

Qingnan Fan

PERSONAL DATA

NAME IN CHINESE: 樊庆楠
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INTERESTS: Computer Vision, Computer Graphics

WORK EXPERIENCE

MAY. 2021 - NOW Senior Researcher, Visual Computing Group, Tencent AI Lab

EDUCATION

SEP. 2019 - MAR. 2021 PostDoc, Computer Science, Stanford University
Advisor: Prof. Leonidas Guibas
SEP. 2014 - JUN. 2019 Ph.D., Computer Science and Technology, Shandong University
Advisor: Prof