

Chi Zhang

PH.D. CANDIDATE, COMPUTER SCIENCE, UNIVERSITY OF CALIFORNIA - LOS ANGELES

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EDUCATION

University of California - Los Angeles, Los Angeles, U.S.
Doctor of Philosophy, Computer Science *Sept 17 - Summer 22 (expected)*
Advanced to Candidacy
Advisor: Prof. Song-Chun Zhu
GPA: 4.00/4.00 (Overall)

University of California - Los Angeles, Los Angeles, U.S.
Master of Science, Computer Science *Sept. 17 - March 19*
Advisor: Prof. Song-Chun Zhu
GPA: 4.00/4.00 (Overall)

Zhejiang University, Hangzhou, China
Bachelor of Engineering, Computer Science *Sept. 13 - June 17*
GPA: 3.93/4.00 (Overall) **Rank: 1/17**

RESEARCH INTERESTS

Visual Reasoning, Computer Vision, Reinforcement Learning

PREPRINTS

Chi Zhang, Baoxiong Jia, Mark Edmonds, Song-Chun Zhu, Yixin Zhu, ACRE: Abstract Causal Reasoning Beyond Covariation, *under review*.

Chi Zhang*, Baoxiong Jia*, Song-Chun Zhu, Yixin Zhu, Abstract Spatial-Temporal Reasoning via Probabilistic Abduction and Execution, *under review*.

Chi Zhang*, Sirui Xie*, Baoxiong Jia*, Yixin Zhu, Ying Nian Wu, Song-Chun Zhu, Learning Algebraic Representation for Abstract Spatial-Temporal Reasoning, *under review*.

CONFERENCES

Wenhe Zhang, **Chi Zhang**, Yixin Zhu, Song-Chun Zhu, Machine Number Sense: A Dataset of Visual Arithmetic Problems for Abstract and Relational Reasoning, in *Proceedings of AAAI Conference on Artificial Intelligence (AAAI)*, 2020 (**Oral**)

Chi Zhang*, Baoxiong Jia*, Feng Gao, Yixin Zhu, Hongjing Lu, Song-Chun Zhu, Learning Perceptual Inference by Contrasting, in *Proceedings of Advances in Neural Information Processing Systems (NeurIPS)*, 2019 (**Spotlight**)

Xu Xie*, Changyang Li*, **Chi Zhang**, Yixin Zhu, Song-Chun Zhu, Learning Virtual Grasp with Failed Demonstrations via Bayesian Inverse Reinforcement Learning, in *Proceedings of International Conference on Intelligent Robots and Systems (IROS)*, 2019

Chi Zhang*, Feng Gao*, Baoxiong Jia, Yixin Zhu, Song-Chun Zhu, RAVEN: A Dataset for Relational and Analogical Visual reasoning, in *Proceedings of the IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, 2019

Chi Zhang, Yixin Zhu, Song-Chun Zhu, MetaStyle: Three-Way Trade-Off Among Speed, Flexibility, and Quality in Neural Style Transfer, in *Proceedings of AAAI Conference on Artificial Intelligence (AAAI)*, 2019

Hangxin Liu, **Chi Zhang**, Yixin Zhu, Chenfanfu Jiang, Song-Chun Zhu, Mirroring without Overimitation: Learning Functionally Equivalent Manipulation Actions, in *Proceedings of AAAI*

Conference on Artificial Intelligence (AAAI), 2019

Siyi Li, Tianbo Liu, **Chi Zhang**, Dit-Yan Yeung, Shaojie Shen, Learning Unmanned Aerial Vehicle Control for Autonomous Target Following, in *Proceedings of the International Joint Conference on Artificial Intelligence (IJCAI)*, 2018.

JOURNALS

Yixin Zhu, Tao Gao, Lifeng Fan, Siyuan Huang, Mark Edmonds, Hangxin Liu, Feng Gao, **Chi Zhang**, Siyuan Qi, Ying Nian Wu, Joshua B. Tenenbaum, Song-Chun Zhu, Dark, Beyond Deep: A Paradigm Shift to Cognitive AI with Humanlike Common Sense, *Engineering*, Volume 6, Issue 3, Pages 310-345

Zheqian Chen, **Chi Zhang**, Zhou Zhao, Deng Cai, Question Retrieval for Community-based Question Answering via Heterogeneous Social Influential Network, *Neurocomputing*, Volume 285, Pages 117-124

PATENTS

Xiangdong Li, Shihong Lv, Yikun Wang, Xiaowo Sun, **Chi Zhang**, A Method of Exact 3D Modeling Based on Natural Gestures via Data Gloves. Publication number: CN104778746 A.

SERVICE

I review for CVPR 2019, ICCV 2019, AAAI 2020, CVPR 2020, ECCV 2020, NeurIPS 2020, AAAI 2021, ICLR 2021, CVPR 2021

PROFESSIONAL EXPERIENCE

Machine Learning Engineer

Didi Research Institute

Advisor: Zenan Meng

April 17 - June 17

- Improved SLAM algorithms for high-fidelity mapping for autonomous vehicles

HONORS & SCHOLARSHIPS

Travel Award, NeurIPS, 2019

First-class Academic Excellence Scholarship, Zhejiang University, 2013 - 2016

First-class Research and Innovation Scholarship, Zhejiang University, 2015

Chinese Talent Scholarship, Asahi Kasei, 2016

Outstanding University Student Scholarship, Baosteel Group, 2016

AWARDS & PRIZES

Meritorious Winner of **Mathematical Contest in Modeling**, 2015

Five Star Volunteer, Zhejiang University, 2016

SELECTED PROJECTS

MXNet

Hong Kong University of Science and Technology

Advisor: Xingjian Shi

Sept. 16 - April 17

- Flexible and efficient machine learning library for heterogeneous distributed systems
