

# Zhiqin Chen

Ph.D. student  
Simon Fraser University

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## Education

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Simon Fraser University (SFU), Canada *Sep 2019 - present*  
Ph.D. in Computing Science under the supervision of Prof. Hao (Richard) Zhang  
GPA: 4.33/4.33

Simon Fraser University (SFU), Canada *Sep 2017 - Aug 2019*  
M.Sc. in Computing Science under the supervision of Prof. Hao (Richard) Zhang  
GPA: 4.33/4.33

Shanghai Jiao Tong University (SJTU), China *Sep 2013 - June 2017*  
Bachelor of Science in Computer Science and Technology

## Awards and Honors

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Google PhD Fellowship, 2021, 2022  
NVIDIA Graduate Fellowship Finalist, 2021  
Best Student Paper Award, CVPR 2020  
Faculty of Applied Sciences Graduate Fellowship, 2018

## Publications

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Zhiqin Chen, Thomas Funkhouser, Peter Hedman, Andrea Tagliasacchi  
MobileNeRF: Exploiting the Polygon Rasterization Pipeline for Efficient Neural Field Rendering on Mobile Architectures  
ArXiv:2208.00277, 2022

Zhiqin Chen, Andrea Tagliasacchi, Thomas Funkhouser, and Hao Zhang  
Neural Dual Contouring  
SIGGRAPH (journal), 2022

Zhiqin Chen, Kangxue Yin, and Sanja Fidler  
AUV-Net: Learning Aligned UV Maps for Texture Transfer and Synthesis  
Computer Vision and Pattern Recognition (CVPR), 2022

Fenggen Yu, Zhiqin Chen, Manyi Li, Aditya Sanghi, Hooman Shayani, Ali Mahdavi-Amiri, and Hao Zhang  
CAPRI-Net: Learning Compact CAD Shapes with Adaptive Primitive Assembly  
Computer Vision and Pattern Recognition (CVPR), 2022

Zhiqin Chen and Hao Zhang  
Neural Marching Cubes  
SIGGRAPH Asia (journal), 2021

Zhiqin Chen, Vladimir G. Kim, Matthew Fisher, Noam Aigerman, Hao Zhang, and Siddhartha Chaudhuri  
DECOR-GAN: 3D Shape Detailization by Conditional Refinement  
Computer Vision and Pattern Recognition (CVPR), 2021

Zhiqin Chen, Andrea Tagliasacchi, and Hao Zhang

Learning Mesh Representations via Binary Space Partitioning Tree Networks

IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI), 2021

Kangxue Yin, Zhiqin Chen, Siddhartha Chaudhuri, Matthew Fisher, Vladimir G. Kim, Hao Zhang

COALESCE: Component Assembly by Learning to Synthesize Connections

International Conference on 3D Vision (3DV), 2020

Zhiqin Chen, Andrea Tagliasacchi, and Hao Zhang

BSP-Net: Generating Compact Meshes via Binary Space Partitioning

Computer Vision and Pattern Recognition (CVPR), 2020

CVPR 2020 Best Student Paper Award

Zili Yi, Zhiqin Chen, Hao Cai, Wendong Mao, Minglun Gong, Hao Zhang

BSD-GAN: Branched Generative Adversarial Network for Scale-Disentangled Representation Learning and Image Synthesis

IEEE Transactions on Image Processing (TIP), 2020

Zhiqin Chen, Kangxue Yin, Matthew Fisher, Siddhartha Chaudhuri, and Hao Zhang

BAE-NET: Branched Autoencoder for Shape Co-Segmentation

International Conference on Computer Vision (ICCV), 2019

Kangxue Yin, Zhiqin Chen, Hui Huang, Daniel Cohen-Or, Hao Zhang

LOGAN: Unpaired Shape Transform in Latent Overcomplete Space

SIGGRAPH Asia, 2019

Zhiqin Chen and Hao Zhang

Learning Implicit Fields for Generative Shape Modeling

Computer Vision and Pattern Recognition (CVPR), 2019

## Working experience

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Adobe Internship, May - Nov, 2020

NVIDIA Internship, May - Nov, 2021

Google Student Researcher, Nov 2021 - Jul 2022

## Teaching

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[TA] Spring 2020 - CMPT 743 G101 practices in visual computing II

[TA] Spring 2019 - CMPT 743 G101 practices in visual computing II

[TA] Fall 2017 - CMPT 120 D100 introduction to computing science and programming I

## Services

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[Reviewer] GMOD 2018, PG 2019, CVPR 2020, SIGGRAPH Asia 2020, PG 2020, TOG 2020, WACV 2021, ICME 2021, CVPR 2021, IJCAI 2021, IJCV 2021, TVCG 2021, ICCV 2021, 3DV 2021, CVPR 2022, EG 2022, IJCAI-ECAI 2022, SIGGRAPH 2022, SIGGRAPH Asia 2022