

# Weinan Song

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## Summary

I am a fifth-year Ph.D. student at UCLA, supervised by Prof. Lei He in the ECE department and Prof. Yingnian Wu in the Statistics department. I became a Ph.D. candidate in the 2020 Spring. My research interest focuses on Efficient Data Exploitation in Deep Learning. Specifically, I work on efficient and scalable generative algorithms and feature representation learning, emphasizing models for data generation, model adaptation, and domain transfer. Furthermore, I am also interested in AI-driven applications, especially in Computer-Aided Diagnosis and Digital Humanity.

## Education

### University of California, Los Angeles

PhD student in Electrical & Computer Engineering

Los Angeles, USA

Sep. 2017 - Present

### Peking University

B.S. in Electrical Engineering & Computer Science Department

Beijing, China

Sep. 2013 - July. 2017

## Selected Publications

- **MDT-Net: Multi-domain Transfer by Perceptual Supervision for Unpaired Images in OCT Scan.**  
*Weinan Song, Gaurav Fotedar, Nima Tajbakhsh, Ziheng Zhou, and Xiaowei Ding* in Medical Image Computing and Computer Assisted Interventions (MICCAI), 2022 (Under Review)
- **Oral-3D: Reconstructing the 3D structure of Oral Cavity from Panoramic X-ray.**  
*Weinan Song, Yuan Liang, Jiawei Yang, Kun Wang, and Lei He* in Association for the Advancement of Artificial Intelligence (AAAI), 2021:566-573 (Poster)
- **T-Net: A Template-Supervised Network for Effective Feature Extraction in Biomedical Image Analysis.**  
*Weinan Song, Yuan Liang, Jiawei Yang, Kun Wang, and Lei He* in IEEE International Symposium on Biomedical Imaging (ISBI), 2021: 1924-1928 (Oral)
- **X2Teeth: 3D Teeth Reconstruction from a Single Panoramic Radiograph.**  
*Yuan Liang, Weinan Song, Jiawei Yang, Liang Qiu, Kun Wang, and Lei He* in Medical Image Computing and Computer Assisted Interventions (MICCAI), 2020: 400-409
- **CompareNet: Anatomical Segmentation Network with Deep Non-local Label Fusion.**  
*Yuan Liang, Weinan Song, JP Dym, Kun Wang, and Lei He* in Medical Image Computing and Computer Assisted Interventions (MICCAI), 2019:292-300

## Research&Working Experience

### Design Automation Laboratory, University of California, Los Angeles

Advised by Prof. Lei He

Sep. 2017 - Present

Research Assistant

### Google

Advised by Dr. Peng Wei

Summer 2021

Intern at Google Cloud

### VoxelCloud Inc

Advised by Dr. Nima Tajbakhsh

June. 2020 - June. 2021

Research Intern

### Center for Energy-Efficient Computing and Applications, Peking University

Advised by Prof. Guangyu Sun

Sep. 2016 - July. 2017

Research Assistant

### Computer Systems Laboratory, Cornell University

Advised by Prof. Zhiru Zhang

June. 2016 - Sep. 2016

Research Intern

## Honors

### ECE Department Fellowship

University of California, Los Angeles

2017

### Youth Fellowship

Peking University

2016

### Panasonic Fellowship

Peking University

2015