

Lake Yin

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978-221-0789

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 (*In review*)
- **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