

Xuaner (Cecilia) Zhang

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Education

University of California, Berkeley

PhD Candidate in Computer Science

Thesis Topic: Bringing cinema-quality rendering into casual photos and videos

Adviser: Ren Ng

September 2020

Berkeley, CA

Rice University

B.S. in Electrical and Computer Engineering

Minor in Computational Applied Mathematics

Graduated with **Summa Cum Laude** and **Distinction in Research**

May 2015

Houston, TX

Research Focus

Computational Photography, Machine Learning, Computer Graphics I'm interested in building systems to bring cinema quality imagery into casually-taken photos and videos, making casual photos and videos a more effective and ubiquitous story-telling form.

Publications

Zhang, X., Barron, J., Tsai, Y., Zhang, X.M., Panday, R., Ng, R., Jacobs, D., Portrait Shadow Manipulation, *In proceedings of SIGGRAPH 2020*

Zhang, X., Matzen, K., Nguyen, V., Yao, D., Zhang, Y., Ng, R., Synthetic Defocus and Look-Ahead Autofocus for Casual Videography, *In proceedings of SIGGRAPH 2019*.

Zhang, X., Chen, Q., Ng, R., Koltun, V., Zoom to Learn, Learn to Zoom. *IEEE Conference on Computer Vision and Pattern Recognition (CVPR) 2019*.

Zhang, X., Ng, R., Chen, Q., Single Image Reflection Separation with Perceptual Losses. *IEEE Conference on Computer Vision and Pattern Recognition (CVPR) 2018*.

Zhang, X., Lee, J.Y., Sunkavalli, K., Wang, Z., Photometric Stabilization for Fastforward Videos. *In Computer Graphics Forum (Vol. 36, No. 7, pp. 105-113) 2017*.

Zhang, X., Wong, L., Virtual Fitting: Real-Time Garment Simulation for Online Clothes Shopping, *International Conference on Computer Animation and Social Agents (CASA) 2014*.

Research Experience

G-cam, Google

Research Intern

· Advisor(s): David Jacobs, Yun-ta Tsai, Jonathan Barron

06/2019- 01/2020

Mountain View, CA

Intelligent System Lab, Intel

Research Intern

· Advisor(s): Qifeng Chen and Vladlen Koltun

06/2018- 11/2018

Santa Clara, CA

Computational Photography Team, Facebook

Research Intern

· Advisor(s): Kevin Matzen

05/2017 - 08/2017

Seattle, WA

Imagination Lab, Adobe Research*Research Scientist Intern***05/2016 - 08/2016***San Jose, CA*

- Advisor(s): Joon-Young Lee, Kalyan Sunkavalli, Zhaowen Wang

Information System Group, Hochschule Pforzheim*Research Assistant (DAAD RISE Scholar)***05/2013 - 08/2013***Pforzheim, Germany*

- Advisors: Tobias Gehrke

Teaching and Mentorship Experience

TechX Academy Instructor, Shanghai, China**07/2019 - 08/2019**

Designed and taught a 10-day course on "Intro to Computer Vision"

Graduate Student Instructor, EECS, UC Berkeley**08/2016 - 05/2018**

Taught weekly discussion sessions on "Foundations of Computer Graphics"

BAIR Academic Mentor**2016 - present**

Mentored undergraduates members of Berkeley AI-Research on research and academic plans

Computer Vision for Global Challenges Ambassador**04/2019 - 06/2019**

Mentored researchers from developing countries to give presentation and make academic poster talk at CVPR2019 CV4GC Workshop

Course Assistant, "Fundamental of Electrical Engineering", Rice University**08/2014 - 12/2015****Coursera Forum Modulator**, "Fundamental of Electrical Engineering"**08/2014 - 12/2014****Honors and Awards**

Selected participant, Asian Dean's Forum - Rising Star Women in Engineering Workshop

10/2019

Selected participant, Rising Stars in EECS

10/2019

Selected participant, CRA-W (Computing Research Association) Grad Cohort

04/2016

Willy Revolution Award for Innovative Design (grand prize for senior design)

10/2014

IEEEExtreme 24-Hour Programming Competition, ranked 156/1853 worldwide

05/2014**Leadership and Affiliation**

UC Berkeley Women In Computer Science and Engineering, Co-President

2019 - 2020

UC Berkeley Women In Computer Science and Engineering, Industrial Liaison

2016 - 2018

Phi Beta Kappa Honor Society, Member

2015 - 2016

Eta Kappa Nu Electrical Engineering Honor Society, Member

2014 - 2016

Rice University IEEE Student Chapter, Vice President

2014 - 2015**Professional Services**

Paper Reviewer of: ICCV, CVPR, AAAI, TVCG, TIP

Programming Skills

Computer Languages

Python, MATLAB, C++

Tools:PyTorch, Tensorflow, Caffe, Caffe2, OpenCV, Linux Shell, Vim, L^AT_EX