

# Logan Frank

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EDUCATION    **The Ohio State University** Columbus, Ohio  
                 Ph.D. in Computer Science and Engineering  
                 Advisor: Dr. Jim Davis  
                 August 2019 - Present

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

EXPERIENCE   **Computer Vision Laboratory**, The Ohio State University, Columbus, Ohio  
                 *Graduate Research Associate*  
                 August 2019 - Present  
                 Current Project: Adversarial Machine Learning  
                 Past Project: Computer Vision and Deep Learning in Agriculture

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

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

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

**Marketo, Inc.**, Portland, Oregon  
                 *Quality Assurance Intern*  
                 June 2017 - August 2017

TEACHING	<p><b>Software I: Components</b>, The Ohio State University, Columbus, Ohio  <i>Graduate Teaching Associate</i>  Fall 2019, Spring 2020</p> <p>“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</p> <p>“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 also just very friendly and a nice person.”  -Anonymous Student 2, Spring 2020</p> <p>“One of the best professors of my college career”  -Anonymous Student 3, Spring 2020</p>
	<p><b>Circuit Analysis</b>, Wright State University, Dayton, Ohio  <i>Undergraduate Teaching Assistant</i>  Spring 2019</p> <p><b>Physics II: E &amp; M</b>, Wright State University, Dayton, Ohio  <i>Undergraduate Teaching Assistant</i>  Fall 2017, Spring 2018, Fall 2018</p>
RESEARCH INTERESTS	<p>Computer Vision, Deep Learning, Machine Learning, Robustness  of Neural Networks, Explainability of Neural Networks, Applications  of Computer Vision</p>
PUBLICATIONS	<p><b>L. Frank</b>, C. Wiegman, J. Davis, S. Shearer  “Confidence-Driven Hierarchical Classification of Cultivated Plant Stresses”  IEEE/CVF Winter Conference on Applications of Computer Vision, 2021</p> <p>Z. Daniels, <b>L. Frank</b>, C. Menart, M. Raymer, P. Hitzler  “A Framework for Explainable Deep Neural Models Using External  Knowledge Graphs”  SPIE: Defense and Commercial Sensing, 2020</p>
AWARDS	<p><b>SMART Scholarship Recipient</b>, U.S. Department of Defense  April 2019  Declined</p>
OTHER	<p><b>NCAA Division 1 Athlete - Swimming</b>, Wright State University  August 2015 - June 2017</p>