

Jiashu Xu

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EDUCATION

Harvard University

Master's in Computational Science and Engineering, GPA: 4.0/4.0

Cambridge, USA

September 2022 - June 2024

University of Southern California

B.S. in Applied Math & Computer Science, GPA: 3.97/4.0

Los Angeles, USA

August 2020 - June 2022

University of California, Irvine

B.S. in Applied Math & Computer Science, GPA: 3.984/4.0

Irvine, USA

September 2018 - August 2020

Hong Kong University of Science and Technology

UCEAP summer study abroad, study robotics, GPA: 4.0/4.0

Hong Kong, China

June - August 2019

Awards: Center for Undergraduate Research in Viterbi Engineering Fellowship, Jennifer Battat Scholarship, USC Transfer Merit Scholarship, USC Academic Achievement Award, USC & UCI Dean's List (all semesters)

PUBLICATION

- [1] **SalKG: Learning From Knowledge Graph Explanations for Commonsense Reasoning**
Aaron Chan, **Jiashu Xu**, Boyuan Long, Soumya Sanyal, Tanishq Gupta, Xiang Ren
Conference on Neural Information Processing Systems (NeurIPS), 2021. [code](#) [paper](#)
- [2] **Dissection Gesture Sequence during Nerve Sparing Predicts Erectile Function Recovery after Robot-Assisted Radical Prostatectomy**
Runzhuo Ma, **Jiashu Xu**, Ivan Rodriguez, Gina DeMeo, Aditya Desai, Loc Trinh, Jessica H. Nguyen, Anima Anandkumar, Jim C. Hu, Andrew J. Hung
NPJ Digit Medicine, 2022. [abstract](#)
- [3] **Dissection Assessment for Robotic Technique (DART) to Evaluate Nerve-Spare of Robot-Assisted Radical Prostatectomy**
Runzhuo Ma, Alvin Hui, **Jiashu Xu**, Aditya Desai, Michael Tzeng, Emily Cheng, Loc Trinh, Jessica H. Nguyen, Anima Anandkumar, Jim C. Hu, Andrew J. Hung
American Urological Association Annual Conference (AUA), 2022. [abstract](#) [paper](#)
- [4] **Unified Semantic Typing with Meaningful Label Inference**
James Y. Huang, Bangzheng Li*, **Jiashu Xu***, Muhao Chen
North American Chapter of the Association for Computational Linguistics (NAACL), 2022. [code](#) [paper](#)
- [5] **Neural-Sim: Learning to Generate Training Data with NeRF**
Yunhao Ge, Harkirat Behl*, **Jiashu Xu***, Suriya Gunasekar, Neel Joshi, Yale Song, Xin Wang, Laurent Itti, Vibhav Vineet
European Conference on Computer Vision (ECCV), 2022. [code](#) [paper](#)
- [6] **X-Norm: Exchanging Normalization Parameters for Bimodal Fusion**
Yufeng Yin*, **Jiashu Xu***, Tianxin Zu, Mohammad Soleymani
ACM International Conference on Multimodal Interaction (ICMI), 2022. [paper](#)
- [7] **EXACT: Compositional Augmentation for Image-level Weakly-Supervised Instance Segmentation**
Jiashu Xu*, Yunhao Ge*, Brian Nlong Zhao, Laurent Itti, Vibhav Vineet
Transaction on Machine Learning Research (TMLR), 2023. Under review.
- [8] **Language-Driven Compositional Context Image Synthesis for Object Detection**
Yunhao Ge*, **Jiashu Xu***, Laurent Itti, Vibhav Vineet [arxiv](#)
- [9] **Can NLI Provide Proper Indirect Supervision for Low-resource Biomedical Relation Extraction?**
Jiashu Xu, Mingyu Derek Ma, Muhao Chen
Association for Computational Linguistics (ACL), [Oral](#). 2023. [arxiv](#)

[10] Instructions as Backdoors: Backdoor Vulnerabilities of Instruction Tuning for Large Language Models

Jiashu Xu, Mingyu Derek Ma, Fei Wang, Muhao Chen

Empirical Methods in Natural Language Processing (EMNLP), 2023. Under review.

[arxiv](#)

WORK & TEACHING EXPERIENCE

Amazon Alexa Science

New York, USA

Applied Scientist

Summer 2023

- LLM research for science team

Learning Assistant

Los Angeles, USA

CSCI 567: Machine Learning with Professor Haipeng Luo

Fall 2021

- Held Office Hours, monitored piazza to answer students' questions regarding math and code implementation and graded homework and projects

Teach for Los Angeles

Los Angeles, USA

Mentor

Spring 2021

- Tutored middle school students from LA K-12 community 1-on-1 on mathematics two hours every week
- Inspired students to reach full math potential in preparation for college and STEM careers

Math CEO

Irvine, USA

Mentor

Fall 2018 - Spring 2020

- Coordinated meetings with Santa Ana middle school students and taught mathematical thinking

Johnson & Johnson

Shanghai, China

Digital & Analytics Data Assistant

Summer 2019

- Tracked counterfeit products or parallel products from various sales channels using NLP techniques including semantic role labeling and named entity recognition
- Devised context extractor based on Jieba tokenizer and Chinese word vectors
- Presented in PCS 2019 medicine CIO summit about NLP approach for tracking counterfeit products

Math CEO

Irvine, USA

Mentor

Fall 2018 - Spring 2020

- Coordinated meetings with Santa Ana middle school students and taught mathematical thinking

Wind Information

Shanghai, China

Quantitative Index Research Analyst

March - July 2018

- Collaborated with product managers to launch Wind's new product: Wind Equity Backtester and implemented multiple prototype algorithms with test codes using python-wind and Pytest
- Code-reviewed index-related codes, queried Wind index database to resolve clients' complaints

SKILLS & MORE

Languages: Python, C++, Java, Scala, MATLAB, R, {Java, Type}script, HTML, CSS, LaTeX, Bash, SQL

Frameworks: PyTorch, TensorFlow, scikit-learn, Pandas, Spark, React, Spring