

Zilong Zheng

CONTACT INFORMATION

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Department of Computer Science
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RESEARCH INTERESTS

Machine Learning: Generative Models, Energy-Based Models, Unsupervised Learning
Natural Language Processing: Dialogue Management, Visual Question Answering

EDUCATION

University of California, Los Angeles Los Angeles, CA
Ph.D. in Computer Science Jan. 2018 - Present
Advisor: Prof. Song-Chun Zhu

University of California, Los Angeles Los Angeles, CA
M.S. in Computer Science Sept. 2016 - Dec. 2017

University of Minnesota, Twin Cities Minneapolis, MN
B.A. in Computer Science Jan. 2015 - June. 2016

University of Electronic Science and Technology of China Chengdu, China
B.E. in Microelectronic Technology Sept. 2012 - Jan. 2015

RESEARCH EXPERIENCE

DMAI, Inc, Los Angeles, CA Sept. 2017 - Present
Natural Language Research Scientist Intern
Supervisor: Prof. Song-Chun Zhu, Dr. Yixin Zhu
Project: Dialogue and Cognitive Platform

Center for Vision, Cognition, Learning and Autonomy (VCLA), UCLA Jan. 2017 - Present
Graduate Student Researcher
Advisor: Prof. Song-Chun Zhu
Project: Generative modeling and multimodal dialogue modeling

GroupLens, University of Minnesota Sept. 2015 - Dec. 2015
Research Assistant
Supervisor: Prof. Haiyi Zhu
Project: Human-Centric data mining

PREPRINTS

(* indicates equal contributions)

J. Xie*, **Z. Zheng***, R. Gao, W. Wang, S.-C. Zhu, Y.N. Wu, Learning Energy-Based 3D Descriptor Networks for Volumetric Shape Synthesis and Analysis *IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI)* (under review)

J.Xie*, **Z. Zheng***, X. Fang, S.-C. Zhu, Y. N. Wu, Cooperative Training of Fast Thinking Initializer and Slow Thinking Solver for Multi-modal Conditional Learning. *IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI)* (under review)

PUBLICATIONS	(* indicates equal contributions)	
	J. Xie*, R. Gao*, Z. Zheng , S.-C. Zhu, Motion-Based Generator Model: Unsupervised Disentanglement of Appearance, Trackable and Intrackable Motions in Dynamic Patterns. <i>34th AAAI Conference on Artificial Intelligence (AAAI 2020)</i> [Oral]	
	T. Yuan, H. Liu, L. Fan, Z. Zheng , T. Gao, Y. Zhu, S.-C. Zhu, Joint Inference of States, Robot Knowledge, and Human (False-)Beliefs. <i>IEEE International Conference on Robotics and Automation (ICRA 2020)</i>	
	Z. Zheng* , W. Wang*, S. Qi*, S.-C. Zhu, Reasoning Visual Dialogs with Structural and Partial Observations. <i>IEEE Conference on Computer Vision and Pattern Recognition (CVPR 2019)</i> [Oral]	
	J. Xie*, R. Gao*, Z. Zheng , S.-C. Zhu, Y.N. Wu, Learning Dynamic Generator Model by Alternating Back-Propagation Through Time. <i>Thirty-Third AAAI Conference on Artificial Intelligence (AAAI 2019)</i> [Spotlight]	
	J. Xie*, Z. Zheng* , R. Gao, W. Wang, S.-C. Zhu, Y.N. Wu, Learning Descriptor Networks for 3D Shape Synthesis and Analysis. <i>IEEE Conference on Computer Vision and Pattern Recognition (CVPR 2018)</i> [Oral]	
HONORS AND AWARDS	Outstanding Graduate Award, UESTC	2016
	Excellent College Graduate of Sichuan Province, UESTC	2016
	Top Prize of People Scholarship, UESTC	2014
	National Scholarship, UESTC	2013
ACADEMIC SERVICES	Reviewer, European Conference on Computer Vision (ECCV), 2020	
	Reviewer, Annual Meeting of the Association for Computational Linguistics (ACL), 2020	
	Reviewer, AAAI Conference on Artificial Intelligence (AAAI), 2020	
	Reviewer, Computer Vision and Pattern Recognition (CVPR), 2019, 2020	
	Reviewer, International Conference on Computer Vision (ICCV), 2019	
PROFESSIONAL EXPERIENCE	Google , Mountain View, CA	June. 2017 - Sept. 2017
	Google Assistant on Google Home	
	Software Engineer Intern	
	Oracle , Chengdu, China	Oct. 2014 - Dec. 2014
	Database R&D Group	
	Software Engineer Intern	
TECHNICAL SKILLS	Deep Learning Framework: TensorFlow, PyTorch, Torch	
	Computer Language: C/C++, Python, Java, MATLAB, JavaScript	
	Operating System: Linux(Ubuntu), Windows, Mac OS	
TEACHING EXPERIENCE	CSci 2011 (Disc. Structures), CSci 1913 (Intro. to Algs. & Programs Dev.)	