Kieu Dang

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RESEARCH INTERESTS

Trustworthy AI, with a focus on privacy, security, and robustness in LLMs. My work explores adversarial robustness, differential privacy, and watermarking to ensure reliable and ethical deployment of LLMs in real-world applications.

EDUCATION

State University of New York at Albany (SUNY Albany), NY, USA.

Aug 2024 - Present

PhD Student in Information Science.

Cumulative GPA: 4.00/4.00

Research topics: Trustworthy Machine Learning/AI through the Lens of Privacy and Security.

Northeastern University, MA, USA.

Aug 2021 – July 2023

Master in Analytics, Applied Machine Intelligence.

Cumulative GPA: 4.00/4.00

Thesis: Improving Safety through the Integration of Multi-sensor Fusion and Deep learning-based Object Detection.

PUBLICATIONS

- Kieu Dang, Phung Lai, NhatHai Phan, Yelong Shen, Ruoming Jin, Abdallah Khreishah. δ -Steal: LLM Stealing Attack with Local Differential Privacy. In Proceedings of Asian Conference on Machine Learning (ACML 2025).
- Dylan Tarace, Phung Lai, Kieu Dang, Unal Tatar. AI-Powered Assessment of Wazuh for Obfuscated Threat Detection. In Proceedings of the IEEE Systems and Information Engineering Design Symposium (SIEDS 2025).
- Kieu Dang, Phung Lai. Navigating Trustworthiness in LLMs: An Examination of Privacy, Security, and Robustness. In Proceedings of Computational Data and Social Networks (CSoNet 2024).

Forthcoming

- Kieu Dang, Phung Lai, NhatHai Phan, Yelong Shen, Ruoming Jin. A watermark paper. In ACM Conference on Computer and Communications Security (CCS 2025) - Under review.
- Kieu Dang, Phung Lai, NhatHai Phan, Yelong Shen, Ruoming Jin, Abdallah Khreishah, My Thai. SoK: Are Watermarks in LLMs Ready for Deployment? In IEEE Symposium on Security and Privacy (S&P 2025) - Under review.

PATENTS

• Kieu Dang, Phung Lai, NhatHai Phan. A Watermark Technique. Non-provisional US patent accepted on October 8, 2025.

RESEARCH EXPERIENCE

Responsible AI Lab - SUNY Albany, NY, USA.

Jan 2024 - Present

- Research Assistant
 - Cooperate with Microsoft, New Jersey Institute of Technology, University of Florida, Kent State University, Qatar Computing Research Institute to prove theories, implement, and conduct experiments for Trustworthiness in AI.
 - Design and evaluate strategies that strengthen LLMs against model stealing, incorporating watermarking and privacypreserving techniques.

TEACHING & STUDENT MENTORSHIP EXPERIENCE

SUNY Albany, NY, USA

Jan 2025 - Present

Teaching Assistant and Student Mentor

- Teaching Assistant for CYBR-422: Trustworthy AI: conducting labs, grading, and providing student support.
- Mentor for undergraduate interns on multiple research projects, including LLM watermarking, human-based evaluation system, and public leaderboard, Transforming LLM Alignment: Automating Reference Data Generation through Explainable AI, and Powered Assessment of Wazuh for Obfuscated Threat Detection.
- Served as Chancellor's Summer Research Excellence Mentor, supervising six undergraduate interns across AI security projects: on LLM watermarking, human-based evaluation system, and public leaderboard.

Northeastern University, ON, Canada.

Aug 2021 - Dec 2021

Teaching Assistant: ALY-6010: Introduction to Statistics and Probability: Provided tutoring support and evaluated student performance through discussion grading.

PROFESSIONAL EXPERIENCE

A Medium Corporation, CA, USA.

Nov 2022 - Present

Machine Learning Content Engineer (Freelancer - Partner Program)

Translate complex machine learning topics, especially in NLP, into accessible and insightful content for a diverse audience.

Hitachi Vantara Corporation, CA, USA. Senior Data Scientist (Remote Full Time)

Oct 2023 - May 2024

- Spearheaded NLP initiatives to enhance financial document analysis, improving entity recognition and sentiment ex
 - traction models by 18%, leading to faster client reporting workflows.
 - Collaborated with a cross-functional team of 6 engineers and domain experts to deploy deep learning models on healthcare and manufacturing text datasets, achieving a 12% uplift in operational prediction accuracy.
 - \bullet Built and validated causal language modeling pipelines for retail demand forecasting, reducing supply chain prediction errors by 15% across 3 major client projects.

Definity Financial, ON, Canada.

Jan 2023 – May 2023

Data Scientist and Modeling (Co-op)

- Prepared image, text, and tabular data on car accidents for predictive modeling.
- Built and deployed four models for underwriting, actuary, and claims with reproducible pipelines.

Alibaba Group - Lazada E-commerce, HCMC, Vietnam.

Sep 2020 - Aug 2021

Senior Manager, Category Management

- Collaborated with the Data Science team to evaluate search exposure and sales drivers (e.g., free shipping, vouchers) using text mining and A/B testing techniques.
- Conducted hypothesis-driven ad-hoc analysis to address business-critical operational queries.

HONORS & AWARDS

• CEAIS Seed Grant Award (Co-Investigator), IBM Center for Emerging Artificial Intelligence Systems.	Nov 2025
• IP Protection Invention Award, College of Emergency Preparedness and Homeland Security.	Oct 2025
• Travel Fund Award (\$1000) from Research Foundation, SUNY Albany.	Oct 2025
• Second Prize, Best Poster: A LDP Watermark with Guaranteed Utility for LLMs at NTIR 2025.	$\mathrm{Apr}\ 2025$
• Valedictorian, Master in Analytics – Fall 2021 Cohort, Northeastern University.	Jul 2023
• Hackathon Winner – OCR and Language Model for Form Autofill, Definity Financial.	Feb 2023
• Top 20 Finalist – VinUniversity Global Case Competition (VGCC), VinUniversity.	Dec 2021
• Merit-based Scholarship, Foreign Trade University.	2013 & 2014
• Talent Incubation Scholarship (Top 5 students), Coca-Cola Vietnam & Thanh Nien News.	Nov 2013
Ambassador - Exchange Participant, AIESEC Indonesia.	Jun - Aug 2013

PROFESSIONAL SERVICES

Organizer committee: Where Innovation Meets Information NTIR Conference 2025.
Journal reviewer: Journal of Combinatorial Optimization - JOCO.
Conference reviewer: Computational Data and Social Networks - CSoNet.
Oct 2024 - Present