

# MARCO BONIZZONI

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## APPOINTMENTS

2017–	Associate Professor	Department of Chemistry and Biochemistry – The University of Alabama
2018–	Member	Alabama Water Institute – The University of Alabama
2010–2017	Assistant Professor	Department of Chemistry – The University of Alabama

## EDUCATION AND TRAINING

2007–2010	<b>Postdoctoral research</b> Department of Chemistry and Biochemistry – The University of Texas at Austin Pattern-based recognition approach to the discrimination of protein kinase enzymes	Advisor: Prof. Eric V. Anslyn
2003–2007	<b>Doctorate in Chemistry</b> Department of Chemistry – University of Pavia – Italy Dissertation title: <i>Anion recognition through metal-ligand and hydrogen-bonding interactions</i>	Advisor: Prof. Luigi Fabbrizzi
1997–2003	<b>Laurea in Chemistry</b> (BS+MS equivalent) Department of Chemistry – University of Pavia – Italy Thesis: <i>Complexation of open-chain and cyclic polyamines containing a piperazine fragment</i>	Advisor: Prof. Luigi Fabbrizzi

## HONORS AND RECOGNITION

- **Distinguished Teaching Fellow** 2017 – 2021  
College of Arts and Sciences – The University of Alabama
- Selected as one of the **2016 *Journal of Materials Chemistry B* Emerging Investigators**  
The Editorial Board of the *Journal of Materials Chemistry B* selected researchers “carrying out work with the potential to influence future directions in materials chemistry”, “rising stars of materials chemistry research”.
- Invited to the **2016 Young Academic Investigators symposium** of the Division of Organic Chemistry of ACS  
The *Young Academic Investigators* symposium, organized by the Organic Division of the ACS, highlights selected scientists in the early stages of their career making significant contributions to the field.
- Invited to present at the **2015 Physical Organic Chemistry Gordon Research Conference**  
An invitation to give an oral presentation at such a prestigious venue indicates high recognition in the field, provided international exposure, and represents a rare honor for a junior faculty member.

## CONSULTING EXPERIENCE

2020–2021	Cengage Learning, Inc – refreshed and authored new problems for five chapters of existing organic chemistry textbook
2020	Pearson Publishing, Inc – accuracy check of solutions manual sections for newly published organic chem textbook
2019–2020	Pearson Publishing, Inc – organic chemistry Faculty Advisory Board (evaluate and advise on books in current development)
2014–2016	Cengage Learning, Inc – OWL External Advisory Board (advise on the development of the OWL v2 online platform)

## CERTIFICATIONS AND PROFESSIONAL MEMBERSHIPS

- Board of Certified Chemists – Ministry of Education, University and Research, Italy (since 2003)
- Member, American Chemical Society (since 2007); Organic, Analytical, and Polymer divisions

## ACADEMIC AND PROFESSIONAL SERVICE

- 2022 **Chair-Elect** – Alabama Section of the American Chemical Society
- 2021–2024 **American Chemical Society National Awards** – selection committee member (2022-2024 award cycle)
- 2019– **Frontiers of Chemistry**, Associate Editor, Supramolecular chemistry section
- 2017– **Director of Graduate Recruiting and Admissions**  
Dept. of Chemistry and Biochemistry, The University of Alabama
- **Peer review of scientific manuscripts for publication:**  
*Journal of the American Chemical Society, Angewandte Chemie, Chemical Communications, Chemistry – A European Journal, Chemical Science, The Journal of Organic Chemistry, Analytical Chemistry, New Journal of Chemistry, ACS Sensors, Journal of Materials Chemistry, Soft Matter, RSC Advances, Dalton, Analyst, Analytical Methods, Supramolecular Chemistry, Tetrahedron, and others.*
  - **Review of grant proposals:**  
US National Science Foundation (Chemistry division; Graduate Research Fellowship Program); American Chemical Society (Petroleum Research Fund); Israel Science Foundation; Kuwait Foundation for the Advancement of Science.
  - **Institutional and external committees:**
- 2018– University Information Technology committee – Univ. of Alabama
- 2010– Graduate recruiting and admissions committee – Department of Chemistry – Univ. of Alabama
- 2018–2020 Graduate Council – Univ. of Alabama (elected member)
- 2014–2017 Faculty technology advisory board – College of Arts and Sciences – Univ. of Alabama
- 2017 Committee for the evaluation of Student Uses of Campus Technology – Univ. of Alabama
- 2016 Committee for the evaluation of Learning Management System needs – Univ. of Alabama
- 2013–2015 Technology and Learning Committee – Faculty representative for College of A&S – Univ. of Alabama

## DIVERSITY AND OUTREACH

- To replace recruiting seminars disrupted by COVID-19, Dr. Bonizzoni established a successful outreach seminar program to create or strengthen links between UA Chemistry and primarily undergraduate or minority-serving institutions in the Southern US. For instance, in the 2020-21 AY alone the chemistry faculty of The University of Alabama delivered a record 20+ virtual research seminars and visits at institutions outside of the Department's typical recruiting reach, forging new relationships and attracting more domestic students to our graduate programs.
- Dr. Bonizzoni helped establish and currently leads the ACS Bridge Partner Site at the University of Alabama to increase the number of graduate degrees awarded to underrepresented Black, Latinx, and Indigenous students in the chemical sciences. Partnering with the ACS and the Inclusive Graduate Education Network (IGEN), he established a transitional program providing additional mentoring for students to successfully complete a PhD program. Dr. Bonizzoni has also created and strengthened institutional links between minority-serving institutions and UA to recruit underrepresented students to UA's graduate programs in Chemistry.
- Dr. Bonizzoni hosts a professional development workshop for high school teachers titled *Playing with our food*, which uses cooking techniques as a springboard to explain chemical processes related to non-covalent intermolecular interactions. The workshop was first funded through by UA's Office of Academic Affairs, and subsequently by the NSF-funded Noyce Scholars program supporting students interested in secondary teacher certification.

## TEACHING EXPERIENCE

- Graduate: Physical-organic Chemistry; Supramolecular Chemistry
- Undergraduate: Organic Chemistry I and II; Organic Chemistry Laboratory I and II

## JOURNAL ARTICLES

- Michael H. Ihde, Gabrielle Covey, Ashley D. G. Johnson, Karl J. Wallace, and Marco Bonizzoni. A single-site receptor for heavy metal ion pairs: taking advantage of counterion effects. *Chemical Communications*, **2022**, being drafted.  
Michael H. Ihde, Joshua Tropp, Alan Shiller, Jason Azoulay, Marco Bonizzoni. A Sensor Array for the Ultra-Sensitive Discrimination of Heavy Metal Pollutants in Seawater. *Advanced Functional Materials*, **2022**, under review.

