Dade Behring. *Current Position*: Senior Manager R&D – Assay Development, Siemens Healthcare Diagnostics
 7. Lea Vacca Michel (6/03 – 1/07), Graduate student, biophysics and structural biology (Ph.D. '07). *Thesis*: Dynamics-function Relationships in Cytochromes *c*. *Next Position*: Postdoctoral Fellow, Department of Molecular Biology and Genetics, Cornell University. *Current Position*: Professor of Chemistry, Rochester Institute of Technology
 8. Ravinder Kaur (6/03 – 2/07), Graduate student, inorganic chemistry (Ph.D. '07). *Thesis*: Characterization and Conformational Changes of *Nitrosomonas europaea* Cytochrome *c*₅₅₂. *Next Position*: Postdoctoral Fellow, Department of Microbiology and Immunology, University of Rochester. *Current Position*: Research Scientist II, Center for Infectious Disease and Immunology, Research Institute, Rochester General Hospital, and Adjunct Faculty, Rochester Institute of Technology, Rochester, NY
 9. Amy A. (Ensign) Kovach (1/05 – 11/09), Graduate student, biophysical chemistry (Ph.D. '09; Joint student with Todd Krauss). *Thesis*: Studies of Horse Heart Cytochrome *c* Folding. *Next Position*: Assistant Professor of Chemistry, Roberts Wesleyan College, Rochester, NY. *Current Position*: Associate Provost, St. John Fisher University, Rochester, NY
 10. Sarah E. J. Bowman (1/06 – 8/10), Graduate student, inorganic chemistry (PhD '10). *Thesis*: Development of Spectroscopic Probes of Second-Sphere Interactions in Cytochromes *c*. *Next Position*: Postdoctoral Research Fellow, MIT. *Current Position*: Associate Professor, Department of Biochemistry, University at Buffalo
 11. Mehmet Can (6/07 – 2/12), Graduate student, inorganic chemistry (PhD, '12). *Thesis*: Factors Affecting the Heme Electronic Structure of Proteins with Heme *c*. *Next Position*: Postdoctoral Fellow, University of Michigan. *Next Position*: Senior Research Scientist, Elixir Pharmaceuticals R&D, Ankara, Turkey. *Current Position*: Assistant Professor, Ankara Medipol University, School of Pharmacy.
 12. Wesley B. Asher (7/07 – 8/07; 12/07 – 4/12), Graduate student, biophysical chemistry (PhD '12). *Thesis*: Engineering Native and Artificial Heme *c* Containing Proteins for Biochemical Applications and Studies of Protein Folding. *Next Position*: Postdoctoral Fellow, Columbia University. *Current Position*: Assistant Professor, Division of Molecular Therapeutics, Columbia University
 13. Jesse G. Kleingardner (12/07 – 8/13), Graduate student, biological chemistry. *Thesis*: Biological Role and Applications of Covalent Heme Attachment to Polypeptides. *Next Position*: Postdoc, Ithaca College. *Current Position*: Associate Professor, Messiah College, PA
 14. Lenore Kubie (12/09 – 10/14), Graduate student, physical chemistry. *Thesis*: Metallopeptides and Metallocytochromes *c* with Single-Walled Carbon Nanotube Conjugates for Alternative Energy Applications. *Next Position*: Postdoctoral researcher, University of Wyoming, *Current Position*: Principal Solutions Engineer, Albert Invent.
 15. Banu Kandemir (12/11 – 9/16) PhD student, inorganic chemistry. *Thesis*: Electrocatalytic Hydrogen Evolution from Water by Biosynthetic Cobalt Catalysts. *Next Positions*: Postdoctoral Researcher, University of North Carolina at Chapel Hill; Assistant Professor, Middle East Technical University, Cyprus. *Current Position*: Staff Scientist, QuidelOrtho, Rochester, NY
 16. Yixing Guo (7/14 – 4/18) PhD student, inorganic chemistry, *Thesis*: Cobalt Metallopeptide for Multi-Proton, Multi-Electron Reactions. *Next Position*: Senior Engineer, Process Engineering, Globalfoundries, Inc. *Current Position*: Engineer, Intel Corporation.
 17. Saikat Chakraborty (12/13 – 12/19) PhD student, inorganic chemistry, *Project*: Photocatalytic hydrogen generation using biomolecular catalysts. *Next Positions*: Visiting Assistant Professor of Chemistry, Utica College, Utica, NY; Visiting Assistant Professor, Oxford College of Emory University, Oxford, GA. *Current Position*: Associate Professor, Paul Smiths College, Paul Smiths, NY.

