

JACOB TYO

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EDUCATION

Carnegie Mellon University

Doctor of Philosophy in Machine Learning

December 2023 (Expected)

- Research Interests: Meta-learning, Reinforcement Learning, Natural Language Processing

Carnegie Mellon University

Master of Science in Machine Learning Research

May 2021

- Research Areas: Reinforcement Learning, Natural Language Processing

West Virginia University

Master of Science and Bachelor of Science in Electrical Engineering

December 2016

- Graduated Magna Cum Laude from the honors college
- Area of Emphasis – Computer Systems (Cybersecurity and Machine Learning)
- Thesis Topic: The Automatic Detection and Classification of Security Vulnerabilities in Issue Tracking Systems

SELECTED PROFESSIONAL EXPERIENCE

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

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

August 2019 - December 2019

Deep Learning Systems – CMU – Teaching Assistant for Dr. Zico Kolter and Dr. Tianqi Chen

August 2021 - December 2021

SELECTED PUBLICATIONS

Tyo, Jacob, Bhuwan Dhingra, and Zachary Lipton. "On the State of the Art in Authorship Attribution and Authorship Verification." arXiv preprint arXiv:2209.06869 (2022). (<https://arxiv.org/abs/2209.06869>)

Tyo, Jacob, Bhuwan Dhingra, and Zachary Lipton. "Siamese Bert for authorship verification." CLEF. 2021. (<http://ceur-ws.org/Vol-2936/paper-193.pdf>)

Tyo, Jacob, and Zachary Lipton. "How Transferable are the Representations Learned by Deep Q Agents?." arXiv preprint arXiv:2002.10021 (2020). (<https://arxiv.org/pdf/2002.10021>)

Benjamin Eysenbach*, Jacob Tyo*, Shane Gu, Ruslan Salakhutdinov, Zachary Lipton, Sergey Levine, "Reinforcement Learning with Unknown Reward Functions," ICLR 2019 SPiRL and TARL (<https://tarl2019.github.io/assets/papers/eysenbach2019reinforcement.pdf>)

Goseva-Popstojanova, Katerina, and Jacob Tyo. "Identification of security related bug reports via text mining using supervised and unsupervised classification." 2018 IEEE International Conference on Software Quality, Reliability and Security (QRS). IEEE, 2018. (<https://ntrs.nasa.gov/archive/nasa/casi.ntrs.nasa.gov/20180004739.pdf>)