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- Yuehan Lu, Shang Peng, Shuo Chen, Yingxun Du, Marco Bonizzoni, Amelia Ward. Discharge and temperature controls of dissolved organic matter (DOM) in a forested coastal plain stream. *Water*, **2021**, 13 (20), 2919. DOI: [10.3390/w13202919](https://doi.org/10.3390/w13202919).
- Yifei Xu, Marco Bonizzoni. Beta-lactam antibiotics discrimination using a macromolecular sensor in water at neutral pH. *Sensors*, **2021**, 21(19), 6384 (invited contribution). DOI: [10.3390/s21196384](https://doi.org/10.3390/s21196384).
- Aaron B. Davis, Michael H. Ihde, Alie M. Busenlehner, Dana L. Davis, Rashid Mia, Jessica Panella, Frank R. Fronczek, Marco Bonizzoni, Karl J. Wallace. Structural features of a family of coumarin-enamine fluorescent chemodosimeters for ion-pairs. *Inorganic Chemistry*, **2021**, 60(18), 14238–14252. DOI: [10.1021/acs.inorgchem.1c01734](https://doi.org/10.1021/acs.inorgchem.1c01734).
- O. Oladipupo, S. Brown, R. Lamb, J. Gray, C. Cameron, N. Ward, J. F. Hall, Y. Xu, C. Petersen, F. Qu, A. Shrestha, A. DeRegnaucourt, M. Thompson, M. Bonizzoni, C. E. Webster, S. McFarland, Y. Kim, E. T. Papish,. Light-responsive and protic ruthenium compounds bearing bathophenanthroline and dihydroxybipyridine ligands achieve nanomolar toxicity towards breast cancer cells. *Photochemistry and Photobiology*, **2021**, DOI: [10.1111/php.13508](https://doi.org/10.1111/php.13508).
- Yifei Xu, Marco Bonizzoni. Discrimination and quantitation of biologically relevant carboxylate anions using a [dye•PAMAM] complex. *Sensors*, **2021**, 21(11), 3637 (invited contribution). DOI: [10.3390/s21113637](https://doi.org/10.3390/s21113637)
- Michael H. Ihde, Ashley Jolly Steelman, Marco Bonizzoni. Fluorescent probes for the supramolecular interactions responsible for binding of polycyclic aromatic hydrocarbons to hyperbranched polyelectrolytes in aqueous media. *Israel Journal of Chemistry*, **2021**, 61(3-4), 261-272 (invited contribution). DOI: [10.1002/ijch.202000097](https://doi.org/10.1002/ijch.202000097)
- Fengrui Qu, Robert W. Lamb, Colin G. Cameron, Seungjo Park, Olaitan Oladipupo, Jessica L. Gray, Yifei Xu, Houston D. Cole, Marco Bonizzoni, Yonghyun Kim, Sherri A. McFarland, Charles Edwin Webster, and Elizabeth T. Papish. Singlet oxygen formation vs photodissociation for light-responsive protic ruthenium anticancer compounds: The oxygenated substituent determines which pathway dominates. *Inorganic Chemistry* **2021**, 60(4), 2138–2148. DOI: [10.1021/acs.inorgchem.0c02027](https://doi.org/10.1021/acs.inorgchem.0c02027)
- Michael H. Ihde, Cara F. Pridmore, Marco Bonizzoni. Pattern-based recognition systems: Overcoming the problem of mixtures. *Analytical Chemistry* **2020**, 92(24), 16213-16220. DOI: [10.1021/acs.analchem.0c04062](https://doi.org/10.1021/acs.analchem.0c04062)
- Yifei Xu, Marco Bonizzoni. Disposable paper strips for carboxylate discrimination. *Analyst* **2020**, 145, 3505-3516 (part of the themed collection *The mechanics of supramolecular chemistry* in honor of Eric Anslyn's 60th birthday, and featured on the cover). DOI: [10.1039/D0AN00137F](https://doi.org/10.1039/D0AN00137F)
- Joshua Tropp, Michael H. Ihde, Erin Crater, Noel C. Bell, Rimsha Bhatta, Ian Johnson, Marco Bonizzoni, Jason Azoulay. A sensor array for the nanomolar detection of azo dyes in water. *ACS Sensors*, **2020**, 5(6), 1541-1547. DOI: [10.1021/acssensors.0c00342](https://doi.org/10.1021/acssensors.0c00342)
- Joshua Tropp, Michael H. Ihde, Abigail K. Williams, Nicholas J. White, Naresh Eedugurala, Noel C. Bell, Jason D. Azoulay, Marco Bonizzoni. A sensor array for the discrimination of polycyclic aromatic hydrocarbons using conjugated polymers and the inner filter effect. *Chemical Science*, **2019**, 10, 10247-10255. DOI: [10.1039/C9SC03405F](https://doi.org/10.1039/C9SC03405F)
- Xiaoli Liang, Miranda Trentle, Veronika Kozlovskaya, Eugenia Kharlampieva, Marco Bonizzoni. Carbohydrate sensing using water soluble poly(methacrylic acid)-co-3-(acrylamide)phenylboronic acid co-polymer. *ACS Applied Polymer Materials*, **2019**, 1 (6), 1341-1349. DOI: [10.1021/acsapm.9b00141](https://doi.org/10.1021/acsapm.9b00141)
- Michele Invernici, Carlo Ciarrocchi, Daniele Dondi, Luigi Fabbrizzi, Simone Lazzaroni, Maurizio Licchelli, Massimo Boiocchi, and Marco Bonizzoni. Bimacrocyclic effect in anion recognition by a copper(II) bicyclam complex. *ACS Omega*, **2018**, 3, 15692–15701. DOI: [10.1021/acsomega.8b01710](https://doi.org/10.1021/acsomega.8b01710)

