

# 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

**B.S.** in Bioengineering, Sept 2015 – June 2019  
Stanley Qi Lab – Advisor: Lei Stanley Qi

## RESEARCH INTERESTS

Computational Photography, Generative Models, 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.  
*IEEE/CVF Winter Conference on Computer Vision (WACV)*, 2024.

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

**Netflix** June 2023 – Sept 2023  
Machine Learning Engineering Intern, Los Gatos, CA  
Applied generative models in content and promotional media production.

**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 chemically-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**

**Engineering Learning Consultant**, Stanford Center for Teaching Learning 2023

**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**  
ICLR 2024, NeurIPS 2023, 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