Jing REN

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EDUCATION

KAUST, Visual Computing Center (VCC)   *Jeddah, Saudi Arabia*

PhD candidate in Computer Science; GPA: 3.92/4.0; Supervised by Prof. **Peter Wonka**   *Aug 2015 - Present*

<u>Relative Coursework</u> Introduction to Computer Vision, Special Topics in Machine Learning, Computer Graphics, Geometry Processing, Numerical Optimization...

University of Oxford, St Edmund Hall   *Oxford, United Kingdom*

Master of Science in Mathematical and Computational Finance with **distinction**   *Sep 2014 - Jul 2015*

<u>Relative Coursework</u> Machine Learning, PDE, Statistics, Optimization, Numerical Methods, Stochastic Calculus, C++...

<u>Thesis</u> Ensemble Learning for Financial Time Series Forecasting

Zhejiang University (ZJU), Chu Kochen Honors College   *Zhejiang, China*

*Bachelor of Science in Mathematics and Applied Mathematics; GPA: 3.88/4.0 (**top 5%**)*   *Aug 2010 - Jun 2014*

<u>Relative Coursework</u> Mathematical Analysis, Linear Algebra, Real Analysis, Complex Analysis, Functional Analysis, ODE, PDE, Differential Geometry, Combinatorial Optimization, Optimization Algorithms...

PUBLICATION

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

Gautam Pai, <u>Jing Ren</u>, Simone Melzi, Peter Wonka, Maks Ovsjanikov

Proc. IEEE Conference on Computer Vision and Pattern Recognition (CVPR), 2021   [code]

2 **Geometric analysis of shape variability of lower jaws of prehistoric humans**

<u>Jing Ren</u>, Peter Wonka, Gowtham Harihara, Maks Ovsjanikov

L'Anthropologie, 2020   [code] [paper]

3 **MapTree: Recovering Multiple Solutions in the Space of Maps**

<u>Jing Ren</u>, Simone Melzi, Maks Ovsjanikov, Peter Wonka

ACM Transactions on Graphics (Proc. SIGGRAPH Asia), 2020   [code] [paper]

4 **MGCN: Descriptor Learning using Multiscale GCNs**

Yiqun Wang, <u>Jing Ren</u>, Dong-Ming Yan, Jianwei Guo, Xiaopeng Zhang, Peter Wonka

ACM Transactions on Graphics (Proc. SIGGRAPH), 2020   [code] [paper]

5 **Consistent ZoomOut: Efficient Spectral Map Synchronization**

Ruqi Huang, <u>Jing Ren</u>, Peter Wonka, Maks Ovsjanikov

Computer Graphics Forum (Proc. SGP), 2020   [code] [paper]

6 **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)   [slides] [code] [paper]

7 **Structured Regularization of Functional Map Computations**

<u>Jing Ren</u>, Mikhail Panine, Peter Wonka, Maks Ovsjanikov

Computer Graphics Forum (Proc. SGP), 2019   [slides] [code] [paper]

8 **Continuous and Orientation-preserving Correspondence via Functional Maps**

<u>Jing Ren</u>, Adrien Poulenard, Peter Wonka, Maks Ovsjanikov

ACM Transactions on Graphics (Proc. SIGGRAPH Asia), 2018   [slides] [code] [paper]

9 **Joint Graph Layouts for Visualizing Collections of Segmented Meshes**
<u>Jing Ren</u>, Jens Schneider, Maks Ovsjanikov, Peter Wonka
IEEE Transactions on Visualization and Computer Graphics (TVCG), 2017   [slides] [code] [paper]

RESEARCH INTERNSHIP

Alibaba, DAMO Academy, AI center (City Brain)   *Zhejiang, China*
Supervised by Dr. Chang Zhou and Dr. Lubin Fan   *July 2020 - Jun 2021*

École Polytechnique, Laboratoire d'Informatique (LIX)   *Palaiseau, France*
Supervised 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*   *Oct 2020*
- Paper reviewer of *IEEE Computer Graphics and Applications*   *Jun 2018*
- Student Volunteer of *The Symposium on Geometry Processing 2018*   *Jul 2018*
- Volunteered at *China Knives, Scissors and Swords Museum*   *Oct 2012 - Jun 2014*

SCIENTIFIC REFEREES

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