- Massimo Boiocchi, Marco Bonizzoni, Carlo Ciarrocchi, Luigi Fabbrizzi, Michele Invernici Maurizio Licchelli. Anion recognition in water, including sulfate, by a bicyclam bimetallic receptor: a process governed by the enthalpy/entropy compensatory relationship. *Chemistry – a European Journal* **2018**, *24*, 5659-5666. DOI: [10.1002/chem.201800067](https://doi.org/10.1002/chem.201800067)
  - Xiaoli Liang, Marco Bonizzoni. Boronic acid-modified poly(amidoamine) dendrimers as sugar-sensing materials in water. *Journal of Materials Chemistry B*, **2016**, *4*, 3094 - 3103. (Emerging Investigators 2016 issue, invited). DOI: [10.1039/C5TB02530C](https://doi.org/10.1039/C5TB02530C)
  - Alie M. Mallet, A. B. Davis, D. R. Davis, J. Panella, K. J. Wallace, Marco Bonizzoni. Binding of coumarin-enamine probes to divalent metal ions. *Chemical Communications*, **2015**, *51*, 16948-16951. DOI: [10.1039/C5CC05489C](https://doi.org/10.1039/C5CC05489C)
  - Marco Bonizzoni. Effective data analysis and graphing software for time-resolved fluorescence, *American Laboratory*, **2015**, *47*, 25-26.
  - Ashley M. Jolly, Marco Bonizzoni. PAMAM dendrimers as supramolecular hosts through noncovalent interactions. *Supramolecular Chemistry*, **2015**, *27* (3), 151-160. DOI: [10.1080/10610278.2014.915971](https://doi.org/10.1080/10610278.2014.915971)
  - Yuanli Liu, Marco Bonizzoni. A supramolecular sensing array for qualitative and quantitative analysis of organophosphates in water. *Journal of the American Chemical Society* **2014**, *136*(40), 14223–14229, DOI: [10.1021/ja507905r](https://doi.org/10.1021/ja507905r)
  - Ashley M. Jolly, Marco Bonizzoni. Intermolecular forces driving encapsulation of small molecules by PAMAM dendrimers in water. *Macromolecules*, **2014**, *47*(18), 6281-6288. DOI: [10.1021/ma5014868](https://doi.org/10.1021/ma5014868)
  - Alie M. Mallet, Yuanli Liu, Marco Bonizzoni. An off-the-shelf sensing system for physiologically relevant phosphates. *Chemical Communications*, **2014**, *50*, 5003-5006. DOI: [10.1039/C4CC01392A](https://doi.org/10.1039/C4CC01392A)
  - Yaolin Xu, Jennifer Sherwood, Ying Qin, Dorothy Crowley, Marco Bonizzoni, Yuping Bao. The role of protein characteristics in the formation and fluorescence of Au nanoclusters. *Nanoscale*, **2014**, *6*, 1515-1524. DOI: [10.1039/C3NR06040C](https://doi.org/10.1039/C3NR06040C)
  - Young Mo Sung, Monica Vasiliu, David A Dixon, Marco Bonizzoni, Dongho Kim and Thomas Vaid. Electronic structure and photophysics of (C=C)tetra-p-tolylporphyrin<sup>2+</sup>. *Photochemical & Photobiological Sciences*, **2013**, *12*, 1774-1779. DOI: [10.1039/C3PP50155H](https://doi.org/10.1039/C3PP50155H)
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- S. Reid Long, Marco Bonizzoni, Brenton M. Ray, Eric V. Anslyn. Differentiation of functional groups and biologically relevant anions using AT-PAMAM dendrimers. *Supramolecular Chemistry*, **2013**, *25*(9-11), 641-649. DOI: [10.1080/10610278.2013.831861](https://doi.org/10.1080/10610278.2013.831861)
  - Marco Bonizzoni, S. Reid Long, Chance Rainwater, Eric V. Anslyn. PAMAM dendrimer induced aggregation of 5(6)-carboxyfluorescein. *Journal of Organic Chemistry*, **2012**, *77* (3), 1258-1266. DOI: [10.1021/jo201360u](https://doi.org/10.1021/jo201360u)
  - Marco Bonizzoni, Eric V. Anslyn. Combinatorial methods for chemical and biological sensors. (R.A. Potyrailo and V.M. Mirsky, eds.). Book review. *Journal of the American Chemical Society*, **2009**, *131* (40), 14597–14598. DOI: [10.1021/ja907230d](https://doi.org/10.1021/ja907230d)
  - Tianzhi Zhang, Nicola Y. Edwards, Marco Bonizzoni, Eric V. Anslyn. The use of differential receptors to pattern peptide phosphorylation. *Journal of the American Chemical Society*, **2009**, *131* (33), 11976–11984. DOI: [10.1021/ja9041675](https://doi.org/10.1021/ja9041675)
  - Massimo Boiocchi, Marco Bonizzoni, Alberto Moletti, Dario Pasini, Angelo Taglietti. Linear recognition of dicarboxylates by ditopic macrocyclic complexes. *New Journal of Chemistry* **2007**, *31* (3), 352-356. DOI: [10.1039/B616492G](https://doi.org/10.1039/B616492G)
  - Michela Allevi, Marco Bonizzoni, Luigi Fabbrizzi. Homo- and hetero-dinuclear anion complexes. *Chemistry - A European Journal*, **2007**, *13* (13), 3787-3795. DOI: [10.1002/chem.200601682](https://doi.org/10.1002/chem.200601682)
  - Marco Bonizzoni, Luigi Fabbrizzi, Angelo Taglietti, Federico Tiengo. Benzyldieneamine-thioureas: chromogenic interactions with anions and N-H deprotonation. *European Journal of Organic Chemistry*, **2006**, *16*, 3567-3574. DOI: [10.1002/ejoc.200600388](https://doi.org/10.1002/ejoc.200600388)
  - Valeria Amendola, Marco Bonizzoni, David Esteban-Gomez, Luigi Fabbrizzi, Maurizio Licchelli, Felix Sancenon, Angelo Taglietti. Some guidelines for the design of anion receptors. *Coordination Chemistry Reviews*, **2006**, *250* (11-12), 1451-1470. DOI: [10.1016/j.ccr.2006.01.006](https://doi.org/10.1016/j.ccr.2006.01.006)
  - Marco Bonizzoni, Luigi Fabbrizzi, Giulio Piovani, Angelo Taglietti. Fluorescent detection of glutamate with a dicopper(II) polyamine cage. *Tetrahedron*, **2004**, *60* (49), 11159-11162. DOI: [10.1016/j.tet.2004.08.102](https://doi.org/10.1016/j.tet.2004.08.102)
  - Massimo Boiocchi, Marco Bonizzoni, Luigi Fabbrizzi, Giulio Piovani, Angelo Taglietti. A dimetallic cage with a long ellipsoidal cavity for the fluorescent detection of dicarboxylate anions in water. *Angewandte Chemie, Int. Ed.* **2004**, *43* (29), 3847-3852. DOI: [10.1002/anie.200460036](https://doi.org/10.1002/anie.200460036)
  - Massimo Boiocchi, Marco Bonizzoni, Luigi Fabbrizzi, Francesco Foti, Maurizio Licchelli, Antonio Poggi, Angelo Taglietti, Michele Zema. Does a reinforced kinetic macrocyclic effect exist? The demetallation in strong acid of copper(II) complexes with open and cyclic

tetramines containing a piperazine fragment. *Chemistry - a European Journal*, **2004**, *10* (13), 3209-3216. DOI: [10.1002/chem.200305717](https://doi.org/10.1002/chem.200305717)

