

Amy Christiansen, PhD

Assistant Professor of Chemistry, Division of Energy, Matter & Systems, School of Science and Engineering
University of Missouri – Kansas City
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EDUCATION

- Ph.D. **Chemistry, University of California, Irvine** 2020
Thesis Advisor: Dr. Ann Marie Carlton
Program: Chemistry, Overall GPA: 3.99, Advanced to Candidacy 04/04/2018
Atmospheric Science, Rutgers University, New Brunswick, NJ 2015 – 2016
(Transferred to Univ. of CA, Irvine, to continue thesis work with Dr. Carlton)
Program: Atmospheric Science, Overall GPA: 4.0
- B.A. **Chemistry & Environmental Studies, Gustavus Adolphus College, St. Peter, MN** 2015
Overall GPA: 3.95, *Summa cum laude*

PROFESSIONAL

- Assistant Professor of Chemistry, University of Missouri – Kansas City** 2022-Present
- Postdoctoral Research, University of Montana, Dr. Lu Hu** 2020-2022
Co-advised by Dr. Loretta Mickley, Harvard University
Constraining NO_x emissions inventories using global observation networks to improve model representation of long-term trends of tropospheric ozone in GEOS-Chem.
- Thesis Research, UCI, Dr. Ann Marie Carlton** 2015 – 2020
Spatiotemporal analysis of water chemistry and impacts on particle chemical composition and radiative implications over the United States assessed via model output, surface monitoring network data, and satellite information.
- Chemistry Research Assistant, Gustavus Adolphus College, Dr. Amanda Nienow** 2013 – 2015
Photochemical fate of pure Imidazolinone herbicides in aqueous solution and on the epicuticular waxes of corn and soybean plants.
- Chemistry Research Assistant, Gustavus Adolphus College, Dr. Jeff Jeremiason** 2012 – 2013
Prevalence, transport, and biological impact of mercury in a mining-affected watershed and in an experimental forest in northern Minnesota.

PUBLICATIONS

† = denotes graduate student advisee
‡ = denotes postdoctoral advisee
* = denotes corresponding author

19. [2026] Vo, T.†; **Christiansen, A.***: The Changing Sensitivity of Wintertime Particulate Nitrate to Precursor Emissions Diagnosed via GEOS-Chem and Satellite Observations of Ammonia and Nitrogen Dioxide over the Midwestern United States. *Atmos. Chem. Phys.*, 26, 9493-9508, <https://doi.org/10.5194/acp-26-9493-2026>.
18. [2026] Khan, S.; Akbari Lor, M.; Chen, S-C; Shyu, M-L, **Christiansen, A.**: Data-Driven Surface Ozone Forecasting Using Node-Based Gated Spatiotemporal Fusion. *IEEE Transactions on Geoscience and Remote Sensing*, 64, 3002810, <https://doi.org/10.1109/TGRS.2026.3725283>.
17. [2026] Khan, S.; Akbari Lor, M.; Chen, S-C; Shyu, M-L, **Christiansen, A.**: Modeling Tropospheric Ozone with Graph-Based Spatiotemporal Learning Framework. *Symbolic AI and Heuristics for Data Science*. [book chapter], ed. Lydia Bouzar-Benlabiod and Nan Niu. Taylor & Francis.

