

# Xinyi Wang

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## ABOUT ME

I am a final-year Ph.D. candidate in the Computer Science department at the University of California, Santa Barbara (UCSB). My research focuses on developing a principled understanding of foundation models, with the goal of improving their capabilities and optimizing their application across diverse domains.

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## EDUCATION

- **University of California, Santa Barbara (UCSB)** Santa Barbara, CA, US  
*Ph.D. in Computer Science (expected)* 9.2020 - present
  - GPA: 4.0/4.0
  - Advisor: William Yang Wang
- **The Hong Kong University of Science and Technology (HKUST)** Hong Kong, China  
*B.Sc in Applied Mathematics and Computer Science* 9.2016 - 7.2020
  - GPA: 3.7/4.3

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## HONORS AND AWARDS

- J.P. Morgan AI PhD Fellowship J.P. Morgan AI, 2024
- Computer Science Outstanding Publication Award UCSB, 2024
- Second place in the Alexa Prize Simbot Challenge Amazon, 2023
- Academic Excellence Fellowship UCSB, 2020-2024
- Joseph Needham Merit Scholarship Hong Kong, 2020-2024
- The 15th Epsilon Fund Award HKUST, 2020
- Chern Class Scholarship HKUST, 2017-2020
- HKSAR Government Scholarship Fund - Reaching Out Award Hong Kong, 2019-2020
- University's Scholarship Scheme for Continuing Undergraduate Students HKUST, 2017-2020

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## PUBLICATIONS

\* denotes equal contribution.

- **Xinyi Wang\***, Antonis Antoniadis\*, Yanai Elazar, Alfonso Amayuelas, Alon Albalak, Kexun Zhang, William Yang Wang. *Generalization v.s. Memorization: Tracing Language Models' Capabilities Back to Pretraining Data*. Arxiv 2024. [\[paper\]](#)
- Jiachen Li, Weixi Feng, Tsu-Jui Fu, **Xinyi Wang**, Sugato Basu, Wenhui Chen, William Yang Wang. *T2V-Turbo: Breaking the Quality Bottleneck of Video Consistency Model with Mixed Reward Feedback*. NeurIPS 2024. [\[paper\]](#)
- Alon Albalak, Yanai Elazar, Sang Michael Xie, Shayne Longpre, Nathan Lambert, **Xinyi Wang**, Niklas Muennighoff, Bairu Hou, Liangming Pan, Haewon Jeong, Colin Raffel, Shiyu Chang, Tatsunori Hashimoto, William Yang Wang. *A Survey on Data Selection for Language Models*. TMLR 2024. [\[paper\]](#)
- **Xinyi Wang**, Alfonso Amayuelas, Kexun Zhang, Liangming Pan, Wenhui Chen, William Yang Wang. *Understanding the Reasoning Ability of Language Models From the Perspective of Reasoning Paths Aggregation*. ICML 2024. [\[paper\]](#)

- Iain Xie Weissburg, Mehir Arora, **Xinyi Wang**, Liangming Pan, William Yang Wang. *Tweets to Citations: Unveiling the Impact of Social Media Influencers on AI Research Visibility*. ICML 2024 (position paper). [\[paper\]](#)
- **Xinyi Wang**, Lucas Caccia, Oleksiy Ostapenko, Xingdi Yuan, William Yang Wang, Alessandro Sordoni. *Guiding Language Model Math Reasoning with Planning Tokens*. COLM 2024. [\[paper\]](#)
- Liangming Pan, Michael Saxon, Wenda Xu, Deepak Nathani, **Xinyi Wang**, William Yang Wang. *Automatically Correcting Large Language Models: Surveying the landscape of diverse self-correction strategies*. TACL 2023. [\[paper\]](#)
- Liangming Pan, Alon Albalak, **Xinyi Wang**, William Yang Wang. *Logic-LM: Empowering Large Language Models with Symbolic Solvers for Faithful Logical Reasoning*. Findings of EMNLP 2023. [\[paper\]](#)
- Wenhui Chen, Ming Yin, Max Ku, Pan Lu, Yixin Wan, Xueguang Ma, Jianyu Xu, **Xinyi Wang**, Tony Xia. *TheoremQA: A Theorem-driven Question Answering dataset*. EMNLP 2023. [\[paper\]](#)
- Wanrong Zhu, **Xinyi Wang**, Yujie Lu, Tsu-Jui Fu, Xin Eric Wang, Miguel Eckstein, William Yang Wang. *Collaborative Generative AI: Integrating GPT-k for Efficient Editing in Text-to-Image Generation*. EMNLP 2023. [\[paper\]](#)
- **Xinyi Wang**, Wanrong Zhu, William Wang. *Large Language Models Are Latent Variable Models: Explaining and Finding Good Demonstrations for In-Context Learning*. NeurIPS 2023, poster. [\[paper\]](#)
- Wenhui Chen, Xueguang Ma, **Xinyi Wang**, William W. Cohen. *Program of Thoughts Prompting: Disentangling Computation from Reasoning for Numerical Reasoning Tasks*. TMLR 2023. [\[paper\]](#)
- **Xinyi Wang**, Michael Saxon, Jiachen Li, Hongyang Zhang, Kun Zhang, William Yang Wang. *Causal Balancing for Domain Generalization*. ICLR 2023, poster. [\[paper\]](#)
- Michael Saxon, **Xinyi Wang**, Wenda Xu, William Yang Wang. *Relation Leakage in Elicited Natural Language Inference Datasets*. EACL 2023. [\[paper\]](#)
- Wenhui Chen, **Xinyi Wang**, William Yang Wang. *A Dataset for Answering Time-Sensitive Questions*. NeurIPS 2021 Datasets and Benchmarks Track, poster. [\[paper\]](#)
- **Xinyi Wang**, Wenhui Chen, Michael Saxon, William Yang Wang. *Counterfactual Maximum Likelihood Estimation for Training Deep Networks*. NeurIPS 2021, poster. [\[paper\]](#)
- Michael Saxon, Sharon Levy, **Xinyi Wang**, Alon Albalak, William Yang Wang. *Modeling Discursive Transparency in NLP Application Descriptions*. EMNLP 2021, oral. [\[paper\]](#)
- **Xinyi Wang**\*, Haiqin Yang\*, Liang Zhao, Yang Mo and Jianping Shen. *RefBERT: Compressing BERT by Referencing to Pre-computed Representations*. IJCNN 2021, oral. [\[paper\]](#)
- **Xinyi Wang**, Yi Yang. *Neural Topic Model with Attention for Supervised Learning*. AISTATS 2020, poster. [\[paper\]](#)

## INTERNSHIPS

- **Research Intern at MIT-IBM Watson Lab** Boston, MA, US  
*Mentor: Yikang Shen, Rameswar Panda* 6.2024 - 9.2024
  - Topic: theory of constructing pretraining data to facilitate language models' reasoning ability.
- **Research Intern at Microsoft Research** Montreal, QC, Canada  
*Mentor: Alessandro Sordoni* 6.2023 - 10.2023
  - Topic: parameter-efficient fine-tuning to improve math reasoning ability of large language models.

## SERVICES

- Conference reviewer: AAAI (2022, 2023), NeurIPS (2021, 2023, 2024), ICLR (2024, 2025), ICML (2024), COLM (2024), AISTATS (2025)
- Journal reviewer: TPAMI (2024)