Jiashu Xu

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EDUCATION

Harvard University	*Cambridge, USA*
Master's in Computational Science and Engineering, GPA: 4.0/4.0	*September 2022 - June 2023*
University of Southern California	*Los Angeles, USA*
B.S. in Applied Math & Computer Science, GPA: 3.97/4.0	*August 2020 - June 2022*
University of California, Irvine	*Irvine, USA*
B.S. in Applied Math & Computer Science, GPA: 3.984/4.0	*September 2018 - August 2020*
Hong Kong University of Science and Technology	*Hong Kong, China*
UCEAP summer study abroad, study robotics, GPA: 4.0/4.0	*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

▶ Langrage-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

[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), 2023. Under review.   arxiv

WORK & TEACHING EXPERIENCE

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