James Y. Huang

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jyhuang36.github.io

EDUCATION

University of Southern California   Aug 2021 - present
Ph.D. in Computer Science, Advisor: Muhao Chen   Los Angeles, CA

University of California, Los Angeles   Sep 2019 - Mar 2021
M.S. in Computer Science, Advisor: Kai-Wei Chang   Los Angeles, CA

University of Toronto   Sep 2015 - May 2019
B.AS. with Honors, Engineering Science (Robotics Major)   Toronto, ON

PUBLICATIONS

1. DeAL: Decoding-time Alignment for Large Language Models
   James Y. Huang, Sailik Sengupta, Daniele Bonadiman, Yi-An Lai, Arshit Gupta, Nikolaos Pappas, Saab Mansour, Katrin Kirchoff, Dan Roth
   In Submission

2. MuirBench: A Comprehensive Benchmark for Robust Multi-image Understanding
   Fei Wang, Xingyu Fu, **James Y. Huang**, Zekun Li, Qin Liu, Xiaogeng Liu, Mingyu Derek Ma, Nan Xu, Wenxuan Zhou, Kai Zhang, Tianyi Lorena Yan, Wenjie Jacky Mo, Hsiang-Hui Liu, Pan Lu, Chunyuan Li, Chaowei Xiao, Kai-Wei Chang, Dan Roth, Sheng Zhang, Hoifung Poon, Muhao Chen
   ICLR 2025

3. Offset Unlearning for Large Language Models
   James Y. Huang, Wenxuan Zhou, Fei Wang, Fred Morstatter, Sheng Zhang, Hoifung Poon, Muhao Chen
   TMLR

4. mDPO: Conditional Preference Optimization for Multimodal Large Language Models
   Fei Wang, Wenxuan Zhou, **James Y. Huang**, Nan Xu, Sheng Zhang, Hoifung Poon, Muhao Chen
   EMNLP 2024

5. Contrastive Instruction Tuning
   Tianyi Yan, Fei Wang, **James Y. Huang**, Wenxuan Zhou, Fan Yin, Aram Galstyan, Wenpeng Yin, Muhao Chen
   ACL 2024 (Findings)

6. Bridging Continuous and Discrete Spaces: Interpretable Sentence Representation Learning via Compositional Operations
   James Y. Huang, Wenlin Yao, Kaiqiang Song, Hongming Zhang, Muhao Chen, Dong Yu
   EMNLP 2023 **Outstanding Paper Award**

7. Robust Natural Language Understanding with Residual Attention Debiasing
   Fei Wang*, **James Y. Huang***, Tianyi Yan, Wenxuan Zhou, Muhao Chen
   ACL 2023 (Findings)

8. Parameter-Efficient Tuning with Special Token Adaptation
   Xiaocong Yang, **James Y. Huang**, Wenxuan Zhou, Muhao Chen
   EACL 2023

9. Unified Semantic Typing with Meaningful Label Inference
   James Y. Huang, Bangzheng Li, Jiashu Xu, Muhao Chen
   NAACL 2022

10. Disentangling Semantics and Syntax in Sentence Embeddings with Pre-trained Language Models
    James Y. Huang, Kuan-Hao Huang, Kai-Wei Chang
    NAACL 2021

11. Robotic Immobilization of Motile Sperm
    Zhuoran Zhang, Changsheng Dai, **James Huang**, Xian Wang, Jun Liu, Junyan Zhang, Sergey Moskovtsev, Clifford Librach, Keith Jarvi, Yu Sun
    ICRA 2018

12. Automated Non-Invasive Measurement of Sperm Motility and Morphology Parameters
    Changsheng Dai, Zhuoran Zhang, **James Huang**, Xian Wang, Wenlong Meng, Junyan Zhang, Sergey Moskovtsev, Clifford Librach, Keith Jarvi, Yu Sun
    ICRA 2018

INDUSTRY EXPERIENCE

Adobe Research	Summer 2024
Research Scientist Intern	San Jose, CA
Amazon Web Services AI	Summer 2023
Applied Scientist Intern	Santa Clara, CA
Tencent AI Lab	Summer 2022
Research Scientist Intern	Bellevue, WA

TEACHING EXPERIENCE

Teaching Assistant	Spring 2025
CSCI 572 Information Retrieval and Web Search Engines	USC
Teaching Assistant	Fall 2024
CSCI 566 Deep Learning and its Applications	USC

AWARDS

Outstanding Paper Award, EMNLP	2023
Excellence Award, University of Toronto	2018
Undergraduate Student Research Award, NSERC Canada	2017

SERVICE

Reviewer: ARR, ACL, EMNLP, NAACL