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*

ECCV 2022 (Learn3DG Workshop) **3D GAN Inversion for Controllable Portrait Image Animation.** ***C. Z. Lin****, D. B. Lindell*, E. R. Chan, G. Wetzstein*

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CVPR 2022 (Oral) **EG3D: Efficient Geometry-aware 3D Generative Adversarial Networks.** *E. R. Chan*, **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