LOGAN FRANK

CONTACT

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Address: 486 Dreese Laboratories, Columbus, Ohio

EDUCATION

Ph.D. in Computer Science and Engineering   August 2019 - Present
Ohio State University   Expected Spring 2026
Advisor: Prof. Jim Davis

M.S. in Computer Science and Engineering   August 2019 - Present
Ohio State University   Expected Spring 2025
Advisor: Prof. Jim Davis

B.S. in Computer Engineering   August 2015 - May 2019
Wright State University
Overall GPA: 3.88/4.00

EXPERIENCE

Ohio State University   August 2019 - Present
Graduate Research Associate   *Columbus, OH*
Advisor: Prof. Jim Davis
Computer Vision Laboratory

GE Aerospace   Incoming May 2025
Computer Vision Research Intern   *Niskayuna, NY*
Mentor: Dr. Paul Ardis
Project: TBD

GE Aerospace   May 2024 - August 2024
Computer Vision Research Intern   *Niskayuna, NY*
Mentor: Dr. Paul Ardis
Project: Multi-Modal Object Re-Identification

Air Force Research Laboratory   May 2023 - August 2023
Graduate Research Intern   *Dayton, OH*
Mentor: Dr. Christopher Liberatore (RYAT)
Project: Exploring Methods for Long-Tailed Image Classification

Air Force Research Laboratory   May 2019 - August 2019
Graduate Research Intern   *Dayton, OH*
Mentor: Mr. Christopher Menart (RYAT)
Project: Utilizing Knowledge Graphs for Explainable Neural Networks

Wright State University   August 2018 - May 2019
Undergraduate Research Assistant   *Dayton, OH*
PI: Dr. Yong Pei
Project: Small Object Detection System for Autonomous Aircraft

Air Force Research Laboratory   May 2018 - August 2018
Undergraduate Research Intern   *Dayton, OH*
Mentor: Ms. Ashley DeMange (RYDR)
Project: Assessing Spiking Neural Network Performance on FPGAs

Marketo, Inc. (Now Adobe)   May 2017 - August 2017
Quality Assurance Intern   *Portland, OR*

RESEARCH INTERESTS	Computer Vision, Machine Learning, Deep Learning, Knowledge Distillation, Learning from Limited Data, Generalization, Robustness, Confidence Calibration

PUBLICATIONS

L. Frank, J. Davis
"What Makes a Good Dataset for Knowledge Distillation?"
arXiv:2411.12817, November 2024

R. Sunderhaft, **L. Frank**, J. Davis
"Deep Learning Improvements for Sparse Spatial Field Reconstruction"
arXiv:2408.1253, August 2024

L. Frank, J. Davis
"Data-Free Knowledge Distillation Using Adversarially Perturbed OpenGL Shader Images"
arXiv:2310.13782, October 2023

J. Davis, **L. Frank**
"Revisiting Batch Norm Initialization"
European Conference on Computer Vision (ECCV), October 2022

L. Frank, C. Wiegman, J. Davis, S. Shearer
"Confidence-Driven Hierarchical Classification of Cultivated Plant Stresses"
IEEE/CVF Winter Conference on Applications of Computer Vision (WACV), January 2021

Z. Daniels, **L. Frank**, C. Menart, M. Raymer, P. Hitzler
"A Framework for Explainable Deep Neural Models Using External Knowledge Graphs"
SPIE Defense and Commercial Sensing, April 2020

INVITED TALKS

Clarifai   October 2024
"Data-Free Knowledge Distillation Using Adversarially Perturbed OpenGL Shader Images"

AWARDS

SMART Scholarship Recipient   April 2019
U.S. Department of Defense

PROFESSIONAL SERVICE

Reviewer
CVPR: 2025, 2024, 2023, 2022
ECCV: 2024, 2022
ICCV: 2023
WACV: 2024

Mentored Students
Robert Sunderhaft (B.S. Data Analytics)   Spring 2023 - Spring 2024
Christopher Cosma (B.S. Computer Science and Engineering)   Spring 2022 - Spring 2023

TEACHING
EXPERIENCE

Ohio State University
Software 1: Components (CSE2221)
Graduate Teaching Associate (Lecturer)
Fall 2019, Spring 2020, Fall 2023, Spring 2024, Fall 2024

"One of the best teachers I have had in my life, not just in college. Knew the content in and out, and taught with a true passion"
 - Anonymous Student 1, Spring 2020

"Overall Logan Frank is one of the best professors I have encountered so far in my college career. He goes out of his way to make the content of the course better, providing additional resources of his own specifically for students, and is willing to help students at all times. He [is] also just very friendly and a nice person"
 - Anonymous Student 2, Spring 2020

"One of the best professors of my college career"
 - Anonymous Student 3, Spring 2020

Wright State University
Circuit Analysis (EE2000)
Undergraduate Teaching Assistant
Spring 2019

Wright State University
Physics II: Electricity and Magnetism (PHY2410)
Undergraduate Teaching Assistant
Fall 2017, Spring 2018, Fall 2018

TECHNICAL
SKILLS

Python, PyTorch, Singularity containers, PBS job scheduler, Slurm job scheduler, Git version control, Bash scripting, Java

OTHER

NCAA Division 1 Athlete - Swimming   August 2015 - June 2017
Wright State University

United States Citizen   June 1997 - Present

UPDATED   November 2024