18. Jennifer M. Le (12/15 – 7/20) PhD student, biological chemistry, *Thesis*: Catalytic Hydrogen Evolution by a Synthetic Cobalt Mini-Enzyme. *Next Position*: Practical Teacher of Bioanalysis, Department of Pharmacy in the Faculty of Science, University of Groningen, Netherlands. *Current Position*: Scientist in Analytical Discovery Sciences, Eikon Therapeutics, San Francisco
19. Jose L. Alvarez-Hernandez (12/16 – 9/21) PhD student, inorganic chemistry, *Thesis*: Bioinspired Cobalt Catalysts for Electrochemical Hydrogen Evolution and CO₂ Reduction in Water. *Next Position*: Postdoc, Hazari lab, Yale. *Current Position*: Senior Electrochemist, Oxylus Energy
20. Jesse R. Stroka (7/17 – 12/21) PhD student, inorganic chemistry, *Thesis*: Electrocatalytic Nitrate and Nitrite Reduction by Inorganic Complexes. *Next Position*: Research Scientist, Bausch & Lomb. *Current Position*: Scientist, Bausch and Lomb, Rochester, NY
21. Emily H. Edwards (12/17 – 5/22) PhD student, inorganic chemistry. *Thesis*: Developing Bioinspired Systems for Photocatalytic Hydrogen Evolution. *Next and Current Position*: Editor, *Cell Reports Physical Science* and *Joule*
22. Jiwon Han (8/18 – 5/23) PhD student, inorganic chemistry. *Thesis*: Hydrogen Evolution and CO₂ Reduction by Bioinspired Cobalt Catalysts in Water. *Next Position*: Scientist, Eurofins, St. Louis, MO; *Current Position*: Scientist, Bausch and Lomb, Rochester, NY
23. Alison Salamatian (11/19 – 6/23) PhD student, inorganic chemistry. *Thesis*: Catalytic Carbon Dioxide and Proton Reduction Reactions by Biomolecular Cobalt Porphyrin Catalysts in Water. *Next and Current Position*: Patent Agent, U.S. Trademark and Patent Office, Washington, DC
24. Soraya Ngarnim (8/22 – 1/26) PhD student, biological and inorganic chemistry. *Thesis*: Engineering a Bio-Nano Hybrid System for Photocatalytic Hydrogen Evolution. *Next Position*: Seeking employment.
25. Hafsa Irfan (11/21 – 1/26) PhD student, bioinorganic chemistry. *Thesis*: Comparative Studies of Biomolecular Catalysts for Catalytic Proton and CO₂ Reduction in Water. *Next and Current Position*: Lab Manager - Metabolomics, Overture Life, Dallas, TX
26. Ryan Kosko (11/20 – 3/26) PhD student, inorganic chemistry. *Thesis*: Development of Novel Photochemical Systems for Energy Conversion Reactions. *Next and Current Position*: Postdoctoral Researcher, Rapp lab, University of Oregon

M.S.:

