Rebecca Zane **Wolf**

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EDUCATION

Harvard University *Nov. 2022*

Ph.D. in Organismic and Evolutionary Biology *Cambridge, Massachusetts*

- NSF GRFP Honorable Mention, T.H. Ashford Graduate Fellowship, J.M. Pierce Fellowship, and R.A. Chapman Memorial Scholarship.

Georgia Institute of Technology *June 2016*

Bachelors of Science in Applied Physics & Biology *Atlanta, Georgia*

- Wartell & Brossette Scholastic Scholarship, Outstanding Undergraduate Research Award, and H. Fukuyo Outstanding Physics Undergraduate Award

SKILLS

Programming Python, R, HTML, CSS, Javascript, SQL, GraphQL
Visualization d3.js, Tableau, Mapbox, Affinity Designer
Frameworks ReactJS, Gatsby, NextJS
Interests Photography (Wildlife, Climbing), Rock Climbing

SELECTED RESEARCH EXPERIENCE

Harvard University | Soft robotic models of undulatory locomotion *July 2016 - Nov. 2022*

Graduate Research Assistant *Cambridge, Massachusetts*

- Investigated the individual and interactive effects of key control parameters, such as frequency, stiffness, and amplitude, on swimming performance in undulatory locomotion
- Developed and characterized two soft-robotic fish models, the duo- and quad-pneufishes, to emulate undulatory locomotion and serve as an investigative model
- Disseminated work and findings in two peer-reviewed journal publications and a book chapter, all as first author, and various conferences
- Instructed as a teaching assistant in the following courses: Biology of Fishes, How to Build an Animal, Deep Sea Biology, and Sea Monsters Throughout the Ages: Fables, Films, and Facts; awarded three certificates for distinction in teaching

Georgia Tech | Accreting Neutron Star Superburst Simulations *Aug. 2014 - May 2016*

Undergraduate Research Assistant *Atlanta, Georgia*

- Assembled Python scripts utilizing the Xspec package and satellite specifications to model and compare the functionality of multiple satellite telescopes
- Modified Fortran code to utilize updated Suleimanov models and spectra, generating detailed light curves to illuminate the mechanisms underlying superburst radiation profiles
- Disseminated work and findings in a third-author and second-author publication

RELEVANT PROFESSIONAL EXPERIENCE

Ocean Scholars | Full-stack Developer | Cambridge, MA *2021 - Pres.*

- Designed and developed a responsive website using Next.js and Airtable
- Collaborated with other OSAH founders to revise and curate the design aesthetics, components, and function
- Ensured performance, quality, and responsiveness using Lighthouse auditing software

Derek Bok Center for Teaching and Learning | Media & Design Fellow | Cambridge, MA *Jan. 2021 - May 2022*

- Collaborated with SEAS to generate d3.js data visualizations of their faculty and research interests and with an OEB faculty member to generate websites for their class material
- Designed and taught data visualization workshops to Bok staff, fellow MDFs, and undergraduates: Introduction to Mapbox, Sketching Your Data, Introduction to Data Visualization Sessions 1 - 3

Science in the News Short Form Blog | Editor-in-Chief | Cambridge, MA *2018-2020*

- Managed a team of 10-15 writers, coordinating schedules and topics on a monthly basis and mentored two assistant editors
- Assisted writers with their articles by proofreading and suggesting alternatives approaches, explanations, or topics for their monthly articles
- Previously contributed to SITN as a writer and assistant editor (2016-2018)