Massimo Boiocchi, Marco Bonizzoni, Luigi Fabbrizzi, Francesco Foti, Maurizio Licchelli, Angelo Taglietti, Michele Zema. The influence of the boat-to-chair conversion on the demetallation of the nickel(II) complex of an open-chain tetramine containing a piperazine fragment. *Dalton Transactions*, **2004**, 4, 653-658. DOI: [10.1039/B312980B](https://doi.org/10.1039/B312980B)

## BOOKS & CHAPTERS

- Marco Bonizzoni. Fluorescence sensors using indicator displacement assays. In J.W. Atwood (ed.), *Comprehensive Supramolecular Chemistry – 2<sup>nd</sup> edition*, Elsevier, **2017**, pp. 21-36.
- Valeria Amendola, Marco Bonizzoni, Luigi Fabbrizzi. Ion translocation within multisite receptors. In Ben L. Feringa (ed.), *Molecular Switches – 2<sup>nd</sup> edition*, Wiley, **2011**.
- Angelo Taglietti, Marco Bonizzoni. Receptors for biological anions. In J.W. Atwood, J.L. Steed (eds.), *Encyclopaedia of Supramolecular Chemistry*, Marcel Dekker, **2005**.

## INVITED CONFERENCE PRESENTATIONS

- Marco Bonizzoni. Chemical sensing through fluorescence modulation in conjugated polymers. *Synthesis of fluorescent probes and their applications from sensing to imaging* symposium at SERMACS, Birmingham, AL, **2021**
- Marco Bonizzoni. Chemical sensing through fingerprinting in environmental media. *Sensors & Biosensors for Widespread Environmental Monitoring* symposium at the ACS Spring National Meeting, online, **2021**
- Marco Bonizzoni. Improving affinity and solubility of supramolecular receptors using polymeric scaffolds. Invited oral presentation at the *Supramolecular analytical chemistry* symposium, ACS Fall National Meeting, Boston, **2018**
- Marco Bonizzoni. Pattern recognition of metal cations: overcoming the problem of mixtures. Invited oral presentation at the *Catalysis and Sensing for our Environment (CASE XII) Conference*, Shanghai, **2017**
- Marco Bonizzoni. Modifying dendritic polymers for supramolecular analytical applications. Invited oral presentation at the *Southeastern regional meeting of the American Chemical Society (SERMACS)*, Columbia, SC, **2016**
- Marco Bonizzoni. Dendritic polyelectrolytes as supramolecular hosts in water. Invited oral presentation at the *Young Academic Investigator Symposium*, Division of Organic Chemistry of the ACS, Philadelphia, **2016**
- Marco Bonizzoni. Dendritic polyelectrolytes as supramolecular hosts in water: Binding interactions and their applications. *Physical Organic Chemistry Gordon Research Conference*, **2015**
- Marco Bonizzoni. Water-soluble polyelectrolytes as supramolecular hosts: from fundamental interactions to applications. *Addressing Biological Problems with Chemical Answers* symposium within the *Southeastern regional meeting of the American Chemical Society (SERMACS)*, Nashville, **2014**
- Marco Bonizzoni. Water-soluble polyelectrolytes as supramolecular hosts. *Supramolecular Chemistry* symposium within the *Southeastern regional meeting of the American Chemical Society (SERMACS)*, Atlanta, **2013**
- Marco Bonizzoni. Water-soluble polyelectrolytes: scaffolds for molecular assembly. *Catalysis and Sensing for our Environment (CASE VIII) Conference*, Austin, TX, **2013**

## INVITED DEPARTMENTAL SEMINARS

• East Tennessee State University	host: Aleksey Vasiliev	September 24 <sup>th</sup> , 2021
• Misericordia University	host: Nicola Edwards	March 10 <sup>th</sup> , 2021
• Trinity University	host: Rebecca Rapf	February 25 <sup>th</sup> , 2021
• Kennesaw State University	host: Carl Saint Louis	February 2 <sup>nd</sup> , 2021
• Florida State University	host: Lei Zhu	October 29 <sup>th</sup> , 2020
• Florida Tech University	host: Christopher Chouinard	October 18 <sup>th</sup> , 2020
• Eastern Kentucky University	host: Derek Bussan	October 18 <sup>th</sup> , 2019
• University of Montevallo	host: ACS Student Chapter	October 26 <sup>th</sup> , 2018
• Jackson State University	host: Ifedayo Victor Ogungbe	September 14 <sup>th</sup> , 2018
• University of St. Thomas	host: Eric Fort	November 18 <sup>th</sup> , 2016
• Sewanee - University of the South	host: Bethel Seballos	November 4 <sup>th</sup> , 2016
• Texas Tech University	host: David Birney	April 13 <sup>th</sup> , 2016
• Mississippi State University	host: Keith Hollis	April 24 <sup>th</sup> , 2015
• University of Kansas - Lawrence	host: Kristin Bowman James	April 10 <sup>th</sup> , 2015
• Kansas State University	host: Takashi Ito	April 9 <sup>th</sup> , 2015
• University of Massachusetts - Amherst	host: Vincent Rotello	February 10 <sup>th</sup> , 2015
• Armstrong State University	host: Gary Guillet	January 30 <sup>th</sup> , 2015
• Georgia Southern University	host: Hans Schanz	January 29 <sup>th</sup> , 2015
• University of West Florida	host: Michael T. Huggins	January 23 <sup>rd</sup> , 2015
• University of Oregon	host: Darren W. Johnson	January 16 <sup>th</sup> , 2015
• The University of Texas at Austin	host: Eric V. Anslyn	November 21 <sup>st</sup> , 2014
• University of Miami	host: Angel Kaifer	October 31 <sup>st</sup> , 2014
• Louisiana State University	host: David Spivak	October 24 <sup>th</sup> , 2014
• University of South Carolina	hosts: John Lavigne and Ken Shimizu	October 2 <sup>nd</sup> , 2014
• Auburn University	host: Anne Gorden	September 18 <sup>th</sup> , 2014
• Xavier University of Louisiana	host: Candace Lawrence	September 16 <sup>th</sup> , 2014
• Tulane University	host: Bruce Gibb	September 15 <sup>th</sup> , 2014
• Bowling Green State University	host: Pavel Anzenbacher Jr.	April 30 <sup>th</sup> , 2014
• Florida International University	host: Konstantinos Kavallieratos	April 18 <sup>th</sup> , 2014
• Florida Atlantic University	host: Stéphane Roche	April 17 <sup>th</sup> , 2014
• Jackson State University	host: Md. Alamgir Hossain	April 11 <sup>th</sup> , 2014
• University of Alabama - Birmingham	host: David Graves	February 2 <sup>nd</sup> , 2014
• Florida State University	host: Lei Zhu	January 30 <sup>th</sup> , 2014
• University of Southern Mississippi	host: Karl Wallace	November 22 <sup>nd</sup> , 2013

