

Yang Gao

1275 E. 10th St, Bloomington, IN 47405

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Website: <https://yancygh.github.io>

Last CV Update: Nov 13, 2023

ACADEMIC EMPLOYMENT AND POSITIONS

Ph.D. Student	Operations and Decision Technologies, Kelley School of Business	Indiana University	August 2022 - May 2027 (Expected)
Research Associate	Kelley's Data Science and Artificial Intelligence Lab (DSAIL)	Indiana University	April 2023 - May 2027 (Expected)

EDUCATION

Doctor of Philosophy (Ph.D.)	Major: Information Systems	Indiana University	August 2022 - May 2027 (Expected)
Master of Science (M.S.)	Major: Business Analytics	Fordham University	August 2017 - February 2019
Bachelor of Management (B.Mgt)	Major: Management Science	Fudan University	September 2013 - June 2017

RESEARCH INTERESTS

- Applications:**
Cybersecurity - Phishing Websites Detectors Evasion
- Methods:**
Deep learning - Adversarial Learning, Deep Reinforcement Learning

JOURNAL PUBLICATIONS

- Yang Gao**, Benjamin M. Ampel, Sagar Samtani, "Evading Anti-Phishing Models: A Field Note Documenting an Experience in the Machine Learning Security Evasion Competition 2022", *DTRAP Special Issue Applied Machine Learning for Information Security*

WORK-IN-PROGRESS JOURNAL PAPERS

- Yang Gao** and Sagar Samtani "Generating Adversarial Phishing Websites to Evade Machine Learning-based Anti-Phishing Detectors: A Reinforcement Learning Approach"

CONFERENCE PROCEEDINGS

- Benjamin M. Ampel, **Yang Gao**, James Hu, Sagar Samtani, Hsinchun Chen, "Benchmarking the Robustness of Phishing Email Detection Systems", *Americas Conference on Information Systems (AMCIS), 2023*

REFEREED WORKSHOP PAPERS (No Proceedings)

- Yang Gao**, Sagar Samtani, Hongyi Zhu, Benjamin M. Ampel and Yidong Chai "Generating Adversarial Phishing Websites to Evade Machine Learning-based Anti-Phishing Detectors: A Reinforcement Learning Approach" *INFORMS 7th Workshop on Data Science, 2023*
- Yilu Zhou, Hao Sun, **Yang Gao**, "Protecting Children from Inappropriate Mobile Apps: A Text and Image Deep Learning Approach", *INFORMS 2nd Workshop on Data Science, 2018*

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PROFESSIONAL SERVICE

1. Website Editor, Journal of Management Information Systems (JMIS), September 2023 - Present
2. Website Editor, Kelley's Data Science and Artificial Intelligence Lab (DSAIL), September 2023 - Present
3. Website Editor and Volunteer, The Conference on Applied Machine Learning in Information Security (CAMLIS), June 2023 - Present
4. Website Editor, The 3rd Workshop on Artificial Intelligence-Enabled Cybersecurity Analytics, March - August 2023
5. Volunteer, Conference on Information Systems and Technology (CIST), 2022. Indianapolis, Indiana.
6. Volunteer, The 6th INFORMS Workshop on Data Science (WDS), 2022. Indianapolis, Indiana.

TEACHING EXPERIENCE

Role	Course	Method	# of Sections	# of Students	Institution	Semester	***Overall Teaching Effectiveness
GTA	Web Analytics	In-Person	3	105	Fordham U.	Fall 2018	-
GTA	Machine Learning and Text Mining	In-Person	1	6	Fordham U.	Spring 2019	-

PROFESSIONAL AFFILIATIONS AND SOCIETIES

1. Association for Information Systems (AIS), Member
2. Association for Computing Machinery (ACM), Member
3. Institute of Electrical and Electronics Engineers (IEEE), Member
4. Institute for Operations Research and the Management Sciences (INFORMS), Member

RELEVANT TECHNOLOGY SKILLS

1. **Databases:** SQL
2. **Programming Languages:** C, Python
3. **Visualization tools:** Tableau, Gephi
4. **Data mining tools:** SPSS Modeler, WEKA, scikit-learn
5. **Major deep learning toolkits:** PyTorch, Keras, Tensorflow, Gymnasium

WORK EXPERIENCE

Ehomie New York Inc.

Texas Associate Manager & Business Analyst

February 2019 –
February 2022