

Connor Onweller

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Education

University of Delaware

Doctor of Philosophy, August 2020 - Present

Area: Computer Science

GPA: 4.00

University of Delaware

Bachelor of Science, Honors Degree, August 2016 - May 2020

Major: Computer Science **Concentration:** Artificial Intelligence **Minor:** Psychology

Major GPA: 3.85 **Cumulative GPA:** 3.76

Dean's List: All Semesters

Languages and Skills

Programming & Scripting Languages: Python, C, C++, HTML, CSS, JavaScript, TypeScript, Lua, Java, Bash, Scheme, SQL

Technical Skills: Git, SVN, PyTorch, OpenCV, React, Angular, Node.js, Express, Vim, Unix environments, Agile Development

Experience

Research Assistant under Dr. Kathleen McCoy

University of Delaware, Newark, DE

August 2020 – Present

Continued work on a project involving the generation of text summaries for line graphs. Work in area of computer vision and natural language processing. Help producing publications on this topic.

Undergraduate Student Researcher under Dr. Kathleen McCoy

University of Delaware, Newark, DE

January 2019 – August 2020

Worked on a project using machine learning and AI techniques to produce text summaries of line graphs, to be used with screen readers to enable visually impaired individuals to understand the intended meaning behind the graph. Integrated cloud based OCR systems to improve system accuracy, evaluated system with human subjects study.

Teaching Assistant Intro to Computer Science

University of Delaware, Newark, DE

February 2018 – December 2018

Tutored, advised, and graded students on introductory computer science material.

Information Technology Intern

Givaudan, East Hanover, NJ

June 2018 – August 2018

Addressed end-user issues involving both software and hardware.

Leadership and Achievements

Co-Founder and Vice President of UD CS + Social Good

September 2018 – June 2020

Facilitated special topics education by leading club workshops on programming topics ranging from introductory web development to agile methodologies. Organized school wide computer science social events and hackathons.

Hatem M. Khalil Memorial Award Recipient

April 2020

Annual award to a University of Delaware computer science undergraduate student in recognition of outstanding achievement in software engineering

Eagle Scout

2010 – 2016

Led a 60-hour service project building benches for a local community garden, involving coordination with local government, fund-raising, and management of those volunteering on the project

Publications

- “Information Graphic Summarization using a Collection of Multimodal Deep Neural Networks”, Edward Kim, Connor Onweller, and Kathleen F. McCoy. *25th International Conference on Pattern Recognition*, January 2021.
- “The Interpretable Dictionary in Sparse Coding” Edward Kim, Connor Onweller, Andrew O’Brien, and Kathleen McCoy. *Explainable Agency in Artificial Intelligence Workshop, XAI Workshop, AAAI 2021*, February 2021.
<https://arxiv.org/abs/2011.11805>