EMILY R. RHODES

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EDUCATION

Expected in Dec 2026 — **Ph.D. in Geography**
Texas State University
Dissertation (in progress): From Frontier to Food Desert and Back Again: Tracing Racialized Redevelopment and Resistance in Oklahoma City's Black Spaces

May 2022 — **Master of Environmental Science**
University of Oklahoma
Thesis: Monitoring Norman, Oklahoma for Temporal Variation in SARS-CoV-2 Using Wastewater During University of Oklahoma Football Games

May 2019 — **B.S. in Environmental Sustainability**
University of Oklahoma
- Minor in Geographic Information Science
- Graduated with distinction

TEACHING EXPERIENCE

Jan 2025 - Current — **Instructor of Record** / Texas State University
- Urban Geography

Jan 2024 - Dec 2024 — **Teaching Assistant** / Texas State University
- Urban Geography

Jan 2022 - Dec 2023 — **Laboratory Instructor** / Texas State University
- Physical Geography

Jan 2022 - Dec 2022 — **Grading Teaching Assistant** / University of Oklahoma
- Hydrology

Jan 2019 - Dec 2019 — **Undergraduate Teaching Assistant** / University of Oklahoma
- Inequality in a Global Perspective

RESEARCH EXPERIENCE

- Research Assistant, Department of Geography and Environmental Studies, Texas State University, August 2022, Present
- Graduate Research Assistant, Oklahoma Water Survey (University of Oklahoma), August 2021, May 2022

- Assistant Hydrologic Scientist, Oklahoma Water Survey (University of Oklahoma), May 2019, August 2021
- Undergraduate Research Assistant, Oklahoma Water Survey (University of Oklahoma), January 2018, May 2019

PRESENTATIONS

- From Frontier to Food Desert and Back Again: Tracing Racialized Development and Resilience in Oklahoma City's Black Spaces, SWAAG/AGX Joint Conference, 2024-10-01
- Movement and the Modern Frontier: Discursive and Material Transformations of Oklahoma City Since the 1960s, AAG, 2024-04-01
- The Desert and the Frontier: The Redevelopment of Oklahoma City, SWAAG, 2023-10-01
- POSTER: Using Wastewater Based Epidemiology to Monitor Temporal Variations in SARS-CoV-2 Concentration in a College Town During Football Games, Oklahoma Governor's Water Conference, 2021-12-01
- POSTER: Monitoring Green Infrastructure in a Paired Watershed, Oklahoma Governor's Water Conference, 2019-12-01
- Occurrence of Escherichia coli and Enterococcus in Oklahoma Streams During the 2018 Recreational Season, Oklahoma Clean Lakes and Watersheds Association Annual Conference, 2019-04-01
- POSTER: Occurrence of Escherichia coli and Enterococcus in Oklahoma Streams During the 2018 Recreational Season, Oklahoma Governor's Water Conference, 2018-12-01

PROFESSIONAL MEMBERSHIPS

- SWAAG, Student Representative, 2024-2025
- Oklahoma Clean Lakes and Watersheds Association Norman Student Chapter, Vice President, President, 2019-2022
- Oklahoma Clean Lakes and Watersheds Association, 2019-2022
- American Society of Agricultural and Biological Engineers, 2020-2021
- Green Week Executive Chair, University of Oklahoma, 2019

AWARDS

- Southwest American Association of Geographers (SWAAG) Summer Research Scholarship, 2023, 400
- Amita Malwade Graduate Scholarship in Human Geography, 2023, 200
- Detlefsen Doctoral Excellence – PhD Scholarship, 2023, 1000
- Doctoral Merit Award, Texas State University, 2022
- Award of Excellence, University of Oklahoma, 2016-2019
- President's Community Scholar, University of Oklahoma, 2016

PUBLICATIONS

- 2024, Rhodes, Emily R., Jason Vogel, Bryce C. Lowery, Aikaterini P. Kyprioti, Madison R.E. Swayne, Bradley Stevenson, Grant M. Graves, Erin R. Jeffries, Katrin Kuhn. “Monitoring the Impact of College Football Games on SARS-CoV-2 Levels in Wastewater Using Cell Phone Data to Account

for Sewershed Population Changes." Environments Wastewater-Based Epidemiology Assessment Special Issue.
- 2023, Martin, Max, Paul Goethals, Kathryn Newhart, Emily Rhodes, Jason Vogel, and Bradley Stevenson. "Optimization of Sewage Sampling for Wastewater-Based Epidemiology through Stochastic Modeling." Journal of Engineering and Applied Science 70, no. 1 (2023-02-15): 11. https://doi.org/10.1186/s44147-023-00180-1
- 2021, Kuhn, Katrin Gaardbo, Jane Jarshaw, Erin Jeffries, Kunle Adesigbin, Phil Maytubby, Nicole Dundas, A. Caitlin Miller, et al. "Predicting COVID-19 Cases in Diverse Population Groups Using SARS-CoV-2 Wastewater Monitoring across Oklahoma City." Science of The Total Environment 812 (2022-03-15). https://doi.org/10.1016/j.scitotenv.2021.151431
- 2021, Jayakaran, Anand D., Emily Rhodes, and Jason Vogel. "Stormwater Management at the Lot Level: Engaging Homeowners and Business Owners to Adopt Green Stormwater Infrastructure." Oxford Research Encyclopedia of Environmental Science, 2021-04-26. https://doi.org/10.1093/acrefore/9780199389414.013.653
- 2020, Rodak, Carolyn M., Anand D. Jayakaran, Trisha L. Moore, Ray David, Emily R. Rhodes, and Jason R. Vogel. "Urban Stormwater Characterization, Control, and Treatment." Water Environment Research 92, no. 10 (2020): 1552–86. https://doi.org/10.1002/wer.1403