

HAN ZHANG

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EDUCATION

The Chinese University of Hong Kong, Hong Kong Department of Mathematics	<i>August 2018 - July 2020</i> Master of Philosophy
Sun Yat-Sen University, Guangzhou School of Mathematics	<i>August 2014 - June 2018</i> Bachelor of Science

RESEARCH INTEREST

Computational Geometry Scientific Computing Geometry Processing

ACADEMIC EXPERIENCE

The Key Laboratory of Computational Science of Guangdong Province <i>Part-Time Research Assistant</i>	<i>September 2016 - April 2018</i> <i>Guangzhou, CHINA</i>
· Research on medical images supervised by Prof.Ying JIANG. Especially on finding a new approach for CT reconstruction through wavelet basis.	
Faculty of Mathematics, The Chinese University of Hong Kong <i>Research Assistant</i>	<i>August 2018 - July 2020</i> <i>Hong Kong, CHINA</i>
· Research on computational geometry and deep learning. Supervised by Lok Ming LUI	
Department of Computer Science, Shenzhen University <i>Research Assistant</i>	<i>July 2020 - June 2021</i> <i>Shenzhen, CHINA</i>
· Research on scene reconstruction and path planning. Work with Hui Huang	
Department of Computer Science, Shenzhen University <i>Research Assistant</i>	<i>July 2021 - Present</i> <i>Hong Kong, CHINA</i>
· Research on scene reconstruction and path planning. Work with Hui Huang	

PROJECTS

Quasi-Conformal Network <i>with</i> Lok Ming LUI	<i>October 2019 - September 2020</i> The Chinese University of Hong Kong
We build a deep neural network based on quasi-conformal theories, called QC-net, to obtain diffeomorphic registration maps between corresponding data. QC-Net incorporates data information from training data. As such, QC-net can output a meaningful registration map based on the known data structure learn from the network.	
Continuous Path Planning for Reconstruction <i>with</i> Hui HUANG	<i>July 2020 - June 2021</i> Shenzhen University
We introduce the first path-oriented drone trajectory planning algorithm, which performs continuous (i.e., dense) image acquisition along an aerial path and explicitly factors path quality into an optimization along with scene reconstruction quality.	
Shape Average and Mean Prior Segmentation <i>with</i> Lok Ming LUI	<i>July 2021 - Present</i> The Chinese University of Hong Kong
TBD	

PUBLICATIONS

Continuous Aerial Path Planning for 3D Urban Scene Reconstruction. Han Zhang , Yucong Yao, Ke Xie, Chi-Wing Fu, Hao Zhang, Hui Huang. (<i>Siggraph Asia 2021</i>).
Quasi-Conformal Neural Network (QC-net) with Applications to Shape Matching. Han Zhang (<i>MPhil thesis</i>)

ACADEMIC ACHIEVEMENTS

Excellent Student Scholarship of Sun Yat-Sen University	<i>First Class</i>
Excellent Thesis of Sun Yat-Sen University	<i>Outstanding</i>
China Undergraduate Mathematical Contest in Modeling	<i>Second Prize</i>
National High School Mathematics League	<i>Second Prize</i>

EXTRA-CURRICULAR

Institute of Computing Technology, Chinese Academy of Sciences <i>Outstanding Student of 'Computing Future' summer training class</i>	<i>July 2017</i> <i>Beijing, CHINA</i>
·	
Department of Mathematics, The Chinese University of Hong Kong <i>Visiting Student</i>	<i>October 2017</i> <i>Hong Kong, CHINA</i>
·	
Department of Mathematics, The Chinese University of Hong Kong <i>Teaching Assistant</i>	<i>August 2018 - August 2020</i> <i>Hong Kong, CHINA</i>
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TECHNICAL STRENGTHS

Programming Languages	C++, MATLAB, PYTHON, CGAL...
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