

# JASMINE H. MCADAMS

jmcadams@berkeley.edu

## EDUCATION

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**University of California, Berkeley, CA**  
MS/PhD in Energy & Resources

Aug 2022 – Present

**Brown University, Providence, RI**  
BSc in Geology-Biology

Sep 2012 – May 2016

## RESEARCH EXPERIENCE

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**Coastal Habitat Research Technician | UNC-CH Institute of Marine Sciences**

Jan - Nov 2017

Principal Investigator: Christine Voss

Morehead City, NC

### Ecological Effects of Sea-Level Rise in North Carolina

- Conducted elevation surveys of 10 marsh sites along the North Carolina coast using RTK Trimble, laser level and handheld GPS devices
- Developed digital elevation models of marsh sites in ENVI and ArcGIS which were used to build wave attenuation models
- Collected and processed marsh rush (*Juncus*) and cord grass (*Spartina*) to create vegetation density maps
- Deployed and maintained in-situ water level sensors across 10 field sites across coastal North Carolina

### North Carolina King Tides Project

- Developed outreach content (e.g., blog posts, presentations, news/radio stories, lesson plans) for the North Carolina King Tides Project to communicate local flood risk
- Designed and installed water level gauges to provide a more complete record of water level along the North Carolina coast

**Mellon Mays Fellow | Brown Department of Earth, Environmental, and Planetary Sciences**

May 2014 – May 2016

Advisor: Warren Prell

Providence, RI

### Paleoecological Analysis of Diatoms as Indicators for Environmental Change in Narragansett Bay

- Investigated diatom assemblages as indicators of anthropogenically-driven environmental change in Narragansett Bay, specifically focusing on the impact of the industrial revolution on primary productivity in the bay
- Developed a method to clean sediment samples using nitric acid that preserved marine diatoms for microscopic analysis
- Used a light microscope to identify and count diatom species from cores across Narragansett Bay, and used sample counts to calculate abundance and diversity
- Cross-analyzed diatom abundance and diversity data with sediment lead, organic carbon, and nitrogen data
- Found that indicators of increased anthropogenic activity coincided with changes in diatom assemblages, as both overall diatom abundance and activity decreased after the industrial revolution. I also identified coinciding changes in the ratio of centric to pennate diatoms and species-specific changes

**Research Assistant | University of Maryland Environmental Decision Support Lab**

May – Jul 2015

Principal Investigator: Melissa Kenney

College Park, MD

### Addressing the State of Adaptation in Estuaries: A Narragansett Bay Case Study

- Identified process indicators for climate change adaptation in Narragansett Bay by analyzing adaptation reporting documents (e.g., reports, policy documents, plans)
- Coded indicators into an Excel database and characterized them by variables such as the action objective, level of action, status of the action, and the motivating anthropogenic stimulus
- Used this database to identify major action and research gaps for adaptive management in the estuary and to serve as a template for assessing the state of adaptation in other estuarine systems

### Research, Development and Implementation of National and Regional Physical, Ecological, and Societal Climate Indicators for the NOAA and the USGCRP National Climate Assessment

- Provided administrative and research support to the Indicators Team of the U.S. Global Change Research Program in the development a climate indicator system

**Research Assistant | University of Florida Ecohydrology Lab**

Jun – Aug 2013

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Graduate Researcher: Courtney Reijo

Gainesville, FL

## Assessing Stream Response to Reduced Nitrate Levels

- Assisted a graduate student in an investigation to understand how lotic systems respond to changes in nitrate concentration below ambient levels
- Constructed benthic chambers which were set up in the field to characterize in-stream nitrate utilization
- Calibrated and deployed in-situ sensors to measure nitrate, dissolved oxygen, pH, oxidation-reduction potential, temperature, and light

## **RELATED PROFESSIONAL EXPERIENCE**

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- Senior Program Officer | National Association of Regulatory Utility Commissioners** Aug 2020 – Jul 2022  
Washington, DC
- Support cooperative partnerships between NARUC and the U.S. Department of Energy on Carbon Capture, Utilization and Storage, and Nuclear Energy to educate and develop resources for state public utility commissions (PUCs)
  - Manage NARUC's Electric Vehicles State Working Group by developing reports and organizing monthly webinars
  - Plan an Energy Justice Roundtable with members from PUCs, state energy offices, and governors' offices
  - Prepared the Public Utility Commission Stakeholder Engagement: A Decision-Making Framework report, which offers PUCs a roadmap to evaluate their approach to stakeholder engagement
  - Co-authored The Role of State Utility Regulators in a Just and Reasonable Energy Transition: Examining Regulatory Approaches to the Economic Impacts of Coal Retirements by evaluating state statutes and regulatory actions on how PUCs can consider economic development in decision-making related to the retirement of coal-fired electric generation plants
  - Provide administrative and logistical support to NARUC Committees on Electricity, Gas, Energy Resources and the Environment, and Regulatory and Industry Diversity
  - Coordinate external communications for NARUC's Center for Partnerships & Innovation, including social media content, newsletters, and web design

