Cindy **M. Nguyen**

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EDUCATION

Stanford University

Ph.D. Candidate in Electrical Engineering, Sept 2019 – Expected June 2024
Stanford Computational Imaging Lab – Advisor: Gordon Wetzstein

M.S. in Electrical Engineering, Sept 2019 – June 2021
GPA: 3.69 / 4.00

B.S. in Bioengineering, Sept 2015 – June 2019
Stanley Qi Lab – Advisor: Lei Stanley Qi
GPA: 3.90 / 4.00

RESEARCH INTERESTS

Computational Photography, Computational Imaging, Computer Vision

PUBLICATIONS

Diffusion in the Dark: A Diffusion Model for Low-Light Text Recognition.
Cindy M. Nguyen, Eric R. Chan, Alexander W. Bergman, Gordon Wetzstein.
arXiv, 2023.

Learning Spatially Varying Pixel Exposures for Motion Deblurring.
Cindy M. Nguyen, Julien N.P. Martel, Gordon Wetzstein.
IEEE Int. Conference on Computational Photography, 2022.

Depth from Defocus with Learned Optics for Imaging and Occlusion-Aware Depth Estimation.
Hayato Ikoma, **Cindy M. Nguyen**, Christopher A. Metzler, Yifan Peng, Gordon Wetzstein.
IEEE Int. Conference on Computational Photography, 2021.

CRISPR-Mediated Live Imaging of Genome Editing and Transcription.
Haifeng Wang, Muneaki Nakamura, Timothy R. Abbott, Dehua Zhao, Kaiwen Luo, Cordelia Yu, **Cindy M. Nguyen**, Albert Lo, Timothy P. Daley, Marie La Russa, Yanxia Liu, Lei S. Qi.
Science, 2019.

CRISPR-Mediated Programmable 3D Genome Positioning and Nuclear Organization.
Haifeng Wang, Xiaoshu Xu, **Cindy M. Nguyen**, Yanxia Liu, Yuchen Gao, Xueqiu Lin, Timothy Daley, Nathan H. Kipniss, Marie La Russa, Lei S. Qi.
Cell, 2018.

INTERNSHIPS

Adobe Research June 2022 – Dec 2022
Research Scientist Intern, San Jose, CA
Hosted by Kevin Matzen, Simon Niklaus, and Oliver Wang. Developed methods for multi-layered monocular depth prediction.

EXPERIENCE

Ph.D. Researcher Sept 2019 – Present
Stanford Computational Imaging Lab, Stanford University
Advised by Gordon Wetzstein. Working on computational photography problems in depth prediction and deblurring using deep learning.

Undergraduate Researcher Sept 2017 – Mar 2019
Brian Feldman Lab, Stanford University
Performed RNA-Seq analysis of early metabolic cues of diabetes in mature adipocytes.

Undergraduate Researcher July 2018 – Sept 2018

Markus Schwaninger Lab, Universität zu Lübeck
Characterizing blood-brain barrier transport mechanisms of leptin.

Undergraduate Researcher Mar 2016 – Feb 2018
Stanley Qi Lab, Stanford University
Engineered a chemcially-inducible CRISPR for human chromatin 3D organization.

High School Researcher June 2014 – Aug 2014, June 2015 – Aug 2015
Sean Wu Lab, Stanford University
Engineered CRISPR systems targeting human cardiomyocyte genes in stem cells.

HONORS

Stanford JEDI Service Graduation Award 2021
Awarded for dedication to improving accessibility of STEM to underrepresented communities (USD 1,000)

Generation Google Scholarship 2021
Scholarship for commitment to diversity, demonstrated leadership, and academic performance (USD 10,000)

NSF Graduate Research Fellowship 2019
Three-year fellowship awarded to ~15% of applicants nationally (USD 34,000/year)

Stanford NeuroTech Fellowship 2019
Declined early acceptance to three-year fellowship due to changing interests

German Academic Exchange Service Scholarship 2018
Scholarship for conducting research abroad at the Universität zu Lübeck (EUR 1,250/month)

Stanford Bio-X Undergraduate Research Fellowship 2017
Fellowship for conducting summer research (USD 7,000)

Google igniteCS Grant 2017
Grant to direct and organize computer science educational workshop series in low-income communities (USD 4,000)

NSF Undergraduate Research Fellowship 2016
Fellowship for conducting summer research (USD 6,400)

Stanford Haas Education Partnerships Grant 2016, 2017
Grant to direct and organize educational outreach programs in low-income communities (USD 1,000 x2)

TEACHING

Oral Communications Tutor, Stanford Hume Center 2018 – 2019
Teaching Assistant, Stanford Institutes of Medicine Research Program 2019
Course Grader, Stanford BIOE 103 Course 2019

SERVICE

Reviewer
CVPR 2023, Eurographics 2023, Transactions on Graphics 2022

Co-Founder and Senior Advisor 2019 - Present
Stanford SHTEM High School and Community College Research Internship Program

Programs Officer 2018
Stanford Future Advancers of Science and Technology

Project Lead 2017
Google igniteCS, Stanford University

Co-Founder 2016 – 2017
Catalist, Stanford University