

RESEARCH INTERESTS

My research sits at the intersection of **Reinforcement Learning**, **Natural Language Processing**, and **Human-AI Interaction**, with a particular focus on LLM agents, with experience in finetuning using SFT, DPO and GRPO to optimize their behavior towards implicit reward signals, e.g., collaboration and deception. In addition, I explore how AI can support humans in decision-making and language tasks, e.g., Diplomacy and CaSiNo.

EDUCATION

University of Maryland

Doctor of Philosophy (Ph.D.) in Computer Science

College Park, MD

Aug. 2021 – Present

- Advisor: [Prof. Jordan Boyd-Graber](#)
- Expected graduation: 12/26

Master of Science (M.S.) in Computer Science

Aug. 2019 – May 2021

Chulalongkorn University

Bachelor of Science (B.S.) in Computer Science & Mathematics

Bangkok, Thailand

May 2013 – May 2017

EXPERIENCE

Graduate Research Assistant

University of Maryland

Jan. 2022 – Present

College Park, MD

- Currently supported by DARPA-FACT; PI: [Jonathan May \(USC\)](#) and co-PIs: [Jordan Boyd-Graber \(UMD\)](#) and [Jonathan K. Kummerfeld \(USydney\)](#).
- *In progress: RL optimization in multi-turn negotiation tasks:* LLMs struggle with long-horizon tasks and scarce rewards, we finetune Llama 3.1 and integrating active learning (using [surprisal embedding](#)) with baselines SFT, DPO and GRPO (RLVR and reward shaping), to improve LLMs.
- *In progress: Next Token Prediction:* efficiently improve LLMs to think before speak (Quiet-Star), dynamically select tokens to think and design rewards to verify thought tokens.
- *Highlight projects:*
 - * [CTRL-D](#): grounding natural language space into action space, using counterfactual RL for value estimation to detect human lies.
 - * [Human-AI interactions](#): benchmarking Meta's Cicero to highlight its competence against humans, and building Cicero to assist beginners to make decisions and talk like experts.

Graduate Teaching Assistant

University of Maryland

Aug. 2019 – Dec. 2021

College Park, MD

- CSMC742 Algorithms in Machine Learning (Fall 2021).
- CSMC412 Operating Systems (Spring 2021, Fall 2020).
- CSMC424 Database Design (Spring 2020, Fall 2019).

Business Intelligence Developer

True Digital Group

Jan. 2019 – June 2019

Bangkok, Thailand

- Provided Tableau training to Business Intelligence and Analytics team
- Lead BI team with Agile methodology

Business Intelligence Developer

Agoda Inc.

June 2017 – June 2018

Bangkok, Thailand

- Delivered BI Solutions for PPC marketing
- ETL and Visualized PPC data using SQL, Tableau and Google Data Studio

PUBLICATIONS

- **W. Wongkamjan**, Y. Wang, F. Gu, D. Peskoff, J. K. Kummerfeld, J. May, J. Boyd-Graber. “Should I Trust You? Detecting Deception in Negotiations using Counterfactual RL.” *Findings of the Association for Computational Linguistics* (ACL Findings), 2025. [paper](#) [code](#)
- F. Gu, **W. Wongkamjan**, J. K. Kummerfeld, D. Peskoff, J. May, J. Boyd-Graber. “Personalized Help for Optimizing Low-Skilled Users’ Strategy.” *The Nations of the Americas Chapter of the Association for Computational Linguistics* (NAACL), 2025. [paper](#)
- **W. Wongkamjan**, F. Gu, Y. Wang, U. Hermjakob, J. May, B. Stewart, J. K. Kummerfeld, D. Peskoff, J. Boyd-Graber. “More Victories, Less Cooperation: Assessing Cicero’s DIPLOMACY Play.” *Annual Meeting of the Association for Computational Linguistics* (ACL), 2024. [paper](#)
- N. Nananukul, **W. Wongkamjan** “What if Red Can Talk? Dynamic Dialogue Generation Using Large Language Models.” *Wordplay: When Language Meets Games* (ACL Workshop), 2024. [paper](#)
- X. Wang, R. Zheng, Y. Sun, R. Jia, **W. Wongkamjan**, H. Xu, F. Huang. “COPlanner: Plan to Roll Out Conservatively but to Explore Optimistically for Model-Based RL.” *International Conference of Learning Representation* (ICLR), 2024. [paper](#)
- X. Wang, **W. Wongkamjan**, R. Jia, F. Huang. “Live in the Moment: Learning Dynamics Model Adapted to Evolving Policy.” *International Conference on Machine Learning* (ICML), 2023. [paper](#)

PROFESSIONAL SERVICE

- Reviewer: NeurIPS 2025, ARR 2024–2025, CHI 2025, AAAI GenPlan 2025.

TECHNICAL SKILLS

Programming Languages: C/C++, Python, R, SQL, MATLAB

Deep Learning: PyTorch, TensorFlow

Data Systems: Hadoop, BigQuery

Data Tools: Tableau, Google Data Studio

Other: Unreal Engine 4