

Cindy M. Nguyen cindyn@stanford.edu | 408-890-8149 | cnguyen.github.io

INTERESTS | Computational photography (depth prediction, HDR, deblurring), computational imaging, computer vision, deep learning

EDUCATION

PhD	Stanford University	Electrical Engineering	2019 – Expected 2024
MS	Stanford University	Electrical Engineering (GPA 3.69/4.00)	2019 - 2021
BS	Stanford University	Bioengineering (GPA 3.90/4.00)	2015 - 2019

Relevant Coursework | Geometric and Topological Data Analysis, Fourier Optics, Modern Optics, Convex Optimization, Linear Dynamical Systems, CNNs, AI/ML, Meta-Learning, Decision Making under Uncertainty, NLP

EXPERIENCE

[Adobe Research](#) | Research Scientist Intern

June 2022 – Dec 2022 | San Jose, CA

Hosted by Kevin Matzen, Simon Niklaus, and Oliver Wang. Developed a method for multi-layered monocular depth estimation.

RESEARCH

[Stanford Computational Imaging Lab](#) | PhD Candidate

Sept 2019 – Present | Stanford University

Advised by Prof. Gordon Wetzstein. Building deep learning-based methods for computational imaging and photography.

[Brian Feldman Lab](#) | Research Assistant

Sep 2017 – Mar 2019 | Stanford University

Performed RNA-Seq analysis in mature adipocytes to identify metabolic systemic cues for diabetes.

[Markus Schwaninger Lab](#) | Research Assistant

July 2018 – Sept 2018 | Universität zu Lübeck, Lübeck, Germany

Investigated leptin transport across the blood-brain barrier in porcine cortical endothelial in vitro models.

[Stanley Qi Lab](#) | Research Assistant

Mar 2016 – Feb 2018 | Stanford University

Developed chemically-inducible CRISPR/dCas9-based dimerization systems for human chromatin 3D organization and spatiotemporal gene dynamics tracking through live cell imaging.

PUBLICATIONS

Diffusion in the Dark: A Diffusion Model for Low-Light Text Recognition.

Nguyen, C.M., Chan, E.R., Bergman, A.W., Wetzstein, G. *arXiv*, 2023.

Learning Spatially Varying Pixel Exposures for Motion Deblurring.

Nguyen, C.M., Martel, J.N.P., Wetzstein, G. *ICCP*, 2022.

Depth from Defocus with Learned Optics for Imaging and Occlusion-Aware Depth Estimation.

Ikoma, H., Nguyen, C.M., Metzler, C.A., Peng, Y., Wetzstein, G. *ICCP*, 2021.

CRISPR-Mediated Live Imaging of Genome Editing and Transcription.

Wang, H., Nakamura, M., Abbott, T.R., Zhao, D., Luo, K., Yu, C., Nguyen, C.M., ..., Qi, L.S. *Science*, 2019.

CRISPR-Mediated Programmable 3D Genome Positioning and Nuclear Organization.

Wang, H., Xu, X., Nguyen, C.M., Liu, Y., Gao, Y., Lin, X., Daley, T., Kipniss, N.H., La Russa, M., Qi, L.S. *Cell*, 2018.

Press: [Stanford Medicine](#), [Stanford Daily](#), [Quanta](#), [Science](#)

HONORS

[NSF GRFP](#), [Generation Google Scholarship](#), [German Academic Exchange Service Scholarship](#), Stanford JEDI Service

Graduation Award, Stanford Bio-X Undergrad Research Fellowship, NSF Undergrad Research Fellowship, Google igniteCS Grant

TECHNICAL SKILLS

Experienced | PyTorch, Python, MATLAB

Familiar | Onshape, Blender, Zemax, InkScape, ImageJ