## OTHER SELECTED CONFERENCE PRESENTATIONS (PI AND GROUP MEMBERS)

- Michael Ihde, Joshua Tropp, Nicholas J. White, Jason Azoulay, Marco Bonizzoni. PAH sensing by fluorescence quenching of conjugated polymers. *Bays and Bayous Symposium* - Mississippi-Alabama Sea Grant Consortium (online). December 1<sup>st</sup>, **2020**
- Michael Ihde, Marco Bonizzoni. Fingerprinting metal cation mixtures using coordinative interactions. Selected for an oral presentation at the Gordon Research Seminar: *Physical-Organic Chemistry*. June 22<sup>nd</sup> – 28<sup>th</sup>, **2019**. The corresponding poster, presented at the Gordon Research Conference immediately following, was selected for a lightning talk.
- Gabrielle Covey, Michael Ihde, Karl Wallace, Marco Bonizzoni. Fluorescent turn-on sensors for transition metals. Poster presentation at the 2018 SERMACS meeting. Augusta, GA. October 31<sup>st</sup> – November 3<sup>rd</sup>, **2018**. (**undergraduate author**)
- Xiaoli Liang, Marco Bonizzoni. Globular dendritic sensors – Multivalency and cooperativity in water. Poster presentation at the International Symposium on Macrocyclic and Supramolecular Chemistry (ISMSC 2018). Québec City, Canada. July 8<sup>th</sup> – 13<sup>th</sup>, **2018**
- Xiaoli Liang; Miranda Trentle, Veronika Kozlovskaya, Eugenia Kharlampieva, Marco Bonizzoni. Carbohydrate sensing using water-soluble poly(methacrylic acid)-co-3-(acrylamide)phenylboronic acid co-polymer. Poster presentation at the Gordon Research Seminar and Conference: *Bioanalytical Sensors*. June 23<sup>rd</sup> – 29<sup>th</sup>, **2018**.
- Nicholas J. White, Joshua Tropp, Jason Azoulay, Marco Bonizzoni. Detection of polycyclic aromatic hydrocarbons by chemical fingerprinting. Oral presentation at the 2018 ACS Spring National Meeting. New Orleans, LA. March 18<sup>th</sup> – 22<sup>nd</sup> **2018**.
- Addison Iszler, Nicholas J. White, Marco Bonizzoni. Noncovalent interactions between PAMAM dendrimer analogues and carboxylates. Poster presentation at the 2018 ACS Spring National Meeting. New Orleans, LA. March 18<sup>th</sup> – 22<sup>nd</sup> **2018**. (**undergraduate author**)
- Flor Lozada Santiago, Yifei Xu, Marco Bonizzoni. Chemical features influencing the fingerprinting of polycarboxylates. Poster presentation at the 2018 ACS Spring National Meeting. New Orleans, LA. March 18<sup>th</sup> – 22<sup>nd</sup> **2018**. (**undergraduate author**)
- Michael Ihde, Joshua Tropp, Alie M. Mallet, Jason Azoulay, Karl Wallace, Marco Bonizzoni. Array sensing for trace detection of metal cations using optical spectroscopic techniques. Oral presentation at the 2018 ACS Spring National Meeting. New Orleans, LA. March 18<sup>th</sup> – 22<sup>nd</sup> **2018**.
- Yifei Xu, Marco Bonizzoni. Discrimination of carboxylate anions in neutral water using chemical fingerprinting methods. Poster presentation at the 2018 ACS Spring National Meeting. New Orleans, LA. March 18<sup>th</sup> – 22<sup>nd</sup> **2018**.
- Nicholas J. White, Kyle C. Glissom, Marco Bonizzoni. Thermodynamics of PAMAM-carboxylate interactions using isothermal titration calorimetry. Oral presentation at the 2018 ACS Spring National Meeting. New Orleans, LA. March 18<sup>th</sup> – 22<sup>nd</sup> **2018**.
- Addison Iszler, Nicholas J. White, Marco Bonizzoni. Polycationic PAMAM dendrimers as noncovalent hosts for anions. Poster presentation at the 50th Annual Southeastern Undergraduate Research Conference 2018. March 3<sup>rd</sup> **2018**. (**undergraduate author**)
- Nicholas J. White, Marco Bonizzoni. Minimal-size molecular tools to explore intermolecular interactions in poly(amidoamine) polyelectrolytes. Oral presentation at 2017 SERMACS. Charlotte, NC, November 7<sup>th</sup> – 11<sup>th</sup> **2017**.
- Michael Ihde, Joshua Tropp, Jason Azoulay, Marco Bonizzoni. Detection of metal cations at low concentrations using fluorescent polymers. Oral presentation at 2017 SERMACS. Charlotte, NC, November 7<sup>th</sup> – 11<sup>th</sup> **2017**.
- Xiaoli Liang, Marco Bonizzoni. Cooperative binding in boronic acid-modified PAMAM dendrimers. Oral presentation at 2017 SERMACS. Charlotte, NC, November 7<sup>th</sup> – 11<sup>th</sup> **2017**.
- Nicholas J. White, Joshua Tropp, Jason Azoulay, Marco Bonizzoni. Differentiation of PAHs via optical spectroscopy and LDA. Oral presentation at 2017 SERMACS. Charlotte, NC, November 7<sup>th</sup> – 11<sup>th</sup> **2017**.
- Yifei Xu, Marco Bonizzoni. Dendrimer-based sensing array for carboxylates in water. Oral presentation at 2017 SERMACS. Charlotte, NC, November 7<sup>th</sup> – 11<sup>th</sup> **2017**.
- Marco Bonizzoni. Pattern-based sensing applications of hyperbranched poly(amidoamines). Oral presentation at the 2015 Joint SERMACS-SWRM meeting. Memphis, TN, November 4<sup>th</sup> – 7<sup>th</sup> **2015**.
- Xiaoli Liang, Marco Bonizzoni. Cooperative binding in boronic acid modified PAMAM dendrimers. Oral presentation at the 7<sup>th</sup> Annual Lester Andrews Graduate Symposium at Mississippi State University, Starkville, MS, May 30<sup>th</sup> **2017**. The presentation was awarded the **first prize** in the oral competition.
- Michael H. Ihde, Marco Bonizzoni. Discrimination of metal cation mixtures in water. Oral presentation at the 7<sup>th</sup> Annual Lester Andrews Graduate Symposium at Mississippi State University, Starkville, MS, May 30<sup>th</sup> **2017**. The presentation was awarded the **second prize** in the oral competition.

