LANDON BUTLER

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EDUCATION

University of Pennsylvania, School of Engineering & Applied Science — Philadelphia, PA
Candidate for Master of Science in Engineering — **May 2022**
Accelerated Master's Program: **Data Science** — GPA: 4.00/4.00

Candidate for Bachelor of Science in Engineering — **May 2022**
Major: **System Science & Engineering** — GPA: 3.97/4.00
Concentration: Artificial Intelligence & Data Science
Minors: Computer Science, Mathematics, Statistics

RESEARCH

Victor Preciado's Research Group — **May 2021 – Present**
Undergraduate Research Assistant

- Developing novel weakly-supervised anomaly detection techniques for data situated on a hypergraph
- Applying techniques to thwart against the spread of misinformation on Twitter

Alelab – Machine Learning on Network Data — **Jan 2020 – Present**
Undergraduate Research Assistant

- Investigated collaborative learning policies for robot teams that exploit the underlying graphical structure
- Leveraged Graph Neural Networks to train multi-agent systems through Reinforcement Learning

Interests: Network Science, Machine Learning, Data Science, Social Networks

PUBLICATIONS

1. E. Tolstaya*, **L. Butler***, D. Mox, J. Paulos, V. Kumar, and A. Ribeiro, "Learning Connectivity for Data Distribution in Robot Teams". arXiv preprint arXiv:2103.05091 (2021)

TEACHING

ESE 542 - Statistics for Data Science — **Spring 2021, Summer 2021**
Teaching Assistant / Head Teaching Assistant

- Graduate course in Penn's MCIT Online program where students are taught a broad range of statistical and computational tools to identify and implement appropriate modeling and analysis techniques in order to extract meaningful information from large datasets

ACTIVITIES

Penn Data Science Group – TWC Project Team Member — **Aug 2020 – Present**

- Partnering with Together We Can to analyze data and build predictive models in order to offer recommendations on how to best address food insecurity in the greater Philadelphia area

Penn Band – Percussionist, Fanfare Honor Society Member — **Aug 2018 – Present**

- Performances at an assortment of student activities, including all football and basketball games

HONORS & AWARDS

Wolf Family Award In Systems Engineering

- Presented to the senior student in Systems Engineering who has demonstrated the best overall academic performance during their studies at the University

Littlejohn Fellowship

- Summer funding awarded to six undergraduates in the School of Engineering & Applied Sciences to pursue research under the supervision of a faculty member

Eagle Scout

- Achieved Boy Scout's highest achievement after being involved in scouting for ten years

INDUSTRY EXPERIENCE

Strivr Bellevue, WA
Software Engineering Intern - Remote **Summer 2020**

- Developed encryption architecture for end-to-end protection of the telemetry data generated from a trainee's session. Deployed to over 20,000 virtual reality headsets
- Bolstered Strivr's security capabilities promoting acquisition of data-sensitive customers

Kiewit Lenexa, KS
Electrical Engineering Intern **Summer 2019**

- Orchestrated cable separation study and built simulation tool to analyze the effects of electromagnetic interference within dense circuit runs
- Used to prevent electrical faults, each costing tens of thousands of dollars in lost production

Lead Intern – Electrical Engineering **Summers 2016, 2017, 2018**

- Designed 721 power and instrumentation circuits across seven power generation projects
- Served as the point of contact for TVA Allen Fossil Plant and TVA Paradise Combined Cycle Plant to address in-office engineering design discrepancies
- Maintained circuit design efficiency expected of a 3-5 year engineer

SKILLS

Languages: Python, R, Java, C#, SQL, MATLAB
Technologies: PyTorch, Tensorflow, Keras, Spark, AWS, Pandas, Django