Prof. Yun Zhang

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EDUCATION

09/2009 - 03/2013   Ph.D. Computer Science and Technology, Zhejiang University

　　Dissertation: Research on Interactive Editing and Blending of Visual Media
　　Advisor: Prof. Ruo-feng Tong

07/2010 - 08/2012   Visiting Scholar, Graphics and Geometric Computing Group, Tsinghua University

　　Advisor: Prof. Shi-Min Hu

09/2006 - 06/2009   M.S. Computer Science, Hangzhou Dianzi University

　　Advisor: Prof. Guo-Jun Dai

09/2002 - 06/2006   B.E. Software Engineering, Hangzhou Dianzi University

WORK EXPERIENCE

12/2022 - now　　　Professor, Vice Dean   **Communication University of Zhejiang, China**

12/2015 - 12/2022 Associate Professor   **Communication University of Zhejiang, China**

04/2013 - 12/2015 Assistant Professor   **Communication University of Zhejiang, China**

03/2009 - 08/2009 Software Engineering   **ECI TELECOM CHINA**

08/2008 - 10/2008 Engineering Intern   **Nokia Networks**

TEACHING

Advanced Programming Language (undergraduate, 2016 to now)

Data Structure (undergraduate, 2015 to now)

Computer Graphics (undergraduate, 2022, 2023)

Machine Learning (undergraduate, 2022, 2023)

ACADEMIC VISITING EXPERIENCE

12/2022 - 10/2023 Academic Visitor   **School of Computer Science and Informatics, Cardiff University, UK**

07/2019 - 08/2019 Academic Visitor   **School of Computer Engineering and Science, Victoria University of Wellington, New Zealand**

02/2018 - 08/2018 Academic Visitor   **School of Computer Science and Informatics, Cardiff University, UK**

RESEARCH GRANTS

Zhejiang Provincial Natural Science Foundation of China, 100,000 RMB, 2022.1-2024.12, PI

Zhejiang Provincial Natural Science Foundation of China, 100,000 RMB, 2019.1-2021.12, PI

National Natural Science Foundation of China, 190,000 RMB, 2017.1-2019.12, PI

Zhejiang Science and Technology Planning Project, 200,000 RMB, 2015-2016.12, PI

Zhejiang Provincial Natural Science Foundation of China, 80,000 RMB, 2014.1-2016.12, PI

ACADEMIC ACTIVITIES

International Program Committee member, Pacific Graphics 2020-2025, Computer Graphics International 2023, Computational Visual Media 2021-2025, etc.

Judge of Shing-Tung Yau High School Science Award, 2019-now

International Journal and Conference Reviewer, IEEE Transactions on Visualization and Computer Graphics, Pacific Graphics, EuroGraphics, The Visual Computer, Computers & Graphics Journal of Computer Science and Technology, Multimedia Tools and Applications Journal, Computational Visual Media Journal.

Member of Asia Graphics, 2021-now.

Senior member of China Computer Federation(CCF), 2023-now.

Director of member of Hangzhou Computer Federation, 2023-now.

TALKS

RecStitchNet: Learning to Stitch Images with Rectangular Boundaries, 12-th International Conference on Computational Visual Media, Wellington, New Zealand, 10-12 Apr. 2024.

Content Manipulation of 360-degree Panoramas on the Sphere, Seminar of Visual Computing Group, Cardiff University, UK, 19 Apr. 2023.

3D Corrective Nose Reconstruction from a Single Image, 9-th Computational Visual Media Conference, Qingdao, China, 21-23, Apr. 2021.

Stereoscopic Image Stitching with Rectangular Boundaries, 36-th Computer Graphics International, Calgary, Albert, Canada, 17-20, June 2019.

Stereoscopic Image Analysis and Editing, Computational Media Innovation Centre (CMIC), Victoria University of Wellington, Wellington, New Zealand, 20 July 2019.

Efficient Video Cutout by Paint Selection, 3-rd International Conference on Computational Visual Media, Beijing, China, 16-17 Apr. 2015.

AWARDS

First Prize of Zhejiang Radio and Television Science and Technology Innovation Project, 2015, 2019, 2021.

"Outstanding Reviewer Reward" of Journal of Computer-Aided Design & Computer Graphics, 2025.

"Outstanding Reviewer Reward" of Computational Visual Media Journal, 2020.

Excellent Graduation Thesis Instructor, 2019

PUBLICATIONS

(* Corresponding Author)

Robust and Enhanced 360° Visual Tracking based on Dynamic Gnomonic Projection
Hao Peng, **Yun Zhang**, Fang-Lue Zhang.
Journal of the Royal Society of New Zealand , 2025.

StabStitch++: Unsupervised Online Video Stitching with Spatiotemporal Bidirectional Warps
Lang Nie, Chunyu Lin, Kang Liao, **Yun Zhang**, Shuaicheng Liu, Rui Ai, Yao Zhao.
IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI) , 2025.

Eliminating Warping Shakes for Unsupervised Online Video Stitching
Lang Nie, Chunyu Lin, Kang Liao, **Yun Zhang**, Shuaicheng Liu, Rui Ai, Yao Zhao.
ECCV (4), 2024: 390-407.