- Michael H. Ihde, Marco Bonizzoni. A minimal sensor array for metal ion detection in water. Oral presentation at the 6<sup>th</sup> Annual Lester Andrews Graduate Symposium at Mississippi State University, Starkville, MS, May 24<sup>th</sup> **2016**.  
The presentation was awarded the **third prize** in the oral competition.
- Marco Bonizzoni. Pattern-based sensing applications of hyperbranched poly(amidoamines). Oral presentation at the 2015 Joint SERMACS-SWRM meeting. Memphis, TN, November 4<sup>th</sup> – 7<sup>th</sup> **2015**.
- Nicholas J. White, Marco Bonizzoni. Small-molecule models of poly(amidoamine) dendrimers. Poster at the 5<sup>th</sup> Annual Lester Andrews Graduate Symposium at Mississippi State University, Starkville, MS, May 19 – 21<sup>st</sup> **2015**.  
The poster was awarded the **first prize** in the poster competition.
- Marco Bonizzoni. Polyelectrolytes as supramolecular hosts in water: fundamentals and applications. Poster at the *Macromolecular Materials Gordon Research Conference*, Ventura, CA, January 11<sup>th</sup> – 15<sup>th</sup> **2015**.
- Alie M. Mallet, Marco Bonizzoni. An off-the-shelf sensing system for nucleotides and other phosphates. Oral presentation at *SERMACS 2014* in Nashville, TN, Oct. 16 – 19<sup>th</sup> **2014**.
- Ashley M. Jolly, Marco Bonizzoni. Intermolecular forces driving encapsulation of small molecules by PAMAM dendrimers in water. Oral presentation at *SERMACS 2014*, October 16 – 19<sup>th</sup> **2014**.
- Nicholas J. White, Marco Bonizzoni. Small-molecule models of amine-terminated poly(amidoamine) dendrimers. Poster presentation at *SERMACS 2014*, October 16 – 19<sup>th</sup> **2014**.
- Kyle C. Glisson, Marco Bonizzoni. Calorimetric investigation of the interaction of hyperbranched polyelectrolytes with small organic molecules in water. Poster at *SERMACS 2014*, October 16 – 19<sup>th</sup> **2014**. **undergraduate author**.
- Ashley M. Jolly, Marco Bonizzoni. The intermolecular forces driving encapsulation of small molecules by PAMAM dendrimers in water. **Invited poster presentation** at the *Graduate Research Symposium* of the ACS Division of Organic Chemistry, University of California - Irvine. July 24 – 27<sup>th</sup> **2014**.
- Ashley M. Jolly, Marco Bonizzoni. Small molecule encapsulation in PAMAM dendrimers. Poster presentation at the *Mardi Gras Symposium on Supramolecular Chemistry*, Tulane University, New Orleans, LA. February 28<sup>th</sup> **2014**. The poster was awarded a **poster prize**.
- Marco Bonizzoni. Water-soluble polyelectrolytes as hosts for small organic molecules. Poster at the *VIII International Symposium for Macrocyclic and Supramolecular Chemistry (ISMSC-8)*, Arlington, VA, July 7<sup>th</sup> – 11<sup>th</sup> **2013**.
- A. Jolly, A. Mallet, Marco Bonizzoni. Water-soluble polyelectrolytes as supramolecular hosts. Poster at the *Physical Organic Chemistry Gordon Research Conference*, Holderness, NH, June 23<sup>rd</sup> – 28<sup>th</sup> **2013**.
- Marco Bonizzoni. Water-soluble polyelectrolytes: scaffolds for molecular assembly. Invited oral presentation at the *Catalysis and Sensing for our Environment (CASE VIII) Conference*, Austin, TX, April 11<sup>th</sup> – 13<sup>th</sup> **2013**.
- Marco Bonizzoni. Water-soluble polyelectrolytes: scaffolds for molecular assembly. Oral presentation at the *ACS Spring National Meeting*, in New Orleans, LA, April 7-11<sup>th</sup> **2013**.
- Ashley Jolly, Marco Bonizzoni. Small molecule encapsulation in PAMAM dendrimers. Poster at the *ACS Spring National Meeting*, in New Orleans, LA, April 7-11<sup>th</sup> **2013**.
- Alie Mallet, Marco Bonizzoni. Probing intermolecular interactions in polyelectrolyte scaffolds for molecular assembly. Oral presentation at the *ACS Spring National Meeting*, in New Orleans, LA, April 7-11<sup>th</sup> **2013**.
- Ashley Jolly, Alie Mallet, Marco Bonizzoni. Molecular assembly onto water-soluble dendritic polyelectrolytes. Poster at the *Macromolecular Materials Gordon Research Conference*, Ventura, CA, January 6<sup>th</sup> – 11<sup>th</sup> **2013**.
- Ashley Jolly, Marco Bonizzoni. Small molecule encapsulation in PAMAM dendrimers. Oral presentation at the *SERMACS 2012*, NC, November 14-17<sup>th</sup> **2012**.
- Alie Mallet, Marco Bonizzoni. Probing intermolecular interactions in polyelectrolyte scaffolds for molecular assembly. Oral presentation at *SERMACS 2012*, in Raleigh, NC, November 14-17<sup>th</sup> **2012**.
- Keegan McNally, Ashley Jolly, Alie Mallet, Marco Bonizzoni. Probing dye-electrolyte aggregation through absorption and fluorescence spectroscopy. Poster at the *ACS SURC 2012*, in Starkville, MS, April 12-13<sup>th</sup> **2012**. (**undergraduate author**)