16. [2025] Ojha, S.†; Monroe, L.‡; **Christiansen, A.***: Evaluation and Source Apportionment of Persistent Decadal Air Pollutant Disparities in Kansas City, Missouri. *J. Air Waste Manag. Assoc.*, 1-11, <https://doi.org/10.1080/10962247.2025.2572810>.
15. [2025] Khan, S.; Akbari Lor, M.; Chen, S-C; Shyu, M-L, **Christiansen, A.**: STCN-Ozone: A Graph-Based Spatiotemporal Forecasting Framework for Modeling Tropospheric Ozone. *2025 IEEE International Conference on Information Reuse and Integration and Data Science (IRI)*, 37-42, <https://doi.org/10.1109/IRI66576.2025.00015>.
14. [2024] Vo, T.†; **Christiansen, A.***: Impact of Recent Agricultural Ammonia Increases on Fine Particulate Matter Burden over the Midwestern United States. *ACS Earth Space Chem.*, **8**, 11, 2209-2217, <https://doi.org/10.1021/acsearthspacechem.4c00180>.
13. [2024] **Christiansen, A.***; Mickley, L.J.; Hu, L.: Constraining Long-Term NO_x Emissions over the United States and Europe using Nitrate Wet Deposition Monitoring Networks. *Atmos. Chem. Phys.*, **24**, 4569–4589, <https://doi.org/10.5194/acp-24-4569-2024>.
12. [2024] Shah, V.; Keller, C.A.; Knowland, K.E.; **Christiansen, A.**; Hu, L.; Wang, H.; Lu, X.; Alexander, B.; Jacob, D.J.: Particulate nitrate photolysis as a possible driver of rising tropospheric ozone. *Geophys. Res. Lett.*, **51**, 5, e2023GL107980, <https://doi.org/10.1029/2023GL107980>.
11. [2022] Flesch, M.M.; **Christiansen A.E.**; Burns, A.M.; Ghate, V.P.; Carlton, A.G.: Ambient Aerosol is Physically Larger on Cloudy Days in Bondville, Illinois. *ACS Earth Space Chem.*, **6**, 12, 2910-2918, <https://doi.org/10.1021/acsearthspacechem.2c00207>.
10. [2022] **Christiansen, A.***; Mickley, L.J.; Liu, J.; Oman, L.D.; Hu, L.: Multidecadal increasing global tropospheric ozone derived from ozonesonde and surface site observations: Can models reproduce ozone trends? *Atmos. Chem. Phys.*, **22**, 14751-14782, <https://doi.org/10.5194/acp-22-14751-2022>.
9. [2021] Pratap, V.; Carlton, A.G.; **Christiansen, A.E.**; Hennigan, C.J.: Partitioning of ambient organic gases to inorganic salt solutions: influence of salt identity, ionic strength, and pH. *Geophys. Res. Lett.*, **48**, e2021GL095247.
8. [2021] Pratap, V.; **Christiansen, A.**; Carlton, A.G.; Lance, S.; Casson, P.; Dukett, J.; Hassan, H.; Schwab, J.; Hennigan, C.: Investigating the evolution of water-soluble organic carbon in evaporating cloud water. *Environ. Sci.: Atmos.*, **1**, 21-30.
7. [2020] Lance, S.; Zhang, J.; Schwab, J.; Casson, P.; Brandt, R.; Fitzjarrald, D.; Schwab, M.; Lu, C.-H.; Chen, S.-P.; Yun, J.; Freedman, J.; Shrestha, B.; Min, Q.; Beauharnois, M.; Crandall, B.; Everette, J.; Brewer, M.; Minder, J.; Orłowski, D.; **Christiansen, A.**; Carlton, A.G.; Barth, M.: Overview of the CPOC Pilot Study at Whiteface Mountain, NY: Cloud Processing of Organics within Clouds (CPOC). *Bull. Am. Meteorol. Soc.*, 1-63.
6. [2020] **Christiansen, A.E.**; Carlton, A.G.; Henderson, B.H.: Differences in Fine Particle Chemical Composition on Clear and Cloudy Days. *Atmos. Chem. Phys.*, **20**, 11607–11624.
5. [2020] Carlton, A.G.; **Christiansen, A.E.**; Flesch, M.; Hennigan, C.J.; Sareen, N.: Multiphase Atmospheric Chemistry in Liquid Water: Impacts and Controllability of Organic Aerosol. *Acc. Chem. Res.*, **53**, 9, 1715–1723.
4. [2020] **Christiansen, A.E.***; Carlton, A.G.; Porter, W.C.: Changing Nature of Organic Carbon over the United States. *Env. Sci. Technol.*, **54**, 17, 10524-10532.
3. [2019] **Christiansen, A.E.**; Ghate, V.P.; Carlton, A.G.: Aerosol Optical Thickness: Organic Composition, Associated Particle Water, and Aloft Extinction. *ACS Earth Space Chem.*, **3**, 3, 403-412.
2. [2016] Anderson, S.C.; **Christiansen, A.**; Peterson, A.; Beukelman, L.; Nienow, A.M.: Statistical Analysis of the Photodegradation of Imazethapyr on the Surface of Extracted Soybean (Glycine max) and Corn (Zea mays) Epicuticular Waxes. *Environ. Sci.: Processes Impacts*, **18**, 10, 1305-1315.
1. [2015] **Christiansen, A.**; Peterson, A.; Anderson, S.C.; Lass, R.; Johnson, M.; Nienow, A.M.: Analysis of the Photodegradation of the Imidazolinone Herbicides Imazamox, Imazapic, Imazaquin, and Imazamethabenz-methyl in Aqueous Solution. *J. Agric. Food Chem.*, **63**, 50, 10768–10777.

