Xin (Eric) Wang

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CURRENT EMPLOYMENT	**Director**, UCSC ERIC Lab	09/2020 - Present
	Assistant Professor, Computer Science and Engineering	09/2020 - Present
	Affiliate Faculty, UCSC NLP MS Program	12/2020 - Present
	Jack Baskin School of Engineering	
	University of California, Santa Cruz, CA, USA	

EDUCATION	**University of California, Santa Barbara**, CA, USA	2015 - 2020
	Ph.D. in Computer Science	
	Advisors: William Yang Wang, Yuan-Fang Wang	
	Additional thesis committee members: Matthew Turk, Xifeng Yan	
	Zhejiang University, Hangzhou, China	2011 - 2015
	B.Eng. in Computer Science	
	Top 100 Excellent Undergraduate Students of the Year, China Computer Federation (2014, top 100 in China)	

RESEARCH INTERESTS	Natural Language Processing, Computer Vision, and Machine Learning, with an emphasis on *Multimodality* and *Embodied Agents*.

PREVIOUS EMPLOYMENT	**Google Research**, Mountain View, CA, USA	
	Research Intern	Jun. 2019 - Sep. 2019
	Mentors: Sujith Ravi, Zornitsa Kozareva	
	Facebook AI Research, Menlo Park, CA, USA	
	Graduate Researcher	Apr. 2019 - Jun. 2019
	Mentors: Xinlei Chen, Marcus Rohrbach, Dhruv Batra	
	Microsoft Research, Redmond, WA, USA	
	Research Intern	Jun. 2018 - Sep. 2018
	Mentors: Lei Zhang, Asli Celikyilmaz, Jianfeng Gao	
	Adobe Research, San Francisco, CA, USA	
	Research Intern	Jun. 2017 - Sep. 2017
	Mentors: Geoffrey Oxholm, Oliver Wang, Eli Shechtman, Mike Lukac	
	Adobe Research, San Francisco, CA, USA	
	Research Intern	Jun. 2016 - Sep. 2016
	Mentor: Geoffrey Oxholm	
	Exacloud Inc., Hangzhou, China	
	Software Engineer Intern	Dec. 2014 - Mar. 2015
	The University of Hong Kong, Hong Kong	
	Visiting Research Assistant	Jul. 2014 - Sep. 2014
	Advisor: Yizhou Yu	

PUBLICATIONS *The conferences and journals listed below are top-tier ones in the corresponding research areas: natural language processing (ACL, NAACL, EMNLP, EACL), computer vision (CVPR, ICCV, ECCV, TPAMI, IJCV), AI and machine learning (NeurIPS, ICLR, ICML, AAAI). The acceptance rates are usually 15-25% for all accepted papers and less than 5% for oral presentations.*

Conference and Journal Papers

[53] Kaiwen Zhou, Kaizhi Zheng, Connor Pryor, Yilin Shen, Hongxia Jin, Lise Getoor, **Xin Eric Wang**. "ESC: Exploration with Soft Commonsense Constraints for Zero-shot Object Navigation", *International Conference on Machine Learning (ICML)*, 2023.

[52] Yue Fan, Winson Chen, Tongzhou Jiang, Chun Zhou, Yi Zhang, **Xin Eric Wang**. "Aerial Vision-and-Dialog Navigation". *Findings of 60th Annual Meeting of the Association for Computational Linguistics (ACL)*, 2023.

[51] Jialu Wang, Xinyue Gabby Liu, Zonglin Di, Yang Liu, **Xin Eric Wang**. "T2IAT: Measuring Valence and Stereotypical Biases in Text-to-Image Generation". *Findings of 60th Annual Meeting of the Association for Computational Linguistics (ACL)*, 2023.

[50] Weixi Feng, Xuehai He, Tsu-Jui Fu, Varun Jampani, Arjun Akula, Pradyumna Narayana, Sugato Basu, **Xin Eric Wang**, William Yang Wang. "Training-Free Structured Diffusion Guidance for Compositional Text-to-Image Synthesis". *International Conference on Learning Representations (ICLR)*, 2023.