1. Terry Rabinowitz (10/01 – 12/01; 5/02 – 4/05), Graduate student, biophysics and structural biology (M.S. '04) *Research*: NMR studies of cytochrome *c* folding
2. Dawn Humphrey (10/03 – 4/05), Graduate student, Chemistry (M.S. '05). *Thesis*: Mercury, Zinc, and Autistic Spectrum Disorders (Written thesis)
3. Timur Senguen (1/04 – 6/06), Graduate student, biophysical chemistry (M.S. '04) *Research*: NMR studies of cytochrome *c* dynamics
4. Courtney Fantauzzo (1/07 – 12/07), Graduate student, inorganic chemistry (M.S. '08) *Research*: Novel methods for engineering heme proteins.
5. Eric DeCoste (12/07 – 12/09), Graduate student, inorganic chemistry. *Research*: Engineering microperoxidases (M.S. '09)
6. Huixi Zhang (12/09 – 6/11), Graduate student, inorganic chemistry. *Research*: NMR of paramagnetic hemes. (M.S. '11)
7. Erin Knappen Kleingardner (6/08 – 12/11), Graduate student, biological chemistry. *Research*: Multiheme proteins and peptides as tools for solar energy conversion. Qualifying exam: 4/10
8. Shaun Shahan (12/10 – 1/12), Graduate student, physical chemistry. (Jointly advised by Todd Krauss). *Research*: Single molecule studies of protein dynamics
9. Benjamin Dick (6/12 – 5/15) M.S. student. *Research*: Hydrogen evolution catalyzed by cobalt microperoxidases
10. Brian Sheldon (12/13 – 6/15) *Research*: Metallopeptides for electrocatalytic hydrogen generation
11. Somjit Bhar (12/15 – 4/18) *Research*: Mechanism of hydrogen evolution by metallopeptide catalysts.
12. Rebecca Smith (6/11 – 8/11; 12/11 – 12/16) *Research*: Biological Functions and Medical Applications of Metalloporphyrins.
13. Frank Valoy (5/24 – 8/24). M.S. Student. *Project*: Biomimetic small-molecule activation catalysts. *Mentor*: Afsar Ali

B.S. (Senior Thesis Students):

