



Bryon Kucharski

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Education

Master of Science in Computer Science, *University of Massachusetts Amherst*, Exp. May 2020 GPA: 3.78/4.00
Bachelor of Science in Computer Engineering, *Wentworth Institute of Technology*, 2018 GPA: 3.84/4.00

Professional Experience

Intern, Human-Autonomy Interaction Laboratory, Sonalysts, Waterford, CT Summer 2019

- Researched machine learning and ensemble methods for authorship attribution for use in DoD contracts
- Formulated the pipeline and collected/cleaned datasets for time series forecasting of satellite signal strength based on terrestrial and space weather

Test Development Engineering Co-op, Teradyne, North Reading, MA 2017 Full Time, 2018 Part Time

- Enhanced a statistical process control (SPC) tool by reducing the time to create plots (Part Time)
- Developed a C# and C++ API and a GUI for controlling and a Universal Robots robotic arm (Full Time)

Research Assistant Co-op, Wentworth Institute of Technology, Boston, MA Fall 2017

Supervisors: Dr. Aaron Carpenter, Dr. Mehmet Ergezer

- Contributed to three research projects which resulted in three papers accepted to ASEE National Conference and one poster accepted to SIGCSE

Electrical Engineering Intern, Gerber Technology, Tolland, CT Summer 2016

- Renovated an existing circuit board test fixture by reconstructing cable sets and enhancing test software
- Implemented two Google Apps Script ticketing systems to manage deviations in the manufacturing process

Skills

Languages Python, C#, C++, Java, ARM Instruction Set, Verilog
Tools PyTorch, Keras, numpy, Sklearn, Unix/Linux, Microsoft Visual Studio, Unity

Publications

- 2019 *Multi-resolution Attention with Signal Splitting for Multivariate Time Series Classification*. **Bryon Kucharski**, Rheeja Uppaal, Bhanu Singh, Iman Deznabi and Madalina Fiterau. ICML Time Series Workshop.
- 2019 *Multi-resolution Networks For Flexible Irregular Time Series Modeling*. Bhanu Singh, Iman Deznabi, Bharath Narasimhan, **Bryon Kucharski**, Rheeja Uppaal, Akhila Josyula, and Madalina Fiterau. arXiv preprint.
- 2019 *Machine Learning Based Heuristic Search Algorithms to Solve Birds of a Feather Card Game*. **Bryon Kucharski**, Azad Deihim, and Mehmet Ergezer. EAAI19.
- 2018 *Real-World Projectile Catching with Reinforcement Learning: Empirical Analysis using Discretized Simulations*. **Bryon Kucharski**, Adam Ziel, Michael Hickey, and Collin Travers. MIT URTC.
- 2018 *Designing laboratory work for a novel embedded AI course*. **Bryon Kucharski**, Aaron Carpenter, and Mehmet Ergezer. ASEE National Conference.
- 2018 *Is a Virtual Reality Based Laboratory Experience a Viable Alternative to the Real Thing?* Mohammed Almaghrabi, **Bryon Kucharski**, and James McCusker. ASEE National Conference.
- 2018 *The Undergraduate Perspective: How to Survive an Undergraduate Engineering Program*. **Bryon Kucharski**, Aaron Carpenter, Mehmet Ergezer, and Joan Giblin. ASEE National Conference.
- 2018 *Integration of Universal Robot into Performance Verification (PV) Test Process*. Jianrong Chen, Everett Parhiala, Mike Herzog, and **Bryon Kucharski**. Teradyne User Group (TUG) Conference.

Awards and Activities

- 2018 President's Award for Computer Engineering
2014-2018 **Senior Captain**, Wentworth Institute of Technology Baseball
2014-2018 Dean's List
2016-2018 Spring Academic All-Commonwealth Coast Conference