Jing REN

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EDUCATION

KAUST, Visual Computing Center (VCC)

PhD in Computer Science; Supervised by Prof. Peter Wonka and Prof. Maks Ovsjanikov

Thesis Shape Matching and Map Space Exploration via Functional Maps

University of Oxford, St Edmund Hall

Master of Science in Mathematical and Computational Finance with distinction

Thesis Ensemble Learning for Financial Time Series Forecasting

Zhejiang University (ZJU), Chu Kochen Honors College

Bachelor of Science in Mathematics and Applied Mathematics; GPA: 3.88/4.0 (top 5%)

Oxford, United Kingdom

Sep 2014 - Jul 2015

Jeddah, Saudi Arabia

Aug 2015 - Jul 2021

Zhejiang, China Aug 2010 - Jun 2014

PUBLICATION

1 Intuitive and Efficient Roof Modeling for Reconstruction and Synthesis

Jing Ren, Biao Zhang, Bojian Wu, Jianqiang Huang, Lubin Fan, Maks Ovsjanikov, Peter Wonka ACM Transactions on Graphics (Proc. SIGGRAPH Asia), 2021

2 Discrete Optimization for Shape Matching

Jing Ren, Simone Melzi, Peter Wonka, Maks Ovsjanikov Computer Graphics Forum (Proc. SGP), 2021

3 Fast Sinkhorn Filters: Using Matrix Scaling for Non-Rigid Shape Correspondence with Functional Maps

Gautam Pai, Jing Ren, Simone Melzi, Peter Wonka, Maks Ovsjanikov Proc. IEEE Conference on Computer Vision and Pattern Recognition (CVPR), 2021

4 Geometric analysis of shape variability of lower jaws of prehistoric humans

Jing Ren, Peter Wonka, Gowtham Harihara, Maks Ovsjanikov L'Anthropologie, 2020

5 MapTree: Recovering Multiple Solutions in the Space of Maps

Jing Ren, Simone Melzi, Maks Ovsjanikov, Peter Wonka ACM Transactions on Graphics (Proc. SIGGRAPH Asia), 2020

6 MGCN: Descriptor Learning using Multiscale GCNs

Yiqun Wang, Jing Ren, Dong-Ming Yan, Jianwei Guo, Xiaopeng Zhang, Peter Wonka ACM Transactions on Graphics (Proc. SIGGRAPH), 2020

7 Consistent ZoomOut: Efficient Spectral Map Synchronization

Ruqi Huang, Jing Ren, Peter Wonka, Maks Ovsjanikov Computer Graphics Forum (Proc. SGP), 2020

8 ZoomOut: Spectral Upsampling for Efficient Shape Correspondence

Simone Melzi*, <u>Jing Ren</u>*, Emanuele Rodolà, Abhishek Sharma, Peter Wonka, Maks Ovsjanikov *ACM Transactions on Graphics (Proc. SIGGRAPH Asia)*, 2019 (* equal contribution)

9 Structured Regularization of Functional Map Computations

Jing Ren, Mikhail Panine, Peter Wonka, Maks Ovsjanikov Computer Graphics Forum (Proc. SGP), 2019

10 Continuous and Orientation-preserving Correspondence via Functional Maps

Jing Ren, Adrien Poulenard, Peter Wonka, Maks Ovsjanikov ACM Transactions on Graphics (Proc. SIGGRAPH Asia), 2018

11 Joint Graph Layouts for Visualizing Collections of Segmented Meshes

Jing Ren, Jens Schneider, Maks Ovsjanikov, Peter Wonka IEEE Transactions on Visualization and Computer Graphics (TVCG), 2017

RESEARCH INTERNSHIP

Tencent, AI Lab Shenzhen, China July 2021 - Dec 2021

Advised by Dr. Linchao Bao, Dr. Xuefei Zhe, Dr. Di Kang

Alibaba, DAMO Academy, AI center (City Brain) Zhejiang, China Advised by Dr. Lubin Fan July 2020 - Jun 2021

École Polytechnique, Laboratoire d'Informatique (LIX)

Advised by Prof. Maks Ovsjanikov Jun - Aug 2017, 2018, 2019

AWARDS & HONOURS

CEMSE Student Research Excellence Award KAUST, 2020 Best Paper Award honorable mention Symposium on Geometry Processing, 2019 Accomplished Honors Program of Science & Engineering Zhejiang Univeristy, 2014 Scholarship for Outstanding Merits (top 8%) Zhejiang University, 2011, 2012, 2013 Excellent Student Awards (top 3%) Zhejiang University, 2011

SKILLS & ACTIVITIES

Programming Skills MATLAB, Python, C++, R

Languages Mandarin (Native); English (Fluent); Russian (Beginner)

Voluntary Activities

• Translator in Coursera's Global Translator Community Sep 2016 - Present

Student Volunteer of ACM MultiMedia

 Paper reviewer of IEEE Computer Graphics and Applications Iun 2018 Jul 2018

Student Volunteer of The Symposium on Geometry Processing 2018

 Volunteered at China Knives, Scissors and Swords Museum Oct 2012 - Jun 2014

SCIENTIFIC REFEREES

Prof. Peter Wonka

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Prof. Maks Ovsjanikov

Full Professor, École Polytechnique

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Palaiseau, France

Oct 2020

Prof. Helmut Pottmann

Full Professor, Visual Computing Center, KAUST

- https://www.kaust.edu.sa/en/study/faculty/helmut-pottmann