[49] Yujie Lu, Weixi Feng, Wanrong Zhu, Wenda Xu, **Xin Eric Wang**, Miguel Eckstein, William Yang Wang. "Neuro-Symbolic Procedural Planning with Commonsense Prompting". *International Conference on Learning Representations (ICLR)*, 2023. **Spotlight Presentation**

[48] Xuehai He, **Xin Eric Wang**. "Multimodal Graph Transformer for Multimodal Question Answering". *The 17th Conference of the European Chapter of the Association for Computational Linguistics (EACL)*, 2023.

[47] Wanrong Zhu, An Yan, Yujie Lu, Wenda Xu, **Xin Eric Wang**, Miguel Eckstein, William Yang Wang. "Visualize Before You Write: Imagination-Guided Open-Ended Text Generation". *The 17th Conference of the European Chapter of the Association for Computational Linguistics (EACL)*, 2023.

[46] Wanrong Zhu, **Xin Eric Wang**, An Yan, Miguel Eckstein, William Yang Wang. "ImaginE: An Imagination-Based Automatic Evaluation Metric for Natural Language Generation". *The 17th Conference of the European Chapter of the Association for Computational Linguistics (EACL)*, 2023.

[45] Xuehai He, Chunyuan Li, Pengchuan Zhang, Jianwei Yang, **Xin Eric Wang**. "Parameter-efficient Fine-tuning for Vision Transformers". *Thirty-Seventh AAAI Conference on Artificial Intelligence (AAAI)*, 2023.

[44] Swati Jindal, **Xin Eric Wang**. "CUDA-GHR: Controllable Unsupervised Domain Adaptation for Gaze and Head Redirection", *IEEE/CVF Winter Conference on Applications of Computer Vision (WACV)*, 2023.

[43] Kaizhi Zheng, Xiaotong Chen, Odest Chad Jenkins, **Xin Eric Wang**. "VLM-bench: A Compositional Benchmark for Vision-and-Language Manipulation". *2022 Conference on Neural Information Processing Systems (NeurIPS)*, 2022.

[42] Xuehai He, Diji Yang, Weixi Feng, Tsu-Jui Fu, Arjun Akula, Varun Jampani, Pradyumna Narayana, Sugato Basu, William Yang Wang, **Xin Eric Wang**. "CPL: Counterfactual Prompt Learning for Vision and Language Models".

The 2022 Conference on Empirical Methods in Natural Language Processing (EMNLP), 2022.

[41] Kaiwen Zhou, **Xin Eric Wang**. "FedVLN: Privacy-preserving Federated Vision-and-Language Navigation". *17th European Conference on Computer Vision (ECCV)*, 2022.

[40] Tsu-Jui Fu, **Xin Eric Wang**, William Yang Wang. "Language-Driven Artistic Style Transfer". *17th European Conference on Computer Vision (ECCV)*, 2022.

[39] Jialu Wang, **Xin Eric Wang**, Yang Liu. "Understanding Instance-Level Impact of Fairness Constraints". *Thirty-ninth International Conference on Machine Learning (ICML)*, 2022.

[38] Yujie Lu, Wanrong Zhu, **Xin Eric Wang**, Miguel Eckstein, William Yang Wang. "Imagination-Augmented Natural Language Understanding". *2022 Annual Conference of the North American Chapter of the Association for Computational Linguistics (NAACL)*, 2022. **Oral Presentation**

[37] Wanrong Zhu, Yuankai Qi, Pradyumna Narayana, Kazoo Sone, Sugato Basu, **Xin Eric Wang**, Qi Wu, Miguel Eckstein, William Yang Wang. "Diagnosing Vision-and-Language Navigation: What Really Matters". *2022 Annual Conference of the North American Chapter of the Association for Computational Linguistics (NAACL)*, 2022. **Oral Presentation**

[36] Juncheng Li, Junlin Xie, Long Qian, Linchao Zhu, Siliang Tang, Fei Wu, Yi Yang, Yueting Zhuang, **Xin Eric Wang**. "Compositional Temporal Grounding with Structured Variational Cross-Graph Correspondence Learning". *IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, 2022.

[35] Tsu-Jui Fu, **Xin Eric Wang**, Scott Grafton, Miguel Eckstein, William Yang Wang. "M3L: Language-based Video Editing via Multi-Modal Multi-Level Transformer". *IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, 2022.