Copies of these publications are available upon request.

FUNDING

* = Denotes Lead PI

4. **US Department of Transportation Center for Healthy and Durable Transportation**, “The Impacts of Automobile Transportation-Generated Ozone and the Urban Heat Island Effect on the Kansas City Metropolitan Area” (Jan 2026 – Dec 2026), **\$77,995; Percent Effort = 5%**

***Pending final approval by DOT**

3. ***US Department of Transportation Environmentally Responsible Transportation Center for Communities of Concern (ERTC³)**, “Evaluation of the Role of Traffic Emissions in Elevated Particulate Matter Exposure in Disadvantaged Communities in Kansas City, MO” (Jan 2025 – Dec 2025), **\$78,000; Percent Effort = 10%**

***Discontinued May 2025 due to changing of federal administration priorities**

2. ***Art of Grantsmanship Small Grant**, “Constraining Tropospheric Ozone Formation Regimes and Validating Low-Cost Sensors with Tropospheric Emissions: Monitoring of Pollution (TEMPO) Satellite Observations”, **Completed** (Jan 2024 – May 2024), **\$3660; Percent Effort = 5%**

1. ***Funding for Faculty Excellence**, “Constraining Tropospheric Ozone Formation Regimes in Kansas City using High Resolution Observations from the Tropospheric Emissions: Monitoring of Pollution (TEMPO) Satellite”, **Completed** (Jan 2024 – Dec 2024), **\$9984; Percent Effort = 5%**

PRESENTATIONS

44. Chemjong, K.; Christiansen, A. (2026) **Poster**: “Diagnosing Sub-Diurnal and Long-Term Variability in Ozone Formation Regimes in Kansas City via Satellite and Surface Observations”, American Chemical Society Fall Meeting, Chicago, IL, August 2026.

43. Vo, T.; Christiansen, A. (2026) **Poster**: “Seasonal NO_x constraints to improve secondary pollutant representation in models using nitrate wet deposition observations over the Midwestern United States”, American Chemical Society Fall Meeting, Chicago, IL, August 2026.

42. Vo, T.; Christiansen, A. (2026) **Poster**: “Nitrate Wet Deposition as a Constraint on NO_x Emissions and Impacts on Modeled Secondary Pollutants”, National Atmospheric Deposition Program Spring Conference, Madison, WI, June 2026.

41. ****Invited: Christiansen, A.**; Vo, T.; Ojha, S.; Monroe, L. (2026) **Invited Speaker**: “From Farm to City: A Primer on Multi-scale Atmospheric Chemistry Relevant to Midwestern Air Quality”, Truman State University, Kirksville, MO, May 2026.

40. ****Invited: Christiansen, A.**; Mickley, L.J.; Liu, J.; Oman, L.D.; Hu, L. (2026) **Invited Speaker**: “Constraining Long-Term NO_x Emissions over the United States and Europe using Nitrate Wet Deposition Monitoring Networks”, National Atmospheric Deposition Center TDep Webinar Series, Virtual, April 2026.

39. ****Invited: Christiansen, A.**; Vo, T.; Ojha, S.; Monroe, L. (2026) **Invited Speaker**: “From Farm to City: A Primer on Multi-scale Atmospheric Chemistry Relevant to Midwestern Air Quality”, University of Kansas 76th Environmental Engineering Conference, Lawrence, KS, April 2026.

