Cindy M. Nguyen

Stanford, CA 94305 | cindyn@stanford.edu | 408-890-8149

INTERESTS | Computer vision, computational imaging, deep learning

EDUCATION

PhDStanford UniversityElectrical Engineering2019 - PresentMSStanford UniversityElectrical Engineering (GPA 3.69/4.00)2019 - 2021BSStanford UniversityBioengineering (GPA 3.90/4.00)2015 - 2019

Relevant Coursework: Geometric and Topological Data Analysis, Fourier Optics, Modern Optics, Convex Optimization, Computational Imaging, Linear Dynamical Systems, Convolutional Neural Networks, Machine Learning, Artificial Intelligence, Meta-Learning, Decision Making under Uncertainty, Natural Language Processing

RESEARCH EXPERIENCE

Stanford Computational Imaging Lab | Stanford University, Stanford, CA

January 2020 - Present

Research Assistant

Advised by Gordon Wetzstein. Working on end-to-end optimization for camera ISPs.

Brian Feldman Lab | Stanford University, Stanford, CA (moved to UCSF)

Sept 2017 - Mar 2019

Research Assistant

Performed RNA-Seq analysis to study mature adipocytes as nutrient biosensors to identify metabolic systemic cues.

Markus Schwaninger Lab | Universität zu Lübeck, Lübeck, Germany

July 2018 - Sept 2018

German Academic Exchange Service RISE Fellow

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

Stanley Qi Lab | Stanford University, Stanford, CA

Mar 2016 - Feb 2018

Research Assistant

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

Sean Wu Lab | Stanford University, Stanford, CA

Research Assistant June 2015 – Aug 2015

Research Assistant June 2014 – Aug 2014

Developed CRISPR/Cas9 systems targeting human cardiomyocyte loci in induced pluripotent stem cells.

PUBLICATIONS AND PREPRINTS

- 1. Ikoma, H., Nguyen, C.M., Peng, Y., Metzler, C., Wetzstein, G. (2021) Depth from Defocus with Learned Optics for Imaging and Occlusion-Aware Depth Estimation. *IEEE International Conference on Computational Photography.*
- 2. Wang, H., Nakamura, M., Abbott, T.R., Zhao, D., Luo, K., Yu, C., Nguyen, C.M., Lo, A., Daley, T., La Russa, M., Liu, Y., Qi, L.S. (2019). CRISPR-Mediated Live Imaging of Genome Editing and Transcription. *Science*.
- 3. Wang, H., Nakamura, M., Zhao, D., Nguyen, C.M., Yu, C., Lo, A., Daley, T., La Russa, M., Liu, Y., Qi, L.S. (2019). Temporal-Spatial Visualization of Endogenous Chromosome Rearrangements in Living Cells. *bioRxiv*.
- 4. Wang, H., Xu, X., Nguyen, C.M., Liu, Y., Gao, Y., Lin, X., Daley, T., Kipniss. N.H., La Russa, M., Qi, L.S. (2018). CRISPR-Mediated Programmable 3D Genome Positioning and Nuclear Organization. *Cell. Press: Stanford Medicine, Stanford Daily, Quanta, Science*