- Associate Analyst | Abt Associates** Nov 2017 – Dec 2019  
Rockville, MD
- Analyzed exercise results from the U.S. Environmental Protection Agency (EPA) Office of Emergency Management's (OEM) Response Readiness Evaluation Program and wrote 10 regional reports that summarized response readiness gaps and agency recommendations
  - Analyzed response statistics and personnel surveys from OEM's 2017 and 2018 response efforts to hurricane and wildfire disasters, and developed After Action Reports for EPA
  - Prepared EPA newsletters about state, local, and tribal energy policy news, webinars, and funding opportunities
  - Tracked and programmed state and local clean energy and climate change policies into data visualization dashboards for EPA using Qlik Sense
  - Conducted a needs assessment for the National Oceanic and Atmospheric Administration (NOAA) on future water quality and drought decision support tools
  - Provided compliance support for EPA's Safer Choice program by managing external communications with companies
  - Supported the Agency for Toxic Substances and Disease Registry for the Per- and polyfluoroalkyl substances (PFAS) multi-site research study
  - Reviewed and synthesized public comments from EPA's Toxic Substances Control Act rulemaking dockets

- Intern | The Ocean Project** Oct 2013 – May 2014  
Providence, RI
- Maintained the partner network with aquariums and zoos around the world
  - Developed website and social media outreach communications
  - Assisted in the organization of World Oceans Day in 2014

## **OTHER WORK EXPERIENCE**

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- Bartender | Beuchert's Saloon**, Washington, DC Mar 2019 – Mar 2020  
**Bartender and Barista | The Wydown**, Washington, DC Jul 2018 – Mar 2019  
**Bartender | Arendell Room**, Morehead City, NC May 2017 – Nov 2017

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### PROFESSIONAL SERVICE AND CONSULTATIONS

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**Contributing Author | Procedural Justice Working Group**, Energy Equity Project, University of Michigan 2021 - 2022  
**Member | Energy Equity Research Collaborative**, Energy Equity Project, University of Michigan 2021 - 2022  
**Fellow**, Clean Energy Leadership Institute 2021  
**Reviewer | Justice in 100 Case Studies**, Initiative for Energy Justice, Northeastern University 2021

### TEACHING AND VOLUNTEER EXPERIENCE

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**Volunteer | Black in Environment Week** Jan – Apr 2022  
**Mentor and Educator | Outdoor Leadership Environmental Education Program** Sep 2013 – May 2016  
**Program Coordinator | Outdoor Leadership Environmental Education Program** Sep 2014 – May 2015  
**Teaching Assistant | Brown Department of Earth, Environmental, and Planetary Sciences** Jan – May 2015

### REPORTS

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**The Role of State Utility Regulators in a Just and Reasonable Energy Transition: Examining Regulatory Approaches to the Economic Impacts of Coal Retirements**

National Association of Regulatory Utility Commissioners, September 2021

**Public Utility Commission Stakeholder Engagement: A Decision-Making Framework**

National Association of Regulatory Utility Commissioners, January 2021

### PRESENTATIONS

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**Paleoecological Analysis of Diatoms as Indicators for Environmental Change in Narragansett Bay, Rhode Island**

Mellon Mays Senior Research Presentations, Brown University, 2016

**Addressing the State of Adaptation in Estuaries: A Narragansett Bay Case Study**

Southwest Climate Change Conference, Sacramento, CA, 2015

**Addressing the State of Adaptation in Estuaries: A Narragansett Bay Case Study**

NOAA Science and Education Symposium, Silver Spring, MD, 2015

### HONORS AND AWARDS

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**Chancellor's Fellowship**, University of California, Berkeley 2022  
**Spot Bonus Recognition**, Abt Associates 2018 and 2019  
**Mellon Mays Undergraduate Fellowship**, Brown University 2014 -2016  
**Hollings Undergraduate Scholarship**, National Oceanic and Atmospheric Administration 2014-2016  
**Sigma Xi: Scientific Research Honor Society** 2015-2016

### SKILLS

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ArcGIS  
ENVI  
Excel  
QlikSense  
Japanese – intermediate  
Spanish – basic