38. ****Invited: Christiansen, A.** (2026) **Guest Lecture**: “Tropospheric Atmospheric Chemistry and Models”, Rowan University, NJ, Virtual, March 2026.

37. Vo, T.; Christiansen, A. (2025) **Oral**: “Spatiotemporal Analysis of the Sensitivity of Wintertime Particulate Nitrate to Precursor Emissions over the Midwestern United States”, American Geophysical Union Fall Meeting, New Orleans, LA, December 2025.

36. Vo, T.; Christiansen, A. (2025) **Poster and Oral Flash Talk**: “Wintertime Particulate Nitrate Formation is Trending Toward More NO_x Sensitivity in the Agricultural Midwestern United States”, American Geophysical Union Fall Meeting, New Orleans, LA, December 2025.

35. ****Invited: Christiansen, A.**; Vo, T.; Ojha, S.; Monroe, L. (2025), “From Farm to City: A Primer on Multi-scale Atmospheric Chemistry Relevant to Midwestern Air Quality”, American Chemical Society – Kansas City Section Monthly Meeting, Kansas City, MO, November 2025.

34. ****Invited: Christiansen, A.** (2025) **Guest Lecture**: “Tropospheric Atmospheric Chemistry and Models”, Rowan University, NJ, Virtual, November 2025.

33. ****Invited: Christiansen, A.** (2025) *Guest Lecture*: “HTAP3/OPNS Model Evaluation Plans”, for international Hemispheric Transport of Air Pollution planning meeting (online and in Germany), April 2025.
 32. ****Invited: Christiansen, A.** (2025) *Guest Lecture*: “Tropospheric Atmospheric Chemistry and Models”, Rowan University, NJ, Virtual, March 2025.
 31. Vo, T.; **Christiansen, A.** (2024) *Poster*: “Impact of Recent Agricultural Ammonia Increases on Fine Particulate Matter Burden over the Midwestern United States”, American Geophysical Union Fall Meeting, Washington, DC, December 2024.
 30. Monroe, L.; **Christiansen, A.** (2024) *Poster*: “Aerosol Phase Hygroscopicity and Aerosol Water Content is Driven by Nitrate and Organics in the Particle Phase in Houston, TX”, American Geophysical Union Fall Meeting, Washington, DC, December 2024.
 29. ****Invited: Christiansen, A.**; Vo, T.; Ojha, S.; Monroe, L. (2024) *Guest Lecture*: “A Primer on Midwestern Air Quality: From Agricultural Emissions to Environmental Justice”, Benedictine College, Atchison, KS, October 2024.
 28. ****Invited: Christiansen, A.** (2024) *Guest Lecture*: “A Primer on Midwestern Air Quality: From Agricultural Emissions to Environmental Justice”, Massachusetts Institute of Technology Atmospheric Chemistry Colloquium, Virtual, March 2024.
 27. ****Invited: Christiansen, A.** (2024) *Guest Lecture*: “A Primer on Midwestern Air Quality: From Agricultural Emissions to Environmental Justice”, Truman State University, Kirksville, MO, March 2024.
 26. ****Invited: Christiansen, A.**; Mickley, L.J.; Liu, J.; Oman, L.D.; Hu, L. (2024) *Guest Lecture*: “Constraining Long-Term NO_x Emissions over the United States and Europe using Nitrate Wet Deposition Monitoring Networks”, CEMM-ACE New Insights in Atmospheric Science Seminar, Environmental Protection Agency, Virtual, January 2024.
 25. ****Invited: Christiansen, A.** (2023) *Guest Lecture*: “Tropospheric Atmospheric Chemistry and Models”, Rowan University, NJ, Virtual, November 2023.
 24. ****Invited: Christiansen, A.** (2023) *Guest Lecture*: “Long-Term Trends in Air Pollutants: Implications for Health and Climate”, University of Missouri – Kansas City, Kansas City, MO, October 2023.
 23. ****Invited: Christiansen, A.** (2023) *Guest Lecture*: “Long-Term Trends in Air Pollutants: Implications for Health and Climate”, Pittsburg State University, Pittsburg, KS, October 2023.
 22. Ojha, S.; **Christiansen, A. (presenter)** (2023) *Oral*: “Fine Particulate Matter Disparities in Kansas City, MO, are Significant and Persist Across the Past Decade”, American Association for Aerosol Research 41st Annual Conference, Portland, OR, October 2023.
 21. Vo, T.; **Christiansen, A.** (2023, graduate student presenter) *Poster*: “Quantifying the Impact of Agricultural Ammonia Increases on Particulate Matter Burden over the Midwestern United States”, American Association for Aerosol Research 41st Annual Conference, Portland, OR, October 2023.
- **Awarded Student Poster Award**
20. ****Invited: Christiansen, A.** (2023) *Guest Lecture*: “Evaluating the Environmental Justice Air Quality Landscape in Kansas City, MO”, American Geophysical Union Early Career Seminar Series, Virtual, June 2023.
 19. **Christiansen, A.** (2023) *Poster*: “Evaluating the Air Quality Environmental Justice Landscape in the Kansas City Metropolitan Area”, American Chemical Society Spring Meeting, Indianapolis, IN, March 2023
 18. ****Invited: Christiansen, A.** (2023) *Guest Lecture*: “Long-Term Trends in Air Pollutants: Implications for Health and Climate”, Avila University, Kansas City, MO, March 2023
 17. **Christiansen, A.E.**; Mickley, L.J.; Liu, J.; Oman, L.D.; Hu, L. (2022) *Oral*: “Constraining Long-Term NO_x Emissions over the United States and Europe to Improve Simulations of Tropospheric Ozone”, 10th International GEOS-Chem Meeting, Washington University in St. Louis, MO, June 2022
 16. ****Invited: Christiansen, A.E.** (2022) *Guest Lecture*: “A Brief Primer on Atmospheric Aerosols: Water, Water, Everywhere”, University of Montana CHMY 541, Missoula, MT, May 2022
 15. ****Invited: Christiansen, A.E.** (2022) *Guest Lecture*: “Spatiotemporal Trends of Trace Atmospheric Pollutants on Regional Scales: Impacts on Climate and Air Quality”, University of Missouri – Kansas City, February 2022
 14. **Christiansen, A.E.**; Mickley, L.J.; Liu, J.; Hu, L. (2021) *Oral*: “Multidecadal Global Ozone Trends from Ozone Sonde and Surface Background Sites: Why Can’t Models Reproduce Trends?”, American Geophysical Union Fall Meeting, December 2021