FELLOWSHIPS, GRANTS, AND AWARDS

Awarded for dedication to improving accessibility of STEM to underrepresented communities (USD 1,000) Generation Google Scholarship Scholarship for commitment to diversity, demonstrated leadership, and academic performance (USD 10,000) National Science Foundation Graduate Research Fellowship 201 Three-year fellowship awarded to ~15% of applicants nationally (USD 34,000/year) Stanford Neuro Tech Fellowship Declined early acceptance to three-year fellowship due to changing interests German Academic Exchange Service Scholarship Scholarship for conducting research abroad at the Universität zu Lübeck (EUR 1,250/month) Stanford Bio-X Undergraduate Research Fellowship Fellowship for conducting summer research (USD 7,000) Google igniteCS Grant Grant to direct and organize computer science educational workshop series in low-income communities (USD 4,000) National Science Foundation Undergraduate Research Fellowship Fellowship for conducting summer research (USD 6,400) Stanford Haas Education Partnerships Grant Grant to direct and organize educational outreach programs in low-income communities (USD 1,000 x2) PRESENTATIONS 1. Nguyen, C.M., Wang, H., Qi, L.S. Annual Biomedical Research Conference for Minority Students, Phoenix, AZ, Nov. 2017. *selected for Outstanding Poster Presentation in Engineering, Mathematics & Physics 2. Nguyen, C.M., Wang, H., Qi, L.S. Stanford Bio-X, Stanford, CA, Aug. 2017. 4. Nguyen, C.M., Wang, H., Qi, L.S. Stanford Bio-X, Stanford, CA, Aug. 2017. 4. Nguyen, C.M., Wang, H., Qi, L.S. Stanford Bio-X, Stanford, CA, Aug. 2017. 4. Nguyen, C.M., Plonowska, K., Sturzu, A.C., Wu, S.M. CIRM Creativity Awards, San Francisco, CA, Aug. 2014.	12220 (10111 0, 014111 10, 1112 1111 1112 1111	
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 Nguyen, C.M., Wang, H., Qi, L.S. Stanford Bio-X, Stanford, CA, Aug. 2017. Nguyen, C.M., Wang, H., Qi, L.S. NSF Research Experiences for Undergraduates, Stanford, CA, Aug. 2016. Nguyen, C.M., Plonowska, K., Sturzu, A.C., Wu, S.M. CIRM Creativity Awards, San Francisco, CA, Aug. 2014. Nguyen, C.M., Plonowska, K., Sturzu, A.C., Wu, S.M. Stanford Institutes of Medicine Research Program, Stanford, CA, Jul. 2014. *selected for best oral presentation 	· ·	AZ, Nov.
 Nguyen, C.M., Wang, H., Qi, L.S. NSF Research Experiences for Undergraduates, Stanford, CA, Aug. 2016. Nguyen, C.M., Plonowska, K., Sturzu, A.C., Wu, S.M. CIRM Creativity Awards, San Francisco, CA, Aug. 2014. Nguyen, C.M., Plonowska, K., Sturzu, A.C., Wu, S.M. Stanford Institutes of Medicine Research Program, Stanford, CA, Jul. 2014. *selected for best oral presentation 	2. Nguyen, C.M., Wang, H., Qi, L.S. Symposia of Undergraduate Research and Public Service, Stanford, CA, O	ct. 2017.
 Nguyen, C.M., Plonowska, K., Sturzu, A.C., Wu, S.M. CIRM Creativity Awards, San Francisco, CA, Aug. 2014. Nguyen, C.M., Plonowska, K., Sturzu, A.C., Wu, S.M. Stanford Institutes of Medicine Research Program, Stanford, CA, Jul. 2014. *selected for best oral presentation 	3. Nguyen, C.M., Wang, H., Qi, L.S. Stanford Bio-X, Stanford, CA, Aug. 2017.	
6. Nguyen, C.M., Plonowska, K., Sturzu, A.C., Wu, S.M. Stanford Institutes of Medicine Research Program, Stanford, CA, Jul. 2014. *selected for best oral presentation	4. Nguyen, C.M., Wang, H., Qi, L.S. NSF Research Experiences for Undergraduates, Stanford, CA, Aug. 2016.	
CA, Jul. 2014. *selected for best oral presentation	5. Nguyen, C.M., Plonowska, K., Sturzu, A.C., Wu, S.M. CIRM Creativity Awards, San Francisco, CA, Aug. 20	14.
ΓECHNICAL SKILLS		anford,
	TECHNICAL SKILLS	

Fields | Optics, Computational Imaging, Deep Learning, Computer Vision, Machine Learning, Microscopy **Programming** | Python, MATLAB

TEACHING EXPERIENCE

Oral Communication Tutor for Hume Center for Reading and Writing

March 2018 - December 2019

Tutored undergraduates and graduate students on oral presentations and thesis defenses.

TA for Stanford Institutes of Medicine Research Program

June 2019 – September 2019

Mentored high school students in creating biomedical prototypes.

Course Grader for Systems Physiology, BIOE 103

March 2019 – June 2019

Hosted weekly office hours and graded assignments.

OUTREACH

Program Director for Stanford STEM to SHTEM

February 2019 - Present

Press: Stanford Electrical Engineering (2019, 2020), Stanford News

Programs Officer for Stanford Future Advancers of Science and Technology

Project Lead for Google igniteCS at Stanford

Co-Founder of Catalist at Stanford

February 2017 – September 2020

February 2017 – May 2017

January 2016 – May 2017