1. Archana Manohar (9/97 – 6/98; B.S. '98), *Thesis*: The Unfolding of Horse Cytochrome *c*. *Mentor*: Elizabeth Karan. *Current Position*: Dentist, private practice.
2. Rory Melenkivitz Waterman (12/97 – 8/99; B.S. '99), *Thesis*: NMR Detection of a Cytochrome *c* Unfolding Intermediate. *Mentor*: Brandy Russell. *Current Position*: Professor, University of Vermont.
3. Cintyu Wong (1/02 – 5/03; B.S. '03), *Thesis*: Chemical and Thermal Denaturation and Cyanide Binding to the *Hydrogenobacter thermophilus* M61A Cytochrome *c*₅₅₂ Mutant. *Mentor*: Linghao Zhong
4. Andrew Lee (9/04 – 5/05; B.S. '05), *Thesis*: Investigation of a Thermophilic High-spin Cytochrome *c*. *Mentor*: Lea Michel.
5. Susan Zultanski (9/05 – 5/06; B.S. '06), *Thesis*: Bacterial Zinc-cytochromes *c*. *Mentor*: Amy Ensign. *Further Training*: PhD, MIT. *Current Position*: Scientist, Merck.
6. Ben Levin (9/04 – 12/04; 6/05 – 5/07; B.S. '07), *Project*: Hydrogen Exchange of *Hydrogenobacter thermophilus* Cytochrome *c*₅₅₂. *Mentor*: Lea Vacca *Further Training*: PhD, Boston University. *Current Position*:
7. Iris Jo (9/06 – 5/07; B.S. '07), *Thesis*: Folding of Fluorescent Cytochrome *c* Derivatives. *Mentor*: Amy Ensign. *Further Training*: D.O., NYCOM. *Current Position*: Assistant Professor of Pediatric Gastroenterology.
8. Breanne Holmes (9/07 – 5/08), U of R Undergraduate ('08) *Thesis*: Mutations in the Heme-Binding Motif of Cytochrome *c*. *Mentor*: Sarah Bowman. *Further Education*: PhD, UNC. *Current Position*: Scientific Manager, Bayer.
9. Ferdous Zannat (9/08 – 5/09), U of R Undergraduate ('09) *Thesis*: NMR Relaxation Studies of Paramagnetic Cytochromes *c*. *Mentor*: Sarah Bowman. *Further Training*: M.D., Albert Einstein. *Current*: Physician, NYCHHC Wudhull Hospital.
10. Benjamin Snyder (6/10 – 8/10; 1/11 – 12/11), U of R Undergraduate ('12) *Thesis*: Directed Mutations to the Heme Pocket in Cytochromes *c* and Their Influence on Heme *c* Electronic Structure and Electron Self-Exchange Kinetics. *Mentors*: Sarah Bowman, Mehmet Can. *Further Training*: PhD. Stanford University. *Current Position*: Assistant Professor, University of Illinois Urbana Champaign.
11. Benjamin Dick (6/12 – 5/13; B.S. '13) *Thesis*: Tuning the Redox Potential of the Biosynthetic Catalyst Microperoxidase-11. *Mentor*: Jesse Kleingardner. *Further Training*: Ph.D., UCSD. *Current Position*: Scientist 1 at Cambrex.
12. Hoon Kim (9/12 – 5/13; B.S. '13), *Thesis*: Analysis of Axial Ligation in Mixed-spin Cytochromes. *Mentor*: Banu Kandemir
13. Sarah Koniski (1/13 – 5/14), U of R Undergraduate ('14) *Thesis*: Zinc Porphyrin Peptides as Electron Donors to Nanotubes. *Mentor*: Lenore Kubie
14. Kristen Bentley (9/13 – 5/14), U of R Undergraduate ('14) *Thesis*: Hydrogen Evolution from Water Using Biological Catalysts. *Mentor*: Banu Kandemir
15. Anthony Paschke (9/13 – 5/14), U of R Undergraduate ('14) *Thesis*: Characterization of Biomolecular Hydrogen Evolution Catalysts. *Mentor*: Rebecca Smith
16. Lauren Weber (6/13 – 7/13; 9/14 – 5/15). *Thesis*: Hydrogen Evolution from Water Using a Microperoxidase Catalyst. *Mentor*: Banu Kandemir.
17. Gibran Mangui (9/15 – 5/16) *Thesis*: Mn(III) Porphyrins as MRI Contrast Agents. *Mentor*: Rebecca Smith. *Next Position*: DMD Candidate.
18. Marisa Guerin (9/14 – 5/15; 9/15 – 5/16) *Thesis*: Biomolecular Hydrogen Evolution Catalysts. *Mentors*: Banu Kandemir and Yixing Guo
19. Claire Dickerson (6/15 – 5/18) *Thesis*: Characterization of CoGGH, CoKKH and their role in Catalysis. *Mentor*: Yixing Guo. *Current*: PhD candidate, UCLA
20. Alex Callahan (9/17 – 5/18) *Thesis*: Studies on the Effects of Protein Structure on Proton Reduction By Cobalt Cytochrome *c*. *Mentor*: Jen Le. *Current Position*: PhD candidate, MIT
21. Jana Jelušić (6/18 – 12/18; 1/20 – 5/20); Research Assistant (7/20 – 6/21) *Project*: Multicomponent Systems for Photochemical Hydrogen Evolution. *Mentors*: Saikat Chakraborty, Emily Edwards. *Current*: PhD student, Chemistry, Yale

22. Noelle Peluso (9/19 – 12/19; 9/20 – 5/21) *Thesis*: The pH and Buffer Dependence of Photocatalytic Hydrogen Production Using CoMC6*a *Mentor*: Emily Edwards. *Current*: CPSC in Maryland
23. Gloria Kim (9/21 – 5/22) *Thesis*: Buffer and pH Effects on Photochemical Hydrogen Evolution. *Mentor*: Ryan Kosko
24. Hafsah Mohamad (9/21 – 5/24) *Thesis*: Electrochemical and Photochemical Reduction of CO₂ to CO using a Synthetic Bio-catalyst. *Mentor*: Alison Salamatian

Visiting PhD Students:

1. Vincenzo Firpo (4/16 – 7/17), Project: Electrochemical and photochemical production of hydrogen using Mimochrome catalysts. *Mentor*: Jennifer Le
2. Serena Damian (6/24 – 12/24; 3/25 – 6/25) PhD student, University of Naples. *Project*: Hydrogen production and CO₂ reduction with synthetic biocatalysts.