13. Christiansen, A.E.; Mickley, L.J.; Hu, L. (2021) **Oral**: “Constraining Long-Term NO_x Emissions over the United States and Europe to Improve Model Simulations of Tropospheric Ozone”, American Geophysical Union Fall Meeting, December 2021
 12. Christiansen, A.E.; (2021) **Oral**: “Constraining Long-Term NO_x Emissions over the United States and Europe to Improve Model Simulations of Tropospheric Ozone”, Atmospheric Chemistry Colloquium for Emerging Senior Scientists XVI, December 2021
 11. ****Invited: Christiansen, A.E.** (2021) **Guest Lecture**: “Spatiotemporal Trends of Trace Atmospheric Pollutants and Their Impacts”, University of Montana, November 2021
 10. Christiansen, A.E.; Mickley, L.; Hu, L. (2020) **Virtual Poster**: “Constraining long-term NO_x emissions over the United States and Europe to improve model simulations of tropospheric ozone”, American Geophysical Union Fall Meeting, November 2020
 9. Christiansen, A.E.; Carlton, A.G.; Henderson, B.H. (2020) **Virtual Poster**: “Differences in Fine Particle Chemical Composition on Clear and Cloudy Days”, American Association for Aerosol Research Annual Conference, October 2020
 8. Christiansen, A.E.; Carlton, A.G.; Davis, J.M.; Porter, W.C. (2019) **Poster**: “Decadal Trends in Particulate Organic Carbon Volatility Fractions”, American Chemical Society National Meeting & Expo, San Diego, CA, August 27, 2019
 7. ****Invited: Christiansen, A.E.** (2019) **Guest Lecture**: “The Clear Sky Bias: A Perspective from a Girl with Her Head in the Clouds”, UCI Southern California Undergraduate Research Symposium, Irvine, CA, August 3, 2019
 6. Christiansen, A.E.; Carlton, A.G.; Henderson, B.H.; Srivistava, D.; Daniels, J. (2019) **Oral**: “The Clear Sky Bias: Reconciling Satellite and Surface Measurements of Atmospheric Aerosol Burden” at the AirUCI Internal Symposium, Irvine, CA, March 28, 2019
 5. Christiansen, A.E.; Ghatge, V.P.; Carlton, A.G. (2018) **Poster**: “Aerosol Optical Thickness: Organic Volatility and Associated Particle Water” at the American Geophysical Union Fall Meeting, Washington, DC, December 13, 2018
 4. Christiansen, A.E.; Ghatge, V.P.; Carlton, A.G. (2018) **Oral**: “Aerosol Optical Thickness: Regional Variation in Organic Composition and Associated Particle Water” at the Lake Arrowhead AirUCI Retreat, Lake Arrowhead, CA, September 25, 2018
 3. Christiansen, A.E. and Carlton, A.G. (2017) **Poster**: “Spatial Differences in Summertime Enhancement of Aerosol Optical Thickness: Organic Carbon Fractionation and Particle Size”, American Association for Aerosol Research Annual Conference, Raleigh, NC, October 17, 2017
- **Awarded Student Poster Award**
2. Christiansen A.; Peterson, A.; Nienow, A.M. (2014) **Poster**: “Photodegradation of Imidazolinone Herbicides and Pesticides in Aqueous Solution and on Plant Surfaces” at the American Chemical Society National Meeting, San Francisco, CA, August 2014
 1. Christiansen A.; Peterson, A.; Nienow, A.M. (2013) **Poster**: “Imidazolinone Herbicides: Photodegradation in Aqueous Solution and on Waxes” at the Midstates Consortium Undergraduate Research Symposium in the Physical Sciences, Math, and Computer Science at the University of Chicago, Chicago, IL, October 25, 2013