- Marco Bonizzoni, Eric V. Anslyn. Towards multicomponent assembly on dendritic scaffolds. Oral presentation at the *ACS Spring National Meeting* in San Francisco, CA, March 21<sup>st</sup> – 25<sup>th</sup> **2010**
- Marco Bonizzoni, Eric V. Anslyn, James J. Valdes, James P. Chambers. Fluorescence anisotropy as an effective probe for the study of the interaction between anionic species and dendritic polycations in aqueous solution. Poster at the *Colloidal, Macromolecular & Polyelectrolyte Solutions Dynamics GRC*, Ventura, CA, February 21<sup>st</sup> – 26<sup>th</sup> **2010**
- Marco Bonizzoni, Eric V. Anslyn, James J. Valdes, James P. Chambers. Fluorescence anisotropy as an effective probe for the study of the interaction between anionic species and dendritic polycations in aqueous solution. Poster at the *Chemical and Biological Defense Conference*, Dallas, TX, November 16<sup>th</sup> – 20<sup>th</sup> **2009**
- Marco Bonizzoni, Eric V. Anslyn. A pattern-based recognition approach to the discrimination of protein kinase enzymes. Poster presented at the *III International Symposium on Macrocyclic and Supramolecular Chemistry (ISMCS-3)*, Las Vegas, NV, July 13<sup>th</sup> – 18<sup>th</sup> **2008**
- Marco Bonizzoni, Luigi Fabbrizzi, Angelo Taglietti, Federico Tiengo. The nature of anion-thiosemicarbazone interactions. Poster presented at the *VII Congresso Nazionale di Chimica Supramolecolare*, Florence, September 4<sup>th</sup> – 7<sup>th</sup> **2005**

## CURRENT SUPPORT

- NSF EPSCoR RII Track 2-FEC (\$ 346,164, Aug. 2016 – Jul. 2022)  
(coPI for UA campus; PI: Jason Azoulay, University of Southern Mississippi)  
RII Track 2-FEC: Emergent Polymer Sensing Technologies for Gulf Coast Water Quality Sensors  
Total funding awarded to project: \$4,000,000.  
Total funding to UA: \$701,027, shared btw. Bonizzoni (Chemistry) and Dimova (Geological Sciences).
- NSF MRI (co-PI, PI: Prof. Paul Rugar, UA) – (\$556,500 Aug 2019 – Jul 2022)  
MRI: Acquisition of a Cryoprobe-equipped nuclear magnetic resonance spectrometer for studying macromolecules, bioactive isolates, and dynamic processes

## PAST SUPPORT

- NSF MRI (co-PI, PI: Prof. Carolyn Cassady, UA) – (\$442,420 Aug 2017 – Jul 2020)  
MRI: Acquisition of a MALDI/TOF-TOF mass spectrometer with imaging capabilities
- The University of Alabama System Collaborative development grant (\$ 2,500, May 2016 – January 2017)  
Polymer-based selective sensing technologies to analyze pollutants in the Alabama and Gulf Coast aquatic ecosystems  
(A collaboration with Dr. Eugenia Kharlampieva, polymer chemist at the Univ. of Alabama – Birmingham)
- The University of Alabama – Office of Academic Affairs (\$ 5,000, June 2014 – September 2015)  
Playing with our food: *avant-garde* molecular gastronomy as a vehicle for chemical education  
(Seed funding to develop educational / outreach professional development workshop for high school chemistry teachers to integrate everyday experiences from food chemistry in chemical education)
- The University of Alabama – A&S College Academy for Research and Creative Activities (\$ 4,500)  
A molecular construction set: template-directed synthesis of large macrocycles
- The University of Alabama – Research Grants Committee (\$ 5,000)  
Fluorescent liposomes as water-dispersed nanoreactors

## PENDING APPLICATIONS

## NOT FUNDED

- NSF EPSCoR RII Track-2 FEC (\$1,074,544 Aug 2021 – July 2025)  
(co-PI for UA campus; PI: Yoan Simon, University of Southern Mississippi)  
RII Track-2 FEC: Polymers for Environmental Remediation and Separation - Innovation for Sustainable Technology (PERSIST) in the Blue Economy
- Track II-R2 seed funding program – sub. Oct. 19th 2019 (\$20,000)  
Electrospun polymer-based amperometric sensor for selective, and sensitive on-site determination of polycyclic aromatics hydrocarbons in aquatic ecosystems
- ACS Bridge Program – sub Nov. 9th 2018 (\$180,000)  
A bridge to the doctorate program to foster the application and retention of underrepresented minorities
- ACS PRF New Directions – sub Mar 2018 (\$110,000)  
Small-molecule models for the intermolecular interactions in PAMAM dendrimers and similar water-soluble amine-terminated polyelectrolytes
- Herman Frasch Foundation – sub. Oct. 28th 2016 (\$250,000)  
Speciation and quantitation of organophosphates in agricultural runoff

