

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 Society of Image and Graphics(CSIG), 2025-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, Alberta, 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