Daria Dobrolinski

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EDUCATION

Bachelor of Science, Engineering Physics, Minor in Computer Science, University of Massachusetts Boston 01/2024 — 05/2027

- Relevant Coursework: Calculus 1 & 2, Fundamentals of Physics 1 & 2, Introduction to Electrical and Computer Engineering, Introduction to Computer Science.

Bachelor of Science, Pharmaceutical Sciences, University of Rhode Island 09/2023 — 12/2023

- Relevant Coursework: Biology, Chemistry, Calculus 1.

WORK EXPERIENCE

Research Assistant 02/2025
University of Massachusetts Boston *Boston, MA*

- Develop 3D brain reconstruction methods using spherical harmonics to address the partial volume problem and enhance simulation accuracy in tCS applications.
- Utilize MATLAB and mesh processing tools to create precise surface and volume models for improved geometric detail in MRI-based reconstructions.
- Implement advanced algorithms to adjust sulci and gyri widths, aiming to reduce data loss and support more accurate biomedical research.

PROJECTS

Owner, Photo Sharing Web App (Website – Github) 03/2025

- Collaborated to develop and design a photo sharing web app for favorite selection using HTML and CSS for frontend and Python for backend.
- Consequently, users can download the selected favorites within the web socket session.

Owner, Anorexia Awareness Website (Website – Github) 01/2025 — 03/2025

- Designed and developed a responsive and visually engaging informative website using HTML, CSS, and JavaScript.
- Implemented an interactive navigation bar, dynamic text effects, charts, and flip-card flashcards to enhance user experience and readability.

Lead, Automatic Irrigation System (Slideshow) 03/2024 — 05/2024

- Developed an Arduino-based irrigation system using soil moisture sensors and water pumps, reducing manual watering efforts by over 50%.
- Engineered and 3D-printed a protective enclosure in Fusion 360, protecting electronics from environmental damage and prolonging system lifespan.

CERTIFICATES

(23 hours) Python 3 Course — View Certificate

SKILLS

Languages	English (Native), Polish (Fluent), Spanish (Advanced)
Programming Languages	Python, CSS, HTML, Javascript, MATLAB
Technologies	AutoCad, TinkerCAD, Microsoft Office, AutoDesk Fusion 360, Arduino IDE, MacOS

AWARDS

- **Seal of Bi-literacy** — Spanish & Polish 05/2023
- **Dean's List** — Fall 2024 Semester 12/2024