Lifeng Fan

CONTACT INFORMATION

9407 Boelter Hall
University of California, Los Angeles
Los Angeles, CA 90095, USA

Phone: (424) 535-8754
Email: lfan@ucla.edu
Homepage: https://lifengfan.github.io/

EDUCATION

University of California, Los Angeles, CA, USA Expected: 06/2021
Ph.D. Candidate in Statistics
GPA:4.00/4.00

Zhejiang University, Hangzhou, China 09/2012 - 06/2016
B.S. in Statistics, Minor in Public Management
GPA: 3.98/4.00

RESEARCH EXPERIENCE

DMAI Inc., Los Angeles, CA, USA 06/2019 - 09/2019
Summer Intern *Mentor: Yixin Zhu*
- Cognitive Platform: implementing live detection of human interaction and communication; modeling human mind, including belief, attention and intention

Center for Vision, Cognition, Learning and Autonomy, UCLA 09/2016 - present
Graduate Student Researcher *Advisor: Song-Chun Zhu*
- Theory of Mind: human mental state inference in VR environment and real videos
- Understanding human nonverbal communication by spatio-temporal reasoning networks
- Social Scene Understanding: inferring shared attention in social scene videos
- Cognitive Modeling: perception of human interaction based on motion trajectories

The Computational Vision and Learning Lab, UCLA 07/2015 - 09/2015
Cross-Disciplinary Scholars in Science and Technology (CSST) Program *Advisor: Hongjing Lu*
- Discovering hierarchical representations for action recognition
- Honored with Best Presentation Award for excellent research and final presentation

State Key Lab of CAD, ZJU 06/2014 - 06/2016
Research Assistant *Advisor: Ming Li*
- Texture synthesis optimization by Expectation Maximization algorithm

PUBLICATIONS

(* indicates equal contribution)

L. Fan, W. Wang, S. Huang, X. Tang and S.-C. Zhu. Understanding Human Gaze Communication by Spatio-temporal Graph Reasoning. *IEEE International Conference on Computer Vision (ICCV), 2019.*

L. Fan*, Y. Chen*, P. Wei, W. Wang and S.-C. Zhu. Inferring Shared Attention in Social Scene Videos. *IEEE Conference on Computer Vision and Pattern Recognition (CVPR), 2018.* **(Acceptance Rate: 29%)**

T. Shu*, Y. Peng*, **L. Fan**, H. Lu and S.-C. Zhu. Perception of Human Interaction Based on Motion Trajectories: from Aerial Videos to Decontextualized Animations. *Topics in Cognitive Science (TopiCS), 10(1): 225 - 241, 2018.*

T. Shu*, Y. Peng*, **L. Fan**, H. Lu and S.-C. Zhu. Inferring Human Interaction from Motion Trajectories in Aerial Videos. *39th Annual Meeting of the Cognitive Science Society (CogSci),*

2017. (**Oral presentation, Acceptance rate: 255/873 = 29%, Computational Modeling Prize**)

Selected Hornors And Awards

Most Promising Computational Statistician, UCLA Statistics Department. 06/2017

Computational Modeling Prize, Cognitive Science Society 06/2017

The 6th Ten Top Students in Zhejiang University, Zhejiang University 12/2015
(Awarded to 10 out of all undergraduate and graduate students at Zhejiang University for meritorious achievements at Zhejiang University.)

Chu Kochen Scholarship, Zhejiang University 10/2015
(The highest honor of Zhejiang University, awarded to 12 out of 5000+ undergraduate seniors each year for exceptional academic achievements.)

Best Presentation Award, UCLA-CSST Summer Research Program 09/2015

Honorable Mention, Mathematical Contest in Modeling (MCM) 04/2015

Tang Lixin Scholarship, Zhejiang University 10/2014 - present

First Prize in the 12th Mathematical Modeling Contest of Zhejiang University 06/2014

National Scholarship of China, Ministry of Education, China 2013, 2014

Teaching Experience

University of California, Los Angeles, Department of Statistics

STATS 202A: Statistics Programming Fall 2017
- Teaching Assistant

STATS 12: Intro to Statistical Methods for Geography and Environmental Studies Winter 2018
- Teaching Assistant

STATS 102C: Introduction to Monte Carlo Methods Fall 2018
- Teaching Assistant

Programming Languages

C/C++, C#, Python, MATLAB, R, LaTeX, HTML

Deep Learning Frameworks

Pytorch, Tensorflow, Keras