

## EDUCATION

- **Indiana University Bloomington** Bloomington, IN  
*Ph.D. - Informatics (Complex Networks & Systems track)* August 2023 -
- **Rensselaer Polytechnic Institute** Troy, NY  
*B.S. - Computer Science (3.71 GPA)* August 2019 - May 2023

## PUBLICATIONS

- **Analyzing Trendy Twitter Hashtags in the 2022 French Election**  
*Mandviwalla A., Yin L., and Szymanski B.*  
Twelfth International Conference on Complex Networks & Their Applications
- **Simulating Online Social Response: A Stimulus/Response Perspective**  
*Shao et al. (including Lake Yin)*  
Proceedings of the 2021 Winter Simulation Conference

## RESEARCH EXPERIENCE

- **Networks and Agents Network Group (IUB)** Bloomington, IN  
*Research Assistant* August, 2023
- **MIT Lincoln Laboratory** Lexington, MA  
*Summer Research Intern* May 2023 - August 2023
  - Continued project on the use of deep learning for the registration of inverse synthetic aperture images.
  - Assisted in launching a project on the use of machine learning for the detection of PSYOPS campaigns.
- **Network Science and Technology Center (RPI)** Troy, NY  
*Undergraduate Research Assistant* Jan 2021 - May 2023
  - Collaborated on a project for the DARPA SocialSim challenge to model and simulate social networks under external stimuli.
  - Collaborated on a project for the DARPA INCAS program to examine how users' political "genotypes" evolve over time in a social network.
- **MIT Lincoln Laboratory** Lexington, MA  
*Summer Research Intern* May 2022 - August 2022
  - Led a project with Group 41 exploring the use of deep learning techniques for the registration of inverse synthetic aperture images.
- **Gao Lab (RPI)** Remote  
*Undergraduate Research Assistant* August 2020 - December 2020
  - Developed a research project to understand and analyze how browsing habits can result in echo chambers in regards to political recommendations.

## INDUSTRY EXPERIENCE

- **Liberty Mutual Technology** Remote  
*Software Engineering Intern* May 2021 - August 2021
  - Contributed development to multiple Agile sprints and debugged backend GraphQL and PostgreSQL systems.
  - Conducted performance and runtime evaluations for Apollo Server and AWS Lambda systems for database migration from server to serverless.
  - Analyzed and identified areas of cloud cost reduction.

## HONORS AND AWARDS

- **Dean's Honor List (RPI)** Multiple Semesters
- **Upsilon Pi Epsilon** November 2020

## LEADERSHIP

- **HackRPI Organizing Team** 2019 - 2023  
*Director of Sponsorship* 2020 - 2023

## RELEVANT SKILLS

- **Programming Languages** - Python, Java, C/C++, MATLAB, Javascript, SQL
- **Tools** - Numpy, Pandas, Scikit-Learn, NetworkX, TensorFlow, PyTorch, OpenCV, Selenium, Git, Slurm