

Miao Wang

Room 3-524, FIT Building, Tsinghua University, Beijing, China
wm.thu@qq.com • <http://miaowang.me>

RESEARCH INTERESTS

Graphics meets Vision: Interactive Image and Video Editing, Data-driven Visual Media Computing and Deep Learning in Graphics.

CURRENT POSITION

Tsinghua University, Postdoc Research Fellow Jul 2016 – Present

- Department of Computer Science and Technology
 - Project: Data-driven Visual Media Analysis and Processing
 - Supervisor: Prof. Shi-Min Hu
 - Focus: Interactive Video/Image Editing, Deep Learning Methodology in Graphics

EDUCATION

Tsinghua University, Beijing, China Sep 2011 – Jul 2016

- Ph.D. in Computer Science and Technology
 - Thesis: Scene analysis-based Visual Media Creation and Editing
 - Supervisor: Prof. Shi-Min Hu
 - Focus: Content-aware Image/Video Editing, Data-driven Visual Media Creation

Xidian University, Xi'an, Shaanxi, China Sep 2007 – Jul 2011

- B.S. in Computer Science

RESEARCH EXPERIENCE

Interdisciplinary Center Herzliya, Israel, Visitor May 2017

- Department of Computer Science
 - Project: Selfie Video Editing with Hand-held Camera
 - Supervisor: Prof. Ariel Shamir
 - Focus: Multiple Video Analysis, Video Stabilization, Video Stitching

Cardiff University, Joint PhD Program from CSC Aug 2013 – Feb 2014

- School of Computer Science and Informatics
 - Project: Data-driven Image Extrapolation Using Graph Matching
 - Supervisors: Prof. Ralph R. Martin and Dr. Yu-Kun Lai
 - Focus: Data-driven Image Editing

PUBLICATIONS

UNDER REVIEW

- [1] **M. Wang**, A. Shamir, G.-Y. Yang, J.-K. Lin, G.-W. Yang, S.-P. Lu and S.-M. Hu, “BiggerSelfie: Selfie Video Expansion with Hand-held Camera”, *Submitted to IEEE TIP 2017*.

PUBLISHED OR ACCEPTED

- [6] **M. Wang**, J.-B. Liang, S.-H. Zhang, S.-P. Lu, A. Shamir and S.-M. Hu, “Hyper-lapse Creation from Multiple Spatially-overlapping Videos”, *Accepted to IEEE Transactions on Image Processing, 2017. (CCF-A, Impact Factor: 4.828)*
- [5] **M. Wang**, X.-J. Zhang, J.-B. Liang, S.-H. Zhang and R. R. Martin, “Comfort-driven Disparity Adjustment for Stereoscopic Video”, *Computational Visual Media, 2016, 2(1), pages 3-17. Best Paper Honorable Mention Award.*
- [4] **M. Wang**, F.-L. Zhang and S.-M. Hu “Data-driven Image Analysis and Editing: A Survey” (in Chinese), *Journal of Computer-Aided Design & Computer Graphics, 2015(11)*.
- [3] **M. Wang**, Y.-K. Lai, Y. Liang, R. R. Martin and S.-M. Hu “BiggerPicture: Data-Driven Image Extrapolation Using Graph Matching”, *ACM Transactions on Graphics, 33(6), 2014, Proceedings of SIGGRAPH Asia 2014., (CCF-A, Impact Factor: 4.096)*
- [2] S.-M. Hu, F.-L. Zhang, **M. Wang**, R. R. Martin and J. Wang, “PatchNet: A Patch-based Image Representation for Interactive Library-driven Image Editing”, *ACM Transactions on Graphics, 32(6), 2013, Proceedings of SIGGRAPH Asia 2013. (CCF-A, Impact Factor: 4.096)*

- [1] F.-L. Zhang, **M. Wang** and S.-M. Hu, “Aesthetic Image Enhancement by Dependence-Aware Object Re-Composition”, *IEEE Transactions on Multimedia*, 2013, 15(7). (**CCF-B, Impact Factor: 3.509**)

**TEACHING
EXPERIENCE**

- Teaching Assistant of Course *Fundamental of Computer Graphics*–Undergraduate. Spring, 2013

**PROFESSIONAL
ACTIVITIES**

- Reviewer of **SIGGRAPH 2017, ICIG 2017, CVM 2013-2017, CCCV 2017**
- Committee of **Workshop on Vision meets Graphics 2017**

INVITED TALKS

- PatchNet: A Patch-based Image Representation for Interactive Library-driven Image Editing
 - Inviter: VLunch, Visual Computing Group, Cardiff University Nov 2013
- Data-driven Image Extrapolation
 - Inviter: MSRA PhD Forum Sep 2014

**HONORS &
AWARDS**

- *Best Paper Honorable Mention Award* of Computational Visual Media, Springer. Apr 2017
- Excellent PhD Graduate of Department of Computer Science and Technology, Tsinghua U. Jul 2016
- Sohu Scholarship, Tsinghua U. Jul 2015
- Ranked 36th in World Finals of the 34th ACM International Collegiate Programming Contest (ICPC), Harbin, China. Jan 2010
- Gold Medal in Asian Regional Contest of the 34th ACM International Collegiate Programming Contest (ICPC), Hefei, China. Jan 2009
- Silver Medal in Asian Regional Contest of the 34th ACM International Collegiate Programming Contest (ICPC), Shanghai, China. Jan 2009

[Last Update: 2017-09-09]