

# JACOB TYO

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## EDUCATION

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### Carnegie Mellon University

*Doctor of Philosophy in Machine Learning*

May 2023 (Expected)

- Research Interests: Meta-learning, Artificial Intelligence, Conversational ML, Reinforcement Learning

### West Virginia University

*Master of Science in Electrical Engineering*

December 2016 – GPA: 3.85

- Area of Emphasis – Computer Systems (Cybersecurity and Machine Learning)
- Thesis Topic: The Automatic Detection and Classification of Security Vulnerabilities in Issue Tracking Systems

### West Virginia University

*Bachelor of Science in Electrical Engineering*

May 2015 – GPA: 3.64

- Graduated Magna Cum Laude from the honors college

## SELECTED PROFESSIONAL EXPERIENCE

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**U.S. Army Research Laboratory** – Adelphi, MD

Jan 2017 – Present

*Electronics Engineer/Researcher*

**West Virginia University** - Morgantown, WV

March 2016 – December 2016

*Graduate Research Assistant - Advisor: Dr. Katerina Goseva-Popstojanova*

**West Virginia University** - Morgantown, WV

May 2015 – March 2016

*Graduate Research Assistant - Advisor: Dr. Roy Nutter*

**WVU LCSEE SYSTEMS** – Morgantown, WV

March 2015 – May 2015

*System Technician*

**Duke Energy** – York, SC

Summer 2014

*Electrical Engineer Intern*

**WVU Department of Biochemistry** – Morgantown, WV

October 2013 – May 2014

*Research Intern*

**Taggart Global** – Elkview, WV

Summer 2011 & Summer 2012

*Electrical Engineer Intern*

## TEACHING EXPERIENCE

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**Data Analysis Course** – Teaching Assistant for Dr. Leila Wehbe at CMU

August 2019 - December 2019

## SELECTED PROFESSIONAL AFFILIATIONS

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Vice-President of Cyber WVU

May 2015 - March 2016

Served as President and Recording Secretary of IEEE Honors Society Eta Kappa Nu

April 2014 – April 2016

Treasurer of WVU Climbing Club

May 2013 – May 2014

Member of the Institute of Electrical and Electronics Engineers (IEEE)

January 2012 – Present

## SELECTED PUBLICATIONS

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Benjamin Eysenbach\*, Jacob Tyo\*, Shane Gu, Ruslan Salakhutdinov, Zachary Lipton, Sergey Levine, "Reinforcement Learning with Unknown Reward Functions," ICLR 2019 Workshop on Structures and Priors in Reinforcement Learning and Workshop on Task-Agnostic Reinforcement Learning

Jacob P. Tyo, William R. Hughes, "Evaluation of OSUS at TTCP CUE 2017," Proc. SPIE 10635, Ground/Air Multisensor Interoperability, Integration, and Networking for Persistent ISR IX, 106350T (4 May 2018);

Katerina Goseva-Popstojanova, Jacob Tyo, "Experience Report: Security Vulnerability Profiles of Mission Critical Software: Empirical Analysis of Security Related Bug Reports", 2017 IEEE 28th International Symposium on Software Reliability Engineering (ISSRE), pp. 152-163, 2017, doi:10.1109/ISSRE.2017.42