[34] Jing Gu, Eliana Stefani, Qi Wu, Jesse Thomason, **Xin Eric Wang**. "Vision-and-Language Navigation: A Survey of Tasks, Methods, and Future Directions". *60th Annual Meeting of the Association for Computational Linguistics (ACL)*, 2022.

[33] Jialu Wang, Yang Liu, **Xin Eric Wang**. "Assessing Multilingual Fairness in Pretrained Multimodal Representations". *Findings of 60th Annual Meeting of the Association for Computational Linguistics (ACL)*, 2022.

[32] Tianyi Luo, Rui Meng, **Xin Eric Wang**, Yang Liu. "Interpretable Research Replication Prediction via Variational Contextual Consistency Sentence Masking". *Findings of 60th Annual Meeting of the Association for Computational Linguistics (ACL)*, 2022.

[31] Jialu Wang, Yang Liu, **Xin Eric Wang**. "Are Gender-Neutral Queries Really Gender-Neutral? Mitigating Gender Bias in Image Search". *The 2021 Conference on Empirical Methods in Natural Language Processing (EMNLP)*, 2021. **Oral Presentation**

[30] Linjie Li, Jie Lei, Zhe Gan, Licheng Yu, Yen-Chun Chen, Rohit Pillai, Yu Cheng, Luowei Zhou, **Xin Eric Wang**, William Yang Wang, Tamara Lee Berg, Mohit Bansal, Jingjing Liu, Lijuan Wang, Zicheng Liu. "VALUE: A Multi-Task Benchmark for Video-and-Language Understanding Evaluation". *2021 Conference on Neural Information Processing Systems (NeurIPS)*, 2021.

[29] Jiayi Wei, Xilian Li, Yi Zhang, **Xin Eric Wang**. "Visual Question Rewriting for Increasing Response Rate". *The 44th International ACM SIGIR Conference on Research and Development in Information Retrieval (SIGIR)*, 2021.

[28] Wanrong Zhu, **Xin Eric Wang**, Tsu-Jui Fu, An Yan, Pradyumna Narayana, Kazoo Sone, Sugato Basu, William Yang Wang. "Multimodal Text Style Transfer for Outdoor Vision-and-Language Navigation". *The 16th Annual Meeting of the European chapter of the Association for Computational Linguistics (EACL)*, 2021

[27] An Yan, **Xin Eric Wang**, Tsu-Jui Fu, William Yang Wang. "L2C: Describing Visual Differences Needs Semantic Understanding of Individuals". *The 16th Annual Meeting of the European chapter of the Association for Computational Linguistics (EACL)*, 2021.

[26] Tsu-Jui Fu, **Xin Eric Wang**, Scott Grafton, Miguel Eckstein, William Yang Wang. "SSCR: Iterative Language-Based Image Editing via Self-Supervised Counterfactual Reasoning". *The 2020 Conference on Empirical Methods in Natural Language Processing (EMNLP)*, 2020. **Oral Presentation**

[25] Wanrong Zhu, **Xin Eric Wang**, William Yang Wang. "Towards Understanding Sample Variance in Visually Grounded Language Generation: Evaluations and Observations". *The 2020 Conference on Empirical Methods in Natural Language Processing (EMNLP)*, 2020.

[24] Jiannan Xiang, **Xin Eric Wang**, William Yang Wang. "Learning to Stop: A Simple yet Effective Approach to Urban Vision-Language Navigation". *Findings of the 2020 Conference on Empirical Methods in Natural Language Processing (EMNLP)*, 2020.

[23] Tsu-Jui Fu, **Xin Eric Wang**, Matthew Peterson, Scott Grafton, Miguel Eckstein, William Yang Wang. "Counterfactual Vision-and-Language Navigation via Adversarial Path Sampling". *16th European Conference on Computer Vision (ECCV)*, 2020. **Spotlight Presentation**

[22] **Xin Eric Wang***, Vihan Jain*, Eugene Ie, William Yang Wang, Zornitsa Kozareva, Sujith Ravi. "Environment-agnostic Multitask Learning for Natural Language Grounded Navigation". *16th European Conference on Computer Vision (ECCV)*, 2020.

