

Jeffrey Bardwell, Ph.D.

[EMAIL](mailto:jhbardwell@gmail.com) (jhbardwell@gmail.com) | [PORTFOLIO](https://github.io/jhbardwell) (https://github.io/jhbardwell) | [GITHUB](https://github.com/jhbardwell) (https://github.com/jhbardwell)

QUALIFICATIONS

I have nine years' post higher education experience with STEM research, project management, and system design in academic and private sectors—with two years' experience in software development—using R, Python, Markdown, Mermaid, RegEx, C++, HTML5, CSS3, and JavaScript ES6. My background allows me to communicate between binary, biology, and business stakeholders with ease.

RELEVANT EXPERIENCE

Research Scientist: Aptagen, LLC Jacobus, PA 09/2021 – present
NAICS Code 541714: Research and Development in Biotechnology (except Nanobiotechnology)

I created JSON research archival databases and investigated biotechnology AI/ML models and developed a JavaScript DNA sequence sorting algorithm. My efforts to streamline client service business workflows allowed us to more efficiently assess grant opportunities, improve bioinformatics big data sorting time management, and visually conceptualize real-time data.

Data Scientist: White Rabbit Intel, LLC Durham, NC 03/2020 – 08/2020
NAICS Code 518210: Data Processing, Hosting, and Related Services

I refactored existing Python 3.6 spaghetti code into a series of concise functions. I assisted in the development of a modular AWS S3 bucket framework using boto3 and virtualenv libraries. My coding and brainstorming collaborations helped a fledgling startup reimagine our software-as-service business model and keep the product launch date on schedule.

Proposal Coordinator: A Square Group, LLC Frederick, MD 11/2019 – 05/2020
NAICS Code 541611: Admin. Management and General Management Consulting Services

I researched IT and healthcare small business federal contract opportunities, semi-automating project state workflow with Excel macros. I edited Agile proposals and white papers, acted as a stakeholder communications hub, and facilitated scheduling using dynamic Gantt charts. My contributions helped our company submit five proposals and land one long term contract.

Lecturer: Longwood University Farmville, VA 08/2013 – 05/2016
NAICS Code 611310: Colleges, Universities, and Professional Schools

I designed and taught an R-centric course to undergraduate biology and environmental science majors demonstrating experimental design, data sorting, model testing and validation, and graph presentation using these libraries: dplyr, ggplot2, magrittr, and tidyr. Based on pre- and post-semester tests, the course boosted student coding literacy, problem solving, and critical thinking.

Research Assistant: Baylor University Waco, TX 08/2007 – 05/2012
NAICS Code 611310: Colleges, Universities, and Professional Schools

After attending several biostatistics courses, I created a Python 2.7 Tkinter GUI to identify bacteria with Bayes theorem likelihood scores. I also used R 2.15 linear mixed models to remove individual repeat measure data bias. My contributions validated the growing trend of university collaborations among computer science and ecology disciplines seen by the subsequent increase of such courses.