RecStitchNet: Learning to Stitch Images with Rectangular Boundaries
Yun Zhang*, Yu-Kun Lai, Lang Nie, Fang-Lue Zhang, Lin Xu.
Computational Visual Media Journal, 2024, 10(4): 687—703.

Stitching Videos From Unstructured Camera Arrays With Rectangular Boundaries
Ruifang Pan, **Yun Zhang***, Lin Xu, Aihong Qin, Hui Du.
IEEE ACCESS, 2024, 12: 21777–21786.

Domain-Specific Modeling and Semantic Alignment for Image-Based 3D Model Retrieval
Dan Song, Xue-Jing Jiang, Yue Zhang, Fang-Lue Zhang, Yao Jin, **Yun Zhang***.
Computers & Graphics, 2023, 115: 25–34.

A variational approach for feature-aware B-spline curve design on surface meshes
Rongyan Xu, **Yun Zhang**, Fang-Lue Zhang, Zhe Zhu, Yao Jin.
The Visual Computer, 2023, 39: 3767–3781.

A Survey on 360-degree Images and Videos in Mixed Reality: Algorithms and Applications
Fang-Lue Zhang, Junhong Zhao, **Yun Zhang**, Stefanie Zollmann.
Journal of Computer Science and Technology, 2023, 38(3): 473–491.

Symmetrization of Quasi-regular Patterns with k-Uniform Tilings of Regular Polygons
Zhengzheng Yin, Zhijian Fang, **Yun Zhang**, Huaxiong Zhang, Lili He, Yao Jin.
Computational Visual Media Journal, 2023, accepted.

Sphere Face Model: A 3D Morphable Model with Hypersphere Manifold Latent Space using Joint 2D/3D Training
Diqiong Jiang, Yiwei Jin, Fang-Lue Zhang, Zhe Zhu, **Yun Zhang**, Ruofeng Tong, Min Tang
Computational Visual Media Journal, 2023, 9(2): 279–296.

Fast Edit Propagation for 360 Degree Panoramas using Function Interpolation
Yun Zhang*, Fang-Lue Zhang, Zhe Zhu, Lidong Wang, Yao Jin
IEEE ACCESS, 2022, 10: 43882-43894.

3D Corrective Nose Reconstruction from a Single Image
Yanlong Tang, **Yun Zhang***, Xiaoguang Han, Fang-Lue Zhang,Yu-Kun Lai, Ruo-Feng Tong
Computational Visual Media Journal, 2022, 8(2): 225-237.

Efficient Propagation of Sparse Edits on 360◦ Panoramas
Yun Zhang*, Fang-Lue Zhang, Yu-Kun Lai, Zhe Zhu
Computer & Graphics, 2021, 96: 61-70.

Content-Preserving Image Stitching with Piecewise Rectangular Boundary Constraints
Yun Zhang*, Yu-Kun Lai, Fang-Lue Zhang
IEEE Transactions on Visualization and Computer Graphics, 2021, 27(7): 3198-3212.

Stereoscopic Image Stitching with Rectangular Boundaries
Yun Zhang*, Yu-Kun Lai, Fang-Lue Zhang
The Visual Computer, 2019, 35(6-8): 823-835.

Data-driven 3D Human Body Customization with a Mobile Device
Dan Song, Ruofeng Tong, Jiang Du, **Yun Zhang**, Yao Jin
IEEE Access, 2018, 6: 27939-27948.

Robust Region Duplication Detection on Log-polar Domain using Band Limitation
Yue Yuan, **Yun Zhang**(Joint First Author), Shuang Chen, Hong Wang
Arabian Journal for Science and Engineering, 2017, 42: 559-565

Incorporating With Color Improves Salient Object Detection
Yan-Long Tang, Ruofeng Tong, Min Tang, **Yun Zhang**
The Visual Computer, 2016, 32(1): 111-121

Efficient Video Cutout by Paint Selection
Yun Zhang*, Yan-Long Tang, Ke-Li Cheng
Journal of Computer Science and Technology, 2015, 30(3): 467-477.

Image copy-and-paste with optimized gradient
Yun Zhang*, Jian Ling, Xiaohong Zhang, Hao Xie
The Visual Computer, 2014, 30(10): 1169-1178 (Computational Visual Media 2013)

StereoPasting: Interactive Composition in Stereoscopic Images
Ruo-Feng Tong, **Yun Zhang**, Ke-Li Cheng
IEEE Transactions on Visualization and Computer Graphics, 2013, 19(8): 1375-1385

Video Brush: A Novel Interface for Efficient Video Cutout
Ruo-Feng Tong, **Yun Zhang***, Meng Ding
Computer Graphics Forum, 2011, 30(7): 2049-2057 (Pacific Graphics 2011)

Environment-Sensitive cloning in images
Yun Zhang, Ruofeng Tong
The Visual Computer, 2011, 27(6-8): 739-748 (Computer Graphics International 2011)

ACADEMIC REFEREE

Yu-Kun Lai Professor of Cardiff University, UK, **Email:** Yukun.Lai@cs.cardiff.ac.uk

Fang-Lue Zhang Senior Lecture of Victoria University of Wellington, New Zealand, **Email:** fanglue.zhang@vuw.ac.nz

Paul Rosin Professor of Cardiff University, UK, **Email:** RosinPL@cardiff.ac.uk