

# Ningna Wang

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## Education

### University of Texas at Dallas

PhD candidate in Computer Science

**Research direction:** computer graphics, geometry processing

Dallas, TX, USA

2019 - Current

### Carnegie Mellon University

MS in Computer Science

Pittsburgh, PA, USA

2014 - 2016

### Jilin University

BS in Computational Mathematics

Changchun, China

2010 - 2014

## Work Experience

### University of Texas at Dallas

Research Assistant

Teaching Assistant

- Advisor: Professor Xiaohu Guo

Dallas, TX, USA

2022, 2023 Summer

2020, 2021 Summer

### Booking.com B.V.

Senior Software Engineer

Core Software Engineer

Graduate Software Engineer

- Responsible for the continued operation and development of hotel availability search system

Amsterdam, Netherlands

Nov 2018 - July 2019

Aug. 2017 - Nov. 2018

Aug. 2016 - Aug. 2017

## Publications

Globally Consistent Normal Orientation for Point Clouds by Regularizing the Winding-Number Field [**Best Paper Award**]

Rui Xu, Zhiyang Dou, **Ningna Wang**, Shiqing Xin, Shuangmin Chen, Mingyan Jiang, Xiaohu Guo, Wenping Wang, Changhe Tu  
*ACM Transactions on Graphics (SIGGRAPH)* (2023). ACM New York, NY, USA, 2023

S3DS: Self-supervised Learning of 3D Skeletons from Single View Images

Jianwei Hu, **Ningna Wang**, Baorong Yang, Gang Chen, Xiaohu Guo, Bin Wang  
*to appear in ACM International Conference on Multimedia (MM 2023)* (2023). 2023

Computing Medial Axis Transform with Feature Preservation via Restricted Power Diagram [**Journal Track**]

**Ningna Wang**, Bin Wang, Wenping Wang, Xiaohu Guo  
*ACM Transactions on Graphics (SIGGRAPH Asia)* 41.6 (2022) pp. 1–18. ACM New York, NY, USA, 2022

IMMAT: Mesh Reconstruction from Single View Images by Medial Axis Transform Prediction

Jianwei Hu, Gang Chen, Baorong Yang, **Ningna Wang**, Xiaohu Guo, Bin Wang  
*Computer-Aided Design* (2022) p. 103304. Elsevier, 2022

A method of realistic leaves modeling based on point cloud

Yinghui Wang, Wen Hao, Gang Wang, Xiaojuan Ning, Jing Tang, Zhenghao Shi, **Ningna Wang**, Minghua Zhao  
*Proceedings of the 12th ACM SIGGRAPH International Conference on Virtual-Reality Continuum and Its Applications in Industry*, 2013

## Invited Talks

### Computing Medial Axis Transform with Feature Preservation via Restricted Power Diagram

ACM SIGGRAPH ASIA 2022

Digital Media Computations of Xiamen University

Daegu, South Korea, Dec 2022

Online, Nov 2022

## Review Service

Pacific Graphics IPC

IEEE Transactions on Visualization and Computer Graphics (TVCG)

2023

2022