[21] Wenqiao Zhang, **Xin Eric Wang**, Siliang Tang, Haizhou Shi, Haocheng Shi, Jun Xiao, Yueting Zhuang, William Yang Wang. "Relational Graph Learning for Grounded Video Description Generation". *ACM Multimedia Conference*, 2020.

[20] Juncheng Li, **Xin Wang**, Siliang Tang, Haizhou Shi, Fei Wu, Yueting Zhuang, William Yang Wang. "Unsupervised Reinforcement Learning of Transferable Meta-Skills for Embodied Navigation". *IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, 2020.

[19] Yuankai Qi, Qi Wu, Peter Anderson, **Xin Wang**, William Yang Wang, Chunhua Shen, Anton van den Hengel. "REVERIE: Remote Embodied Visual Referring Expression in Real Indoor Environments". *IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, 2020. **Oral Presentation**

[18] **Xin Wang**, Qiuyuan Huang, Asli Celikyilmaz, Jianfeng Gao, Dinghan Shen, Yuan-Fang Wang, William Yang Wang, Lei Zhang. "Vision-Language Navigation Policy Learning and Adaptation". *IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI)*, 2020.

[17] Pengda Qin, **Xin Wang**, Wenhu Chen, Chunyun Zhang, Weiran Xu, William Yang Wang. "Generative Adversarial Zero-Shot Relational Learning for Knowledge Graphs". *Thirty-Fourth AAAI Conference on Artificial Intelligence (AAAI)*, 2020. **Oral Presentation**

[16] **Xin Wang***, Jiawei Wu*, Junkun Chen, Lei Li, Yuan-Fang Wang, William Yang Wang. "VaTeX: A Large-Scale, High-Quality Multilingual Dataset for Video-and-Language Research". *Intenational Conference on Computer Vision (ICCV)*, 2019. **Oral Presentation**

[15] Ming Jiang, Qiuyuan Huang, Lei Zhang, **Xin Wang**, Pengchuan Zhang, Zhe Gan, Jana Diesner, Jianfeng Gao. "TIGEr: Text-to-Image Grounding for Image Caption Evaluation". *2019 Conference on Empirical Methods in Natural Language Processing and 9th International Joint Conference on Natural Language Processing (EMNLP-IJCNLP)*, 2019.

[14] **Xin Wang**, Qiuyuan Huang, Asli Celikyilmaz, Jianfeng Gao, Dinghan Shen, Yuan-Fang Wang, William Yang Wang, Lei Zhang. "Reinforced Cross-Modal Matching and Self-Supervised Imitation Learning for Vision-Language Navigation". *IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, 2019. **Best Student Paper Award ($1/5160 \approx 0.02\%$)**

[13] Da Zhang, Xiyang Dai, **Xin Wang**, Yuan-Fang Wang, Larry Davis. "MAN: Moment Alignment Network for Natural Language Moment Retrieval via Iterative Graph Adjustment". *IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, 2019.

[12] Jiawei Wu, **Xin Wang**, William Yang Wang. "Self-Supervised Dialogue Learning". *57th Annual Meeting of the Association for Computational Linguistics (ACL)*, 2019.

[11] Hong Wang, **Xin Wang**, Wenhan Xiong, Mo Yu, Xiaoxiao Guo, Shiyu Chang, William Yang Wang. "Self-Supervised Learning for Contextualized Extractive Summarization". *57th Annual Meeting of the Association for Computational Linguistics (ACL)*, 2019.

[10] Dinghan Shen, Asli Celikyilmaz, Yizhe Zhang, Liqun Chen, **Xin Wang**, Jianfeng Gao, Lawrence Carin. "Towards Generating Long and Coherent Text with Multi-Level Latent Variable Models". *57th Annual Meeting of the Association for Computational Linguistics (ACL)*, 2019.

[9] Jiawei Wu, **Xin Wang**, William Yang Wang. "Extract and Edit: An Alternative to Back-Translation for Unsupervised Neural Machine Translation". *17th Annual Conference of the North American Chapter of the Association for Computational Linguistics: Human Language Technologies (NAACL-HLT)*, 2019. **Oral Presentation**

[8] **Xin Wang**, Jiawei Wu, Da Zhang, Yu Su, William Yang Wang. "Learning to Compose Topic-Aware Mixture of Experts for Zero-Shot Video Captioning". *Thirty-Third AAAI Conference on Artificial Intelligence (AAAI)*, 2019. **Oral Presentation**

[7] **Xin Wang***, Wenhan Xiong*, Hongmin Wang, William Yang Wang. "Look Before You Leap: Bridging Model-Free and Model-Based Reinforcement Learning for Planned-Ahead Vision-and-Language Navigation". *European Conference on Computer Vision (ECCV)*, 2018.

[6] Wenhu Chen, Jianshu Chen, Yu Su, **Xin Wang**, Dong Yu, Xifeng Yan, William Yang Wang. "XL-NBT: A Cross-lingual Neural Belief Tracking Framework". *Conference on Empirical Methods in Natural Language Processing (EMNLP)*, 2018.

[5] **Xin Wang***, Wenhu Chen*, Yuan-Fang Wang, William Yang Wang. "No Metrics Are Perfect: Adversarial Reward Learning for Visual Storytelling". *56th Annual Meeting of the Association for Computational Linguistics (ACL)*, 2018. **Oral Presentation**

[4] **Xin Wang**, Wenhu Chen, Jiawei Wu, Yuan-Fang Wang, William Yang Wang. "Video Captioning via Hierarchical Reinforcement Learning". *IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, 2018.

[3] **Xin Wang**, Yuan-Fang Wang, William Yang Wang. "Watch, Listen, and Describe: Globally and Locally Aligned Cross-Modal Attentions for Video Captioning". *16th Annual Conference of the North American Chapter of the Association for Computational Linguistics: Human Language Technologies (NAACL-HLT)*, 2018.

[2] Da Zhang, Xiyang Dai, **Xin Wang**, Yuan-Fang Wang. "S3D: Single Shot multi-Span Detector via Fully 3D Convolutional Network". *29th British Machine Vision Conference (BMVC)*, 2018. **Oral Presentation**

[1] **Xin Wang**, Geoffrey Oxholm, Da Zhang, Yuan-Fang Wang. "Multimodal Transfer: A Hierarchical Deep Convolutional Neural Network for Fast Artistic Style Transfer". *IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, 2017.

PhD Dissertation

[1] **Xin Wang**. "Closing the Loop Between Language and Vision for Embodied Agents", PhD Dissertation, UC Santa Barbara, 2020.

Patents

[1] Geoffrey Oxholm, **Xin Wang**. "Multimodal style-transfer network for applying style features from multi-resolution style exemplars to input images". *US Patent 10,565,757*, 2020.

HONORS & AWARDS		
Amazon Alexa Prize Award (TaskBot)		2022-2023
Amazon Alexa Prize Award (SocialBot)		2022-2023
Amazon Alexa Prize Award (SimBot)		2022-2023
Google Faculty Research Award		2022
AAII Interdisciplinary Research Award		2022
Outstanding Publication Award, UCSB CS Department		2020
CVPR Best Student Paper Award **(1/5160 ≈ 0.02%)**		2019
Adobe Research Fellowship Finalist		2019
Outstanding Graduates, Zhejiang University		2015
Top 100 Excellent Undergraduate Student of the Year Award, China Computer Federation (**Top 100 in China**)		2014
National Endeavor Scholarship, Ministry of Education, China		2012 - 2014
First Prize Outstanding Student Scholarship, Zhejiang University		2013 - 2014
Merit Student Award, Zhejiang University		2013 - 2014
Student Leadership Award, Zhejiang University		2013
Activity Achievement Scholarship, Zhejiang University		2012

GRANTS

[12] *PI*, eBay Gift Grant, $60,000, 2023-2024.

[11] *PI*, Adobe Gift Grant, $15,000, 2023.

[10] *PI*, Amazon Alexa Prize Award (TaskBot), $250,000, 2022-2023.

[9] *PI*, Amazon Alexa Prize Award (SocialBot), $250,000, 2022-2023.

[8] *PI*, Amazon Alexa Prize Award (SimBot), $250,000, 2022-2023.

[7] *PI*, Google Faculty Research Award, $100,000, 2022-2023 (Co-PI: William Wang, my portion: $50,000).

[6] *PI*, AAII Interdisciplinary Research Award, $22,253 (three-month GSR support), 2022.

[5] *PI*, COR Faculty Allowance Award, $2,000, 2023.

[4] *PI*, UCSC Faculty Research Grant, $2,000, 2023.

[3] *PI*, UCSC New Faculty Research Grant, $2,000, 2022.

[2] *PI*, Google Cloud Research Credits, $5,000, 2021.

[1] *PI*, UCSC New Faculty Research Grant, $1,500, 2021.

SERVICE

Area Chair (or Senior Program Committee)
- Thirty-seventh Conference on Neural Information Processing Systems (NeurIPS), 2023
- The 61st Annual Meeting of the Association for Computational Linguistics (ACL), 2023
- Eleventh International Conference on Learning Representations (ICLR), 2023
- The 2022 Conference on Empirical Methods in Natural Language Processing (EMNLP), 2022
- The 60th Annual Meeting of the Association for Computational Linguistics (ACL), 2022
- The 2022 Annual Conference of the North American Chapter of the Association for Computational Linguistics (NAACL), 2022
- The 2nd Conference of the Asia-Pacific Chapter of the Association for Computational Linguistics and the 12th International Joint Conference on Natural Language Processing (AACL-IJCNLP), 2022
- The 31st International Joint Conference on Artificial Intelligence and the 23rd European Conference on Artificial Intelligence (IJCAI-ECAI), 2022
- Thirty-Sixth AAAI Conference on Artificial Intelligence (AAAI), 2022
- The 2021 Annual Conference of the North American Chapter of the Association for Computational Linguistics (NAACL), 2021
- The 30th International Joint Conference on Artificial Intelligence (IJCAI), 2021
- The 2020 Conference on Empirical Methods in Natural Language Processing (EMNLP), 2020

Session Chair
- The 2022 Conference on Empirical Methods in Natural Language Processing (EMNLP), 2022
- The 2020 Conference on Empirical Methods in Natural Language Processing (EMNLP), 2020 (Language Grounding to Vision, Robotics and Beyond)
- AAAI Conference on Artificial Intelligence (AAAI), 2019 (Natural Language Processing)

Organizer (or Chair)
- 4th Workshop on Spatial Language Understanding and Grounded Communication for Robotics (SpLU-RoboNLP), EMNLP 2023
- 4th Workshop on Closing the Loop Between Vision and Language (CLVL), ICCV 2021
- Workshop on Human Interaction for Robotic Navigation, ICCV 2021

- 2nd Workshop on Advances in Language and Vision Research (ALVR), NAACL 2021
- From VQA to VLN: Recent Advances in Vision-and-Language Research Tutorial, CVPR 2021
- 1st Workshop on Advances in Language and Vision Research (ALVR), ACL 2020
- Workshop on Language & Vision with applications to Video Understanding (LVVU), CVPR 2020
- Tutorial on Self-Supervised Deep Learning for NLP, AACL-IJCNLP 2020
- 3rd Workshop on Closing the Loop Between Vision and Language (CLVL), ICCV 2019

Program Committee (or Reviewer)
- Annual Meeting of the Association for Computational Linguistics (ACL)
- Conference on Empirical Methods in Natural Language Processing (EMNLP)
- Annual Conference of the North American Chapter of the Association for Computational Linguistics (NAACL)
- IEEE Conference on Computer Vision and Pattern Recognition (CVPR)
- International Conference on Computer Vision (ICCV)
- European Conference on Computer Vision (ECCV)
- International Journal of Computer Vision (IJCV)
- Conference on Neural Information Processing Systems (NeurIPS)
- International Conference on Learning Representations (ICLR)
- AAAI Conference on Artificial Intelligence (AAAI)
- Conference on Robot Learning (CoRL)
- International Joint Conference on Natural Language Processing (IJCNLP)
- The SIGNLL Conference on Computational Natural Language Learning (CoNLL)
- Workshop on Scene Graph Representation and Learning (SGRL), ICCV 2019
- Combined Workshop on Spatial Language Understanding & Grounded Communication for Robotics (SpLU-RoboNLP), NAACL 2019
- Workshop on e-Commerce and NLP (ECNLP), The Web Conference (WWW) 2019
- Southern California Natural Language Processing Symposium, 2018

University Service
- Graduate Admissions Committee, UCSC CSE Department, 2022
- NLP Faculty Search Committee, UCSC CSE Department, 2022
- Graduate Admissions Committee, UCSC CSE Department, 2021

TALKS

Building Generalizable, Efficient, and Trustworthy Embodied Agents
- University of California, Irvine   Mar 2023
- University of Southern California   Feb 2023
- King Abdullah University of Science and Technology   Feb 2023
- Peking University   Dec 2022

Efficient ~~Transfer~~ **Prompt** *Learning of Vision and Language Models*
- Adobe Research   Aug 2022

Advances in Vision-and-Language Research Beyond Performance
- Fudan University, virtual   Mar 2022
- USC Information Sciences Institute, virtual   Feb 2022
- Microsoft Research, virtual   Nov 2021

Fairness and Causality in Vision and Language Research
- Stanford University, virtual   Oct 2021

Tackling Data Scarcity in Vision and Language
- NAACL 2021 Multimodal AI Workshop, virtual   Jun 2021
- Arizona State University, virtual   Feb 2021

Towards Generalizable Navigation Learning
- Jiangmen, virtual   Sep 2020
- AI Technology Review, virtual   Aug 2020

Close The Loop Between Language and Vision for Embodied Agents
- Simon Fraser University, virtual   Apr 2020
- Rensselaer Polytechnic Institute, virtual   Apr 2020
- Peking University, virtual   Mar 2020
- Tsinghua University, virtual   Mar 2020
- University of California, Santa Cruz, CA   Mar 2020
- University of Rochester, Rochester, NY   Feb 2020
- Toyota Technological Institute at Chicago, Chicago, IL   Jan 2020

Reinforced Cross-Modal Matching and Self-Supervised Imitation Learning for Vision-Language Navigation
- GPU Technology Conference (GTC), virtual   Mar 2020

Go Beyond English: Multilingual Language Grounding in Vision
- ICCV 2019 Workshop on Person In Context, Seoul, South Korea   Oct 2019

VATEX: A Large-Scale, High-Quality Multilingual Dataset for Video-and-Language Research
- ACL 2020 Workshop on Advances in Language and Vision Research (ALVR), virtual   Jul 2020
- CVPR 2020 Workshop on Language & Vision with applications to Video Understanding (LVVU), virtual   Jun 2020
- ICCV 2019 Workshop on Closing the Loop Between Vision and Language (CLVL), Seoul, South Korea   Oct 2019

Language and Vision: Learning to Describe and Interact in the Multimodal World
- Robin.ly, Long Beach, CA   Jul 2019
- Facebook AI, Menlo Park, CA   Jun 2019
- Jiangmen, virtual   May 2019

TEACHING

Instructor, UC Santa Cruz   Winter 2023
CSE 244B: Machine Learning for Natural Language Processing

Instructor, UC Santa Cruz   Fall 2022
CSE 142: Machine Learning

Instructor, UC Santa Cruz   Spring 2022
CSE 142: Machine Learning

Instructor, UC Santa Cruz   Winter 2022
CSE 244B: Machine Learning for Natural Language Processing

Instructor, UC Santa Cruz   Fall 2021
CSE 142: Machine Learning

Instructor, UC Santa Cruz   Spring 2021
CSE 290C: Multimodal Deep Learning

Instructor, UC Santa Cruz   Winter 2021
CSE 142: Machine Learning

Co-Instructor, UC Santa Cruz   Fall 2020
CSE 280V: Seminar on Computer Vision

Guest Lecturer, UC Santa Cruz   Winter 2022
CSE 200: Research & Teaching in CSE

Guest Lecturer, UC Santa Barbara   Winter 2018
CS 281B: Computer Vision and Image Analysis

Teaching Assistant, UC Santa Barbara   Winter 2017
CS 190I: Introduction to Natural Language Processing

Teaching Assistant, UC Santa Barbara   Fall 2016
CS 180: Computer Graphics

Teaching Assistant, UC Santa Barbara   Winter 2016
CS 48: Computer Science Project

Teaching Assistant, UC Santa Barbara   Fall 2015
CS 32: Problem Solving with C++

MENTORING   **PhD Students**
- Yue Fan (PhD student, UCSC)   2021-present
- Jing Gu (PhD student, UCSC)   2021-present
- Xuehai He (PhD student, UCSC)   2021-present
- Kaizhi Zheng (PhD student, UCSC)   2021-present

- Kaiwen Zhou (PhD student, UCSC)   2021-present
- Jialu Wang (PhD candidate, UCSC, AAII Fellowship)   2020-present
- Yujie Lu (PhD student, UCSB)   2021-present
- Weixi Feng (PhD student, UCSB)   2021-present
- Wanrong Zhu (PhD candidate, UCSB)   2019-present
- Tsu-Jui Fu (PhD candidate, UCSB)   2019-present

Undergraduate & MS Students
- Saaket Agashe (MS student, UCSC)
- Dhananjay Sonawane (MS student, UCSC)
- Shree Vignesh S (MS student, UCSC)
- Dhananjay Sonawane (MS student, UCSC)
- Winson Chen (MS student, UCSC)
- Diji Yang (MS student, UCSC)
- Joseph Rodrigues (MS student, UCSC)
- Lyn Qiu (MS student, SJTU)
- Jiayi Wei (MS student, UCSC. Next: Google)
- An Yan (MS student, UCSD. Next: UCSD PhD student)
- Gabby Liu (Undergraduate, UCSC)
- Austin Chen (Undergraduate, UCSC)
- Tongzhou Jiang (Undergraduate, UCSC. Next: CMU MS student)
- Chun Zhou (Undergraduate, UCSC. Next: UCLA MS student)
- Peiqi Su (Undergraduate, UCSC. Next: NYU MS student)
- Kenan Jiang (Undergraduate, UC Berkeley)
- Zhen Zhang (Undergraduate, Tsinghua University)
- Yunchao Zhang (Undergraduate, Zhejiang University)
- Yuhang He (Undergraduate, Zhejiang University)
- Jiannan Xiang (Undergraduate, USTC. Next: CMU MS student)

PhD & MS Committees
- Connor Pryor (PhD Thesis Committee, UCSC)
- Geetanjali Rakshit (PhD Thesis Committee, UCSC)
- Swati Jindal (PhD Thesis Committee, UCSC)
- Tianyi Luo (PhD Thesis Committee, UCSC)
- Joseph Rodrigues (MS Project Committee Chair, UCSC)
- Chuangbo Tong (MS Project Committee Chair, UCSC)
- Omkar Patil (MS Project Committee, UCSC)
- Yusu Wang (MS Project Committee, UCSC)
- Siman Wang (MS Project Committee, UCSC)
- Andrea Vitek (MS Project Committee, UCSC)
- Jiayi Wei (MS Project Committee, UCSC)

SELECTED PRESS COVERAGE

- "How can EMNLP 2021 help to shape reality? On language models, stereotypes and biases mitigation at 360°", Italy Scholar, July 10, 2022, LINK.

- "Team of researchers win the public benchmark phase of new Alexa Prize competition", UCSC NEWSCENTER, May 3, 2022, LINK.

- "Ethics and algorithms", UC Santa Cruz Magazine, October, 2021, LINK

- "CVPR 2019 Attracts 9K Attendees; Best Papers Announced; ImageNet Honoured 10 Years Later", Synced, June 18, 2019, LINK (Other media coverage: VentureBeat, IEEE Computer Society, Noozhawk, UCSB Current)

- "New Multilingual Video Description Dataset VATEX Receives Three Strong Accepts at ICCV", Synced, July 29, 2019, LINK

- "Cloak: Remove Unwanted Objects in Video", Adobe Research Blog, December 11, 2017, LINK

- "Adobe tries its hand at turning photos into paintings with AI-powered Artistic Eye", Digitaltrends, March 7, 2017, LINK

- "ACL 2018 Highlights: Understanding Representations and Evaluation in More Challenging Settings", AYLIEN, LINK