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, pandas, scikit, Unix/Linux, Microsoft Visual Studio, Unity

Publications

2019	*Multi-resolution Attention with Signal Splitting for Multivariate Time Series Classification.* **Bryon Kucharski**, Rheeya 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**, Rheeya 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