# Siyuan Huang

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## Contacts

University of California, Los Angeles
Department of Statistics
9401 Bolter Hall
Los Angeles, CA 90095, USA

E-mail: huangsiyuan@ucla.edu
Homepage: www.siyuanhuang.com
Phone: +1 (334) 524-7833

## Education

**University of California, Los Angeles (UCLA)**, CA, USA — *Expected: Jun 2021*
Ph.D., Statistics
Advisor: Professor Song-Chun Zhu
GPA: 4.0/4.0

**Tsinghua University (THU)**, Beijing, China — *Sep 2012 - Jun 2016*
B.E., Automation
GPA: 90.4/100

## Research Interests

**Computer Vision**: 3D scene understanding, 3D perception, human-object interaction
**Machine Learning**: graphical model, deep learning, reinforcement learning
**Robotics**: vision-based robotics

## Research Experience

**Center for Vision, Cognition, Learning and Art (VCLA), UCLA** — *Sep 2016 - present*
*Graduate Student Researcher*
Advisor: Professor Song-Chun Zhu

**Intelligent Vision Group (IVG), THU** — *Sep 2014 - Apr 2016*
*Research Assistant*
Advisor: Professor Jiwen Lu, Professor Jie Zhou

**Pattern Recognition and Image Processing (PRIP) Lab, MSU** — *Jul 2015 - Sep 2015*
*Research Intern*
Advisor: Professor Anil K. Jain

## Publications

(* indicates equal contributions )

**S. Huang**, S. Qi, Y. Zhu, Y. Xiao, Y. Xu, S.-C. Zhu, "Monocular Scene Parsing and Reconstruction using 3D Holistic Scene Grammar", *under review for ECCV 2018*

S. Qi, Y. Zhu, **S. Huang**, C. Jiang, S.-C.Zhu, "Human-centric Indoor Scene Synthesis using Stochastic Grammar", *IEEE Conference on Computer Vision and Pattern Recognition (CVPR), 2018*

S. Qi, **S. Huang**, P. Wei and S.-C. Zhu, "Predicting Human Activities Using Stochastic Grammar", *IEEE International Conference on Computer Vision (ICCV), 2017*

C. Jiang*, Y. Zhu*, S. Qi*, **S. Huang***, D. Terzopoulos and S.-C. Zhu, "Configurable, Photorealistic Image Rendering and Ground Truth Synthesis by Sampling Stochastic Grammars Representing Indoor Scenes", *arXiv:1704.00112 (under review for IJCV)*

**S. Huang**, J. Lu, J. Zhou and A.K. Jain, "Nonlinear Local Metric Learning for Person Re-identification", *arXiv:1511.05169*

B. Chen, L. Deng, Y. Duan, **S. Huang** and J. Zhou, "Building Change Detection Based on 3D Reconstruction", *IEEE International Conference on Image Processing (ICIP), 2015*

L. Deng*, **S. Huang***, Y. Duan, B. Chen and J. Zhou, "Image Set Querying Based Localization", *IEEE Visual Communication and Image Processing (VCIP) 2015*

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| Awards and Scholarship | Scholarship of Excellent Academic Performance, Tsinghua University | 2015 |
| | Scholarship of Excellent Academic Performance, Tsinghua University | 2014 |
| | HAGE Scholarship, Department of Automation, Tsinghua University | 2014 |
| | Comprehensive Merit Scholarship, Tsinghua University | 2013 |
| | Second Prize, National Physics Contest of College Students | 2013 |

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| Skills | MATLAB, C/C++, Python, C#, Opencv, Linux, Verilog, VHDL, LaTeX |