DAVID E CARLYN

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EDUCATION

PhD in Computer Science — **Ohio State University, Columbus, Ohio** — **Expected May 2024**
GPA: 3.8

BS in Computer Science — **Kent State University, Kent, Ohio** — **May 2019**
GPA: 3.9

PROFESSIONAL EXPERIENCE

Lecturer — **Ohio State University, Columbus, Ohio** — **Aug 2021 – Present**
Teaching a class of 40 students on general artificial intelligence topics including agent design, search, logic, dimensionality reduction, unsupervised and supervised learning, gauss-newton, gradient descent, and neural networks.

Teaching Fellow — **Summer Stem Institute, Online** — **Jun 2021 - Aug 2021**
Tutored, mentored, and guided about 300 high school students from around the world on programming in Python, machine learning, and research skills.

Graduate Teaching Assistant — **Ohio State University, Columbus, Ohio** — **Aug 2019 – May 2021**
Instruct weekly labs on Microsoft Excel and Access Database concepts. Manage lab assistants and make-up labs. Provide feedback to assist students with understanding the material. Develop quiz and exam questions.

Graduate Research Assistant — **Ohio State University, Columbus, Ohio** — **May 2020 – Sept 2020**
Assisted in research under the supervision of Dr. Wei-Lun (Harry) Chao in areas of object detection and few-shot learning using machine learning methods. Communicated weekly results clearly and visually.

Software Engineer Intern — **MIM Software, Beachwood, Ohio** — **May 2018 – Aug 2019**
Developed functionality for saving custom-made searches for medical images. Produced an interface for saving and using custom-made toolbars for easier image markup and analysis. Created a process for analyzing the session of a user's operation of the software. Proactively meeting deadlines for bug fixes and project expectations.

RESEARCH EXPERIENCE

Source-Free Domain Adaptation — **Ohio State University, Comp Sci & Engineering Dept** — **Sept 2020 – Present**
Creating domain adaptation techniques given a source model without the source data.

Pancreas Cancer Detection — **Ohio State University, Comp Sci & Engineering Dept** — **Aug 2019 – Sept 2020**
Detect cancerous structures in CLE-n-EUS pancreas images using residual networks and VGG models.

PAPERS

Krishna, S. G., Chao, W. L., Poland, S., Alexander, V., Maloof, T., Dubay, K., ... & Conwell, D. L. (2020, May). *Computer-aided detection of advanced neoplasia in intraductal papillary mucinous neoplasms using confocal laser endomicroscopy*. In GASTROENTEROLOGY (Vol. 158, No. 6, pp. S48-S49). 1600 JOHN F KENNEDY BOULEVARD, STE 1800, PHILADELPHIA, PA 19103-2899 USA: WB SAUNDERS CO-ELSEVIER INC

RELAVENT COURSEWORK

- Machine Learning
- Artificial Intelligence
- Computer Vision
- Algorithms
- Linear Algebra
- Probability Theory

TECHNOLOGY KNOWLEDGE

Languages

- Python
- C++
- Java
- MATLAB/Octave
- JavaScript
- SQL

Libraries

- PyTorch
- OpenCV
- Numpy
- Matplotlib
- SDL