TEACHING

At UMKC:

†Indicates new course development

†Environmental Chemistry I (CHEM 387/5587)

Taught 4 semesters

†Environmental Chemistry II (CHEM 388/5588)

Taught 2 semesters

Special Topics in Chemistry (CHEM 390)

Taught 3 semesters

†**Introduction to Principles of Forensic Investigation** (CHEM 445 and CHEM 495)
 Taught 2 semesters
Experimental General Chemistry I (CHEM 211L)
 Taught 1 semester

Nominated for Provost's Award for Excellence in Teaching, Fall 2025

Prior to UMKC:

***Indicates instructor of record**

***General Chemistry Plus** (Univ. of CA, Irvine) – 1 quarter (instructor of record)
Chemical Kinetics (Univ. of CA, Irvine) – 1 quarter (TA)
General Chemistry Lab & Lecture (Univ. of CA, Irvine) – 3 quarters (TA)
Introduction to Climate Science (Rutgers University) – 1 semester (TA)
Environmental Chemistry (Gustavus Adolphus College) – 1 semester (TA)
General Chemistry Lab (Gustavus Adolphus College) – 1 semester (TA)

PEDAGOGICAL TRAINING AND MENTORSHIP

Center for the Improvement of Mentored Experiences in Research Training Program	<i>2025</i>
UMKC Center for Advancing Faculty Excellence Faculty Learning Community on Accessible Teaching and Learning	<i>2024</i>
UMKC Center for Advancing Faculty Excellence Mentorship Program	<i>2024</i>
NCFDD Faculty Success Program	<i>2024</i>
Early Career Geoscience Faculty: Teaching, Research, and Managing Your Career	<i>2023</i>
Mobile Summer Institute on Scientific Teaching, University of Montana	<i>2021</i>
University of California, Irvine, Course Design Certificate	<i>2018</i>
University of California, Irvine, 390X: Developing Teaching Excellence	<i>2018</i>
University of California, Irvine, Center for the Integration of Research, Teaching, and Learning Associate Level	<i>2018</i>
Preparing for the Faculty Career Program	<i>2019</i>
Teaching Assistant Mentor	<i>AY 2018-2019</i>
Near-Peer Mentor (with Reed College)	<i>Spring 2019</i>