- NSF MRI (as coPI, PI: Prof. Carolyn Cassady, UA) – resub. Jan. 2016, declined Jun. 2016  
MRI: Acquisition of a high-performance Fourier transform ion cyclotron resonance mass spectrometer
- ACS Petroleum Research Fund – sub. October 2015 (\$ 110,000, Sep. 2016 – Aug. 2018), decl. May 2016  
Models for the study of intermolecular interactions in PAMAM dendrimers and related polyelectrolytes.
- NSF CHE (MSN) – sub. October 2015 (\$ 259,372, Sep. 2016 – August 2019), decl. April 2016  
Synthetic small models of intermolecular interactions in PAMAM dendrimers and related polyelectrolytes
- NSF CAREER – sub. July 2015 (\$ 572,125, req. funding Sep. 2016 – August 2021), decl. Jan. 2016  
The properties of water-soluble polyelectrolytes as supramolecular hosts
- Samsung Global Research Outreach – sub May 2015 (\$ 90,299, Sep 2015 – Aug 2016), decl. July 2015  
Commercially available polyelectrolytes as innovative organic materials for chemical sensing applications
- ISSNAF Award for Young Investigators – sub. April 2015 (\$ 5,000), decl. June 2016  
Intermolecular interactions in hyperbranched polyelectrolytes: from first principles to analytical applications
- NSF EPSCoR – sub. February 2015 (\$ 360,000, req. Sep. 2015 – Aug. 2019) (as coPI; PI: Sarah Morgan, University of Southern Mississippi), decl. Aug. 2015  
RII Track 2-FEC: Emergent Polymer Sensing Technologies for Gulf Coast Water Quality Sensors
- Camille Dreyfus Teacher-Scholar award program – sub. Feb. 2015 (\$ 75,000, req. Sep. 2015 – Aug. 2020)  
Intermolecular interactions are everywhere! From drug delivery to outreach through food chemistry.
- ACS Petroleum Research Fund – sub. October 2014 (\$ 110,000, Sep. 2015 – August 2017)  
Small-molecule model systems for the study of intermolecular interactions in PAMAM dendrimers and related water-soluble hyperbranched polyelectrolytes.
- NSF CAREER – sub. July 2014 (\$ 712,658, req. Sep. 2015 – August 2020), decl. Dec 2014  
Supramolecular chemistry of water-soluble polyelectrolytes
- NSF MRI (as major user, PI: Prof. Carolyn Cassady, UA) – sub. Jan. 2015, declined Jun. 2015  
MRI: Acquisition of a high-performance Fourier transform ion cyclotron resonance mass spectrometer
- Boehringer Ingelheim – New Investigator Award – sub. July 2013 (\$ 50,000, one year)  
Fluorescent liposomes as water-dispersed nanoreactors, with applications to diversity-oriented synthesis
- NSF CAREER – sub. July 2013 (\$ 750,000, five years); declined Jan. 2014  
How polyelectrolytes work as supramolecular hosts in water
- Research Corporation – Cottrell Scholars – sub. July 2013 (\$ 75,000, three years); declined Dec. 2013  
Polyelectrolytes as supramolecular hosts in water: structure, charge, and the role of solvent
- National Institutes of Justice – Basic Science program – sub. April 2013 (\$ 437,000, five years)  
Self-assembled chemical receptors for multifunctional point-of-contact testing of drugs of abuse
- NSF MRI (as major user, PI: Prof. Shanlin Pan, Chemistry at UA) – sub. Feb. 2012, declined Jan. 2013  
MRI: acquisition of a multichannel pump-probe transient absorption and fluorescence lifetime system for multi-disciplinary research and training at the University of Alabama
- ACS Petroleum Research Fund – sub. Oct. 2012 (\$ 100,000, two years); declined Jan. 2013  
Probing intermolecular interactions of hydrocarbons with polyelectrolyte scaffolds in aqueous solution
- Boehringer Ingelheim – New Investigator Award – sub. July 2012 (\$ 50,000, one year); declined Jan. 2013  
Towards PAMAM dendrimers as selective drug delivery vectors
- Oak Ridge Associated Universities – Powe award – sub. October 2011 (\$ 332,000, three years); declined  
Dye aggregation on oligomeric water-soluble polyelectrolytes
- NIH R15 AREA – sub. June 2011 (\$ 299,992, three years); declined Jan. 2012  
A DNA-based platform for the development of molecular sensors using pattern recognition

POSTDOCTORAL FELLOWS

- Dr. Yuanli Liu Jan. 2013 – Oct. 2014  
now Professor of Materials Science and Engineering  
Guilin University of Technology (China)

GRADUATE STUDENTS AND GRADUATE ALUMNI

- Flor Lozada Santiago Fall 2018 – *current*  
Recipient, graduate McNair Fellowship (2018-2021)  
Recipient, Outstanding 1<sup>st</sup> year graduate student teaching award, 2018-19
- Xiyuan Yao Spring 2018 – *current*
- Yichun Yuan Fall 2020 – *current*

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- Dr. Yifei Xu Spring 2016 – Summer 2021  
Now QA Scientist at API manufacturer (China)
  - Dr. Michael H. Ihde Fall 2015 – Fall 2020  
Now faculty member at Hamilton College (Clinton, NY)  
Recipient, 2016-17 Outstanding 2<sup>nd</sup> year graduate student award (UA)  
Recipient, Dept. of Education's GAANN Fellowship (2017-18, full support)  
Recipient, 2020-21 Outstanding Graduate Student award (UA)
  - Dr. Xiaoli Liang Spring 2015 – Summer 2019  
Now postdoc at University of Western Ontario (Canada)  
Recipient, 2015-16 Outstanding 2<sup>nd</sup> year graduate student award  
Recipient, 2016-17 UA Graduate Council Fellowship (full support)
  - Rezoanul Islam Fall 2017 – Spring 2018  
Now graduate student at Auburn University
  - Dr. Nicholas J. White Fall 2014 – Fall 2018  
Now Research Scientist at WuXi AppTec (Philadelphia, PA)
  - Dr. Michele Invernici June 2016 – December 2016  
Visiting scholar from Univ. of Pavia, Italy  
Now postdoc at Magnetic Resonance Center, Univ. of Florence, Italy
  - Dr. Alie M. Mallet Fall 2010 – Fall 2015  
Now employed at VWR (Education and medical research Representative)  
Adjunct professor, Gwinnett Technical College (Lawrenceville, GA)
  - Dr. Ashley Jolly Fall 2010 – Summer 2015  
Now Senior Instructor at Dept. of Chemistry – University of Kentucky  
Recipient, GAANN fellowship (2011-12 and 2012-13, full support)  
Invitee, 2014 Graduate Research Symposium of the ACS Organic Division

UNDERGRADUATE RESEARCHERS AND ALUMNI

- Emma Sower Spring 2022 – ongoing
- Daniel Thiemann Spring 2020 – Spring 2021
- Miguel Diaz Summer 2019 – Spring 2021  
Now employed at Lockheed – Martin
- Gabrielle Covey Fall 2017 – Spring 2019  
Now employed at TA Instruments (Calorimetry and Rheology)

- Recipient, **Fall 2018 grant** from Undergrad. Research and Creative Activity
  - Undergraduate coauthor, *Chemical Communications*, **2021**
- Addison Iszler
  - Fall 2016 – Spring 2018
  - Recipient, 2018 **Randall Outstanding Undergraduate Research Award**
- Madyson Brown
  - Fall 2016 – Fall 2017
- Flor Lozada Santiago
  - May 29 – July 24 2017 – summer **REU** student – later enrolled in PhD program
- Cara F. Pridmore
  - Summer 2016 – Spring 2017
  - Undergraduate co-author, *Analytical Chemistry*, **2021**
- Jacob Brockwell
  - Spring 2016 – Fall 2017
- Kyle Glisson
  - Summer 2014 – Fall 2015
  - Recipient, 2015 **Randall Outstanding Undergraduate Research Award**
- Tu Minh Vo
  - Spring 2015 – Fall 2015
- Katheryn Adam
  - Fall 2013 – Spring 2015
- Madison Beck
  - Fall 2014 – Spring 2015
  - Recipient, **SGA Undergraduate Research Grant** 2014-15
- James Vegrzyn
  - Fall 2014
- Allison Montgomery
  - Fall 2013 – Spring 2014
  - Rural Medical Scholar** – UA College of Community Health Sciences
- Catherine Cofer
  - Fall 2013 – Spring 2014
- C. Grace Nichols
  - Summer 2012 – Spring 2013
- David Zagardo
  - Summer 2012
- Keegan McNally
  - Fall 2011 – Spring 2012
- Madeleine Angles
  - Fall 2010 – Spring 2011