

# Jiashu Xu

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## EDUCATION

### Harvard University

Master's in Computational Science and Engineering

Cambridge, USA

September 2022 - June 2023

### 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)

## RESEARCH INTEREST

▶ Language-driven [6,8] and transparent [2,3] AI system; high-level supervisions [1,4,5,7]

## 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

*Conference on Computer Vision and Pattern Recognition (CVPR)*, 2023. Under review.

## [8] Language-Driven Compositional Context Image Synthesis for Object Detection

Yunhao Ge, **Jiashu Xu**, Laurent Itti, Vibhav Vineet

*Conference on Computer Vision and Pattern Recognition (CVPR)*, 2023. Under review.

[arxiv](#)

## WORK & TEACHING EXPERIENCE

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### 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

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

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