

RESEARCH INTERESTS

Adversarial Attack & Defense; Web Security & Phishing Detection; LLM Security

EDUCATION

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- **University of Tennessee, Knoxville** Knoxville, Tennessee, USA
Fourth Year Ph.D. student majoring in Computer Science Aug. 2022 - Present
 - **Coursework:** Computer Systems Organization, Algorithms, Advanced Software Engineering, Deep Learning
 - **Teaching Assistant:** Discrete Mathematics
 - **Shandong University of Science and Technology (SDUST)** Qingdao, China
Master of Computer Software and Engineering Sept. 2018 - June 2021
 - **Coursework:** Applied Statistics, Distributed Systems, Advanced Computer Architecture
 - **Teaching Assistant:** Discrete Mathematics

EXPERIENCE

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- **Research Assistant — Phishing Website Detection and Defense** Knoxville, USA
College of EECS, UTK, directed by Dr. Doowon Kim Aug. 2022 - Present
 - Conducted a comprehensive measurement study of the performance of visual-based anti-phishing traditional models.
 - Investigated the performance of LLM-based detection models.
 - Investigated the characteristics of LLM-based phishing generation models.
 - **Research Intern — Chinese Address Parsing Project** Beijing, China
Baidu Map, directed by Dr. Yibo Sun and Dr. Lei Shao June 2021 - Jan. 2022
 - Extracted and structured address data in the format of province, city, district, town, and point of interest;
 - Recognized the named entity through a biaffine attention mechanism based on the pre-trained model ERNIE 1.0 under the framework of PaddlePaddle and improved the performance via post-processing processes;
 - Evaluated the performance of point of interest chunks, where the F1 score is 81.25% for 1,000 real-world data from Baidu Map and 80.41% for 2,985 public data from Chinese Address Corpus.
 - **Research Assistant — Heterogeneous Networks Analysis** Qingdao, China
College of Computer Science and Engineering, SDUST, directed by Prof. Zhongying Zhao Sept. 2018 - June 2019
 - Conducted literature reviews on the work related to heterogeneous networks;
 - Made a comparative study on heterogeneous networks and classified them into four categories according to topological and attribute information.

PROJECTS

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- **Evaluating the effectiveness and robustness of visual-based anti-phishing models** Knoxville, US
Research project with Dr. Doowon Kim, UTK Aug. 2022 - Dec. 2024
 - Collected 451k real-world phishing websites from APWG;
 - Evaluated the performance of visual-based anti-phishing models in a large-scale real-world dataset and found the causes of failures for different models;
 - Constructed a small dataset using various manipulations identified in the collected data to assess model robustness under coarse-grained and fine-grained settings.
 - **Evaluating LLMs-based anti-phishing models** Knoxville, US
Research project with Dr. Doowon Kim, UTK Nov. 2024 - Jun. 2025
 - Investigated the inherent knowledge and reasoning capabilities of LLMs in detecting phishing websites
 - Investigated whether LLM-based phishing detectors outperform traditional deep learning models
 - Investigated the impact of individual and combined components (e.g., screenshots, logos, HTML, and URLs) on LLM-based phishing detection;

PUBLICATIONS AND MANUSCRIPTS

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- **Fujiao Ji** and Doowon Kim. Anonymous. Under review (2026).
 - **Fujiao Ji**, Hyungjoon Koo, Wenhao You, Euijin Choo, Hyoungshick Kim, and Doowon Kim. Evaluating the Effectiveness and Robustness of Visual Similarity-based Phishing Detection Models. USENIX (2025).
 - Kyungchan Lim, Kiho Lee, **Fujiao Ji**, Yonghwi Kwon, Hyoungshick Kim, Doowon Kim. What's in Phishers: A Longitudinal Study of Security Configurations in Phishing Websites and Kits. The Web Conference (2025).
 - **Fujiao Ji**, Zhao, Z., Zhou, H, Chi, H. A Comparative Study on Heterogeneous Information Network Embeddings. Journal of Intelligent & Fuzzy Systems (2020).
 - Zhongying Zhao, Hui Zhou, Bijun Zhang, **Fujiao Ji**, Chao Li. Identifying high influential users in social media by analyzing users' behaviors. Journal of Intelligent & Fuzzy Systems (2019).

SKILLS

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- **Programming:** Python
 - **Frameworks:** Pytorch, PaddlePaddle
 - **Tools:** LaTeX, iCoding, Visual Studio Code, Jupyter, Adobe Photoshop, Microsoft Visio, AxMath