

# William Power

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## EDUCATION

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

## EXPERIENCE

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<b>Teaching and Research Assistant</b> <i>Temple University</i>	Sept 2017 – Current <i>Philadelphia, PA</i>
<ul style="list-style-type: none"><li>Created and maintained NLP research datasets with MySQL and Python-based automation. Published research contributions based on these products.</li><li>Managed continuous data collection from online sources like Reddit and X using Python, Javascript, and MySQL.</li><li>Assisted with courses: Program Design &amp; Abstraction, Data Structures, Low-Level Programming</li></ul>	
<b>Data Director</b> <i>Melissa Cerrato for State Representative</i>	May 2022 – Nov 2022 <i>Horsham, PA</i>
<ul style="list-style-type: none"><li>Provided estimates and visuals to support the successful flipping of PA House District 151.</li><li>Performed precinct-level modeling over recently-redrawn electoral maps (documented <a href="#">here</a>).</li></ul>	
<b>PHP Developer</b> <i>PPCITraining.com</i>	Nov 2014 – June 2020 <i>Spring Mount, PA</i>
<ul style="list-style-type: none"><li>Created tools for instructors to manage class rosters and automatically generate bulk PDF certificates</li><li>Created infrastructure to store and render validation QR codes for class certificates.</li></ul>	
<b>Computation &amp; Simulation Intern</b> <i>NASA Jet Propulsion Laboratory</i>	June 2017 – Aug 2017 <i>Pasadena, CA</i>
<ul style="list-style-type: none"><li>Implemented a structure fire simulation for an AGI testbed system</li><li>Used JS/HTML to render cellular-automata based simulation of fire, structures, and agents.</li></ul>	
<b>Site Support Engineer</b> <i>NAVAIR JB MDL</i>	Oct 2010 – Oct 2015 <i>Lakehurst, NJ</i>
<ul style="list-style-type: none"><li>Calculated, simulated, and verified the mechanical, electrical, and storage needs for aircraft support areas.</li><li>Automated the drafting of sufficient storage solutions by programmatically reading inventory lists and generating sketches with AutoCAD.</li></ul>	

## PUBLICATIONS

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