Postdoctoral Fellows Mentored:

- 1) Luke Monroe, now a tenure-track faculty member at Northwest Missouri State University

Graduate Students Mentored:

- 1) Shreeram Ojha, MS (December 2025)
- 2) Toan Vo, MS (May 2024) – now a PhD Student (ongoing)
- 3) Kabin Chemjong, PhD Student (ongoing)
- 4) Sui Par, MS (May 2025)
- 5) Kyndall Robinsons, MS (May 2026)
- 6) Roslyn O'Learly, MS (ongoing)

Undergraduate Students Mentored:

- 1) Sara Petropoulos, BS (May 2024)
- 2) Arianne Olsen, BS (May 2024)
- 3) Lizbeth Gracida-Basurto, BS (May 2026)
- 4) Blaker Warner, BS (ongoing)
- 5) Ziona Patterson, BS (May 2026)

Student MS and Doctoral Committees:

Completed:

Brittney Zimmerle, UMKC, 2023 (MS Chemistry)

Toan Vo, UMKC, 2024 (MS Chemistry) **(chair)**
Shreeram Ojha, UMKC, 2025 (MS Chemistry) **(chair)**
Yaren Karatas, UMKC, 2025 (MS Civil Engineering)

Ongoing:

Toan Vo, UMKC, expected Spring 2027 (PhD Chemistry) **(chair)**
Kabin Chemjong, UMKC, expected Fall 2028 (PhD Chemistry) **(chair)**
Swagotom Sarkar, UMKC, expected Spring 2028 (PhD Civil Engineering) **(co-advisor)**

HONORS AND AWARDS

Nominated for Provost's Award for Excellence in Teaching	2025
Atmospheric Chemistry Colloquium for Emerging Senior Scientists (ACCESS XVI)	2021
Most Promising Future Faculty Award, Department of Chemistry, Univ. of CA, Irvine	2020
Women in the Sciences Leadership Workshop, Earth Science Women's Network, Boulder, CO	2019
Student Poster Award at the 2017 American Association for Aerosol Research Annual Conference	
School of Environmental and Biological Sciences Excellence Fellowship, Rutgers Univ.	2015-2016
Phi Beta Kappa Society, <i>inducted Spring</i>	2014
American Chemical Society Division of Environmental Chemistry Undergraduate Student Award	2014
Barry Goldwater Scholarship Nominee	2014

INTERNSHIPS AND FELLOWSHIPS

Air Quality Monitoring Intern, EPA Region 2 Environmental Center, Edison, NJ	Summer 2016
School of Environmental and Biological Sciences Excellence Fellow, Rutgers Univ.	AY 2015 – 2016

SERVICE AND AFFILIATIONS

American Chemical Society
American Geophysical Union

Serving on AGU Atmospheric Sciences Early Career Committee (ongoing)

American Association for Aerosol Research

UMKC:

Served on search committee for new Earth & Environmental Sciences faculty member (2025)
School of Science & Engineering Scholarship Application Reviewer (2025)
UMKC Scholarship Application Reviewer (2024, 2025)
Faculty mentor for new Earth & Environmental Sciences faculty member, Dr. Yihang Fang (2025-2026)
Faculty advisor for student organization Roo Serve
Honors Faculty Mentor for incoming first-year students (2025-2026)

National/International:

National Center for Atmospheric Research Climate Data Board, Atmospheric Chemistry Expert (ongoing);
United Nations Economic Commission for Europe Task Force on Hemispheric Transport of Air Pollution,
Contributing Scientist (ongoing)

Served as reviewer for Atmospheric Chemistry & Physics, Journal of Geophysical Research: Atmospheres, Environmental Science & Technology, Environmental Science: Atmospheres, Science of the Total Environment, Environmental Science & Technology Letters, Atmospheric Chemistry and Physics, Environmental Pollution, Science Advances, Environmental Monitoring and Assessment

Reviewed grant applications for National Science Foundation and National Aeronautics and Space Administration