

Connor Zhizhen Lin

Education

- 2020–Present **PhD in Computer Science**, *Stanford University*, Stanford, CA.
Advisors: Leonidas Guibas, Gordon Wetzstein
Stanford Graduate Fellow (David Cheriton)
- 2018–2019 **MSc in Computer Science**, *Carnegie Mellon University*, Pittsburgh, PA.
Advisor: Keenan Crane
Thesis: Periodic Conformal Parameterization
- 2015–2018 **BSc in Computer Science**, *Carnegie Mellon University*, Pittsburgh, PA.

Experience

- 2022 **PhD Research Intern**, *NVIDIA Research*, Toronto.
○ Currently researching one-shot neural avatars for 3D reconstruction and animation.
- 2021 **PhD Research Intern**, *Adobe Research*, London.
○ Developed NeuForm (NeurIPS 2022), a hybrid approach combining overfitting and general priors for neural scene editing.
- 2019–2020 **Software Engineer**, *Google*, Mountain View, CA.
○ Researched and prototyped end-to-end solutions for real-time depth inference and improved performance of depth inference in Portrait mode.
- 2018 **Software Engineering Intern**, *Google Daydream*, New York, NY.
○ Implemented a virtual reality plugin for Unity using C# and C++ that dynamically recognizes and morphs user virtual handwriting into text.
- 2017 **Software Engineering Intern**, *Yahoo!*, Sunnyvale, CA.

Skills Python, C++, MATLAB, Git

Research and Teaching

Research Interests

- Neural representations for 3D reconstruction, generation, and editing of human avatars.
- At Carnegie Mellon, I researched 3D mesh fabrication and geometry processing algorithms for quad meshing in my undergraduate and graduate research.

Teaching Experience

- Teaching Assistant (Fall 2017, Fall 2018, Spring 2019). Computer Graphics (15-462/15-662)
- Teaching Assistant (Spring 2017). Principles of Imperative Computation (15-122)

Publications

- NeurIPS 2022 **NeuForm: Adaptive Overfitting for Neural Shape Editing**. *C. Z. Lin, N. J. Mitra, G. Wetzstein, L. Guibas, P. Guerrero*
- ECCVW 2022 **3D GAN Inversion for Controllable Portrait Image Animation**. *C. Z. Lin*, D. B. Lindell*, E. R. Chan, G. Wetzstein*
(Learn3DG)

- CVPR 2022 **EG3D: Efficient Geometry-aware 3D Generative Adversarial Networks.** *E. R. Chan*, (Oral) C. Z. Lin*, M. A. Chan*, K. Nagano*, B. Pan, S. D. Mello, O. Gallo, L. Guibas, J. Tremblay, S. Khamis, T. Karras, G. Wetzstein*
- SIGGRAPH 2021 **ACORN: Adaptive Coordinate Networks for Neural Representation.** *J. N. P. Martel*, D. B. Lindell*, C. Z. Lin, E. R. Chan, M. Monteiro, G. Wetzstein*
- Masters Thesis **Periodic Conformal Parameterization.** *SCS Technical Report* Connor Zhizhen Lin

Talks

- July 2019 **Periodic Conformal Parameterization** *Pittsburgh, Pennsylvania* Masters Thesis Defense
- Dec 2017 **Real World Fabrication of 3D Meshes** *Pittsburgh, Pennsylvania* CMU SCS Undergraduate Research Showcase

Awards

- Stanford Graduate Fellowship (David Cheriton)
- 5x Dean's List
- University Honors

Service

- 2022 **SIGGRAPH Asia** *Reviewer*
- 2022 **Stanford Club Badminton** *President*
- 2021 **Stanford CS PhD Admissions** *Committee Member*
- 2021 **Stanford Club Badminton** *Financial Officer*