Shuwen Qiu

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EDUCATION

University of California, Los Angeles, CA, USA   09/2020 - 06/2024(expected)
Ph.D. in Computer Science

University of California, Los Angeles, CA, USA   09/2018 - 06/2020
Master of Science in Computer Science
GPA:3.94/4.00

Beijing University of Posts and Telecommunications, Beijing, China   09/2014 - 06/2018
B.S. in Communication Engineering
GPA: 91.44/100.00

RESEARCH EXPERIENCE

Amazon, USA   06/2021 - 10/2021
Applied Scientist Intern   *Manager: Anurag Beniwal*
- Apply Transformer to sequential recommendation
- Combine Transformer and self-supervised learning to improve recommendation results

Center for Vision, Cognition, Learning and Autonomy, UCLA   09/2018 - present
Graduate Student Researcher   *Advisor: Song-Chun Zhu*
- Cooperation and Communication Mechanisms: the emergent graphical convention in a visual communication game
- Theory of Mind: human mental state inference in RGBD videos
- Pragmatics: Implicature reasoning in dialogues
- HRI: Human-robot interaction in the shared augmented workspace

Airdoc Research Group, China   07/2018 - 09/2018
Research Intern   *Advisor: Xin Zhao*
- Apply domain adaption to fundus image diagnosis
- Representation learning for fundus identity recognition

The Computational Vision and Learning Lab, UCLA   07/2017 - 09/2017
Cross-Disciplinary Scholars in Science and Technology (CSST) Program   *Advisor: Hongjing Lu*
- Stimuli preparation and subject data analysis
- Extract visual cues to predict human handshake awkwardness

Patter Recognition Intelligent System Lab, BUPT   05/2017 - 06/2018
Research Assistant   *Advisor: Weihong Deng*
- Apply domain adaption to enhance robustness for deep local feature descriptors
- Design platform for 360-degree face recognition

PUBLICATIONS

(* indicates equal contribution)
Qiu, Shuwen*, Sirui Xie*, Lifeng Fan, Tao Gao, Song-Chun Zhu, and Yixin Zhu. Emergent Graphical Conventions in a Visual Communication Game. arXiv preprint arXiv:2111.14210 (2021).

Zheng, Zilong, Shuwen Qiu, Lifeng Fan, Yixin Zhu, and Song-Chun Zhu. GRICE: A Grammar-based Dataset for Recovering Implicature and Conversational rEasoning. Findings of the Association for Computational Linguistics (ACL-IJCNLP) (2021)

Fan, Lifeng*, Shuwen Qiu*, Zilong Zheng, Tao Gao, Song-Chun Zhu and Yixin Zhu. Learning Triadic Belief Dynamics in Nonverbal Communication from Videos. IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR) (2021)(Oral)

Qiu, Shuwen*, Hangxin Liu*, Zeyu Zhang, Yixin Zhu, and Song-Chun Zhu. Human-Robot Interaction in a Shared Augmented Reality Workspace. International Conference on Intelligent Robots and Systems (IROS) (2020)

Kadambi, Akila, Nicholas Ichien, Shuwen Qiu, and Hongjing Lu. Understanding the visual perception of awkward body movements: How interactions go awry. Attention, Perception, Psychophysics (2020)

Qiu, Shuwen, and Weihong Deng. Deep local descriptors with domain adaptation. In Chinese Conference on Pattern Recognition and Computer Vision (PRCV). Springer, Cham, 2018.

TEACHING EXPERIENCE

University of California, Los Angeles, Department of Communication

Comm 155: Artificial Intelligence and New Media   Spring 2021
- Teaching Associate

Comm 188C: Introduction to Data Science   Winter 2021
- Teaching Assistant

University of California, Los Angeles, Department of Psychology

Psych 186A: Cognitive Science Laboratory: Introduction to Theory   Fall 2020
and Simulation
- Teaching Assistant

Psych 186A: Cognitive Science Laboratory: Introduction to Theory   Spring 2020
and Simulation
- Teaching Assistant

PROGRAMMING LANGUAGES   C/C++, C#, Python, MATLAB, LaTeX, HTML

DEEP LEARNING FRAMEWORKS   Pytorch, Tensorflow