

William Power

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EDUCATION

Temple University <i>PhD Candidate in AI/ML</i>	Philadelphia, PA 2017 – Current
Temple University <i>M.S. in Computer Science</i>	Philadelphia, PA 2015 – 2017
University of Delaware <i>B.S. in Mechanical Engineering</i>	Newark, DE 2005 – 2010

EXPERIENCE

Teaching and Research Assistant <i>Temple University</i>	2016 – Current Philadelphia, PA
<ul style="list-style-type: none">• Courses: Program Design & Abstraction, Data Structures, Low-Level Programming• Created and maintained research datasets with MySQL and Python-based automation.• Managed continuous data collection from online sources like Reddit and X using Python, Javascript, and MySQL.	
Data Director <i>Melissa Cerrato for State Representative</i>	May 2022 – Nov 2022 Horsham, PA
<ul style="list-style-type: none">• Provided estimates and visuals to support the successful flipping of PA House District 151.• Performed precinct-level modeling over recently-redrawn electoral maps (documented here).	
PHP Developer <i>PPCITraining.com</i>	2014 – 2010 Spring Mount, PA
<ul style="list-style-type: none">• Created tools for instructors to manage class rosters and automatically generate bulk PDF certificates• Created infrastructure to store and render validation QR codes for class certificates.	
Computation & Simulation Intern <i>NASA Jet Propulsion Laboratory</i>	June 2017 – Aug 2017 Pasadena, CA
<ul style="list-style-type: none">• Implemented a structure fire simulation for an AGI testbed system• Used JS/HTML to render cellular-automata based simulation of fire, structures, and agents.	

PUBLICATIONS

Summarizing Online Discussions with Prototype Relation Networks <i>International Conf. on Artificial Intelligence Applications and Innovations (Under Review)</i>	Power, W., et. al. June 2025
Generating Profiles of News Commentators with Language Models <i>International Conf. on Artificial Intelligence Applications and Innovations</i>	Power, W., Obradovic, Z. June 2024
Understanding Online Attitudes with Pre-Trained Language Models <i>International Workshop on Mining and Analyzing Social Networks for Decision Support</i>	Power, W., Obradovic, Z. Nov 2023
Autonomous Navigation for Drone Swarms in GPS-denied Environments. <i>International Conf. on Artificial Intelligence Applications and Innovations.</i>	Power, W., et. al. June 2020

PROJECTS

Portfolio Website <i>Javascript, HTML</i>	2015 – Current
<ul style="list-style-type: none">• Custom built site that contains links to additional projects and personal information.• Demonstration projects include an interactive traffic simulation, physics simulation, and an 8-bit computer.	
COVID-19-USSTN <i>Python, MySQL</i>	2021
<ul style="list-style-type: none">• Gathered COVID-19 related demographic data and constructed a county-level spatio-temporal graph dataset.• Aggregated data from US Census information, and public health and mobility datasets.• Contains spatial adjacency links between counties, and temporal links between daily representations of each county.	