Daniel Harris

Senior-Level College

Doctoral student attending MIT with extensive research experience in biomedical engineering and data science. Develop computational models and machine learning algorithms to drive innovation in medical technology. Use Python to manipulate and analyze complex datasets for research projects.

CONTACT

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✳️ LinkedIn | Portfolio

📇 City, State Abbreviation zip code

EDUCATION

Candidate: Doctor of Philosophy (Ph.D.) Biomedical Engineering
Massachusetts Institute of Technology, Cambridge, MA | May 2025

Bachelor of Science (B.S.) Data Science
University of Illinois at Urbana-Champaign, Urbana, IL | May 2021

KEY SKILLS

- Computational modeling
- Cross-disciplinary collaboration
- Genomic data analysis
- Team leadership
- Machine learning
- Project management

PROFESSIONAL EXPERIENCE

CERTIFICATIONS

- AWS Machine Learning Certified, May 2022
- Certified Data Science Professional, IBM, June 2021

RESEARCH EXPERIENCE

Graduate Research Assistant, Massachusetts Institute of Technology | Cambridge, MA
September 2021

- Lead research projects aimed at developing a computational model to predict the efficacy of targeted cancer therapies
- Implemented machine learning algorithms to analyze large-scale biomedical datasets, which improved prediction accuracy by 20%
- Collaborate with cross-disciplinary research teams on experiments that integrate engineering and biomedical insights
- Assisted in grant writing efforts that secured over $500,000 in funding
- Developed a Python-based toolkit to automate biomedical imaging data

Research Associate, Biogen Solutions | San Francisco, CA
June 2017 – August 2021

- Compiled over 5,000 genomic sequences to find patterns in accelerated drug resistance in bacteria
- Generated comprehensive reports of research findings for stakeholder meetings
- Implemented automated scripts to enhance the efficiency and accuracy of genetic data analysis, reducing processing time by 30%
- Helped senior researchers develop an internal web application designed to streamline genetic data analysis and visualization
- Contributed to a patent application for a bioinformatics algorithm that improved the predictability of bacterial resistance pathways