

## Marissa Rice

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### Education

#### PhD in Geography

University of Florida

ongoing

#### Master's of Science in Medical Anthropology

University of Edinburgh, Edinburgh, UK

August 2022

- Dissertation with distinction- "The Role of Traditional Ecological Knowledge Regarding Coastal Ecosystems in Climate Change Studies and Indigenous Self-determination"

#### Bachelor of Science in Biology with a minor in Medicine, Literature, and Culture

University of North Carolina at Chapel Hill, Chapel Hill, NC

May 2018

#### UNC College of Arts & Sciences Honor Program Graduate

May 2018

### Employment

#### Senior Research Consultant • Matt Fortnam & Associates, UK

July 2024 – March 2026

Wellbeing indicators for fisheries

- Project in collaboration with the Marine Management Organisation
- Scoping existing relevant data sources with consideration for accessibility, alignment to Fisheries Management Plans, and needs of stakeholders
- Develop and refine data source list aligned with indicators with inclusion of scale, geographic coverage, and potential bias or barriers to use

Understanding the resilience of English fishing communities

- Project in collaboration with Defra, Natural England and the Marine Management Organisation
- Developed conceptual framework for evaluating socio-economic resilience of fishing communities
- Explored, interrogated, and processed datasets for indicators of socio-economic resilience

#### Graduate Research Associate • University of Exeter, UK

October 2022 – June 2025

Local Climate Adaptation Project ([LCAT](#))

- Furthered the development of the innovative Local Climate Adaptation Tool, a tool to support decision-making for local service providers
- Reviewed and collated evidence on the health impacts of climate change and presented this evidence through health impact pathway maps using systems thinking, casual loop diagrams, and the mDPSEEA model
- Supported project management, stakeholder engagement, and codesign of the tool including through the implementation of stakeholder workshops and analyzing stakeholder feedback and needs
- Organized and ran three-day multinational BlueAdapt 2024 Annual Meeting in Newquay, Cornwall including: chairing and presenting in the Early Career Researcher session, conducting the public & hybrid symposium held on day two, and coordinating the agendas and speakers

#### Research Technician • University of Utah, USA

September 2019 – March 2020

Chan Endocrinology Lab

- Developed a project focused on the molecular pathway of glutamate dehydrogenase required in Type 1 diabetes insulin secretion
- Learned numerous new techniques such as hyperinsulinemia-hypoglycemic clamps, micro dialysis brain probe implantation, and vascular catheterizations in rodents
- Managed the day-to-day needs of the lab such as equipment maintenance, colony management, and supply ordering

**Research Technician • University of North Carolina at Chapel Hill, USA**  
Philpot Neuroscience Lab

**January 2016-October 2018**

- Collaborated with other lab members providing assistance for their research projects focused on Rett Syndrome and Angelman Syndrome
- Managed mouse breeding colonies, ran behavioral experiments, maintained tissue culture cell lines, and conducted molecular biology manipulation through the zinc finger nuclease technology
- Carried out duties of lab manager such as ordering supplies, monitoring grant spending, coordinating graduate student visits, and weekly lab meetings

## Undergraduate Research and Teaching Experience

**Dr. Frank Church's Teaching Assistant**

**Spring 2018**

- Assisted Dr. Church with his Biology of Blood Diseases course
- Conducted study sessions, graded assignments, and organized coursework

**Dr. Ralf Schmid's Research Assistant**

**2014 – 2018**

- Molecular biology researcher with a focus on glioblastoma and Rett Syndrome
- Acquired extensive laboratory skills and an understanding of the biomedical research process

## Notable Activities and Accomplishments

**Associate Editor of UNC JOURney**

**2016-2018**

- Served as a founding member of UNC JOURney and an editor for two sections, Health Sciences and Humanities, of the journal
- The first interdisciplinary publication at UNC highlighting faculty mentored research conducted by students across all disciplines

**Mayo Clinic Clinical Research Internship Study Program**

**Summer 2015**

- Developed a database of Dr. Paul Young's patients with muscle invasive bladder cancer treated with radical cystectomy from 2010-2015 with emphasis on patients who did and did not receive neo-adjuvant chemotherapy
- Compiled data allowed for wider comparison of outcomes for patients who did and did not receive neo-adjuvant chemotherapy

## Certifications

**Columbia University Global Consortium on Climate and Health Education**

**Spring 2024**

- Passed European Climate and Health Responders Course

**Biotechnician Assistant Credential**

**May 2014**

- Examination internationally vetted that assesses the skills and knowledge necessary for excellence in industry and academic biotechnology research

## Publications

Rice, M., Dicken, J., Taylor, T., Hobbs, R., Below, C., Walton, A., Barlas, C., Kirby, S., Bland, E., (2025) Visualising cross-sector climate change impacts on health to support local decision-making

Bland, E., Taylor, T., Dicken, J., Mina, P., Rice, M., Walton, A., Hobbs, R., Kirby, S., Guest, F., Lefort, P., (2024) Local Climate Adaptation Tool (LCAT) Supporting adaptation action to improve health and wellbeing. Poster presented at: Research Perspectives on the Health Impacts of Climate Change; February 19, 2024; Brussels, Belgium

Wheeler, B., Lovell, R., Zandersen, M., Garret, J., Guell, C., Fullam, J., Jones, L., Taylor, T., Fletcher, D., Panduro, T.E., Rice, M. (2024) Mixed Method Integration of Evidence and Valuation Findings for ULLs. REGREEN Deliverable D4.5. REGREEN Fostering nature-based solutions for smart, green and healthy urban transitions in Europe and China. Horizon2020 Grant No. 821016. DOI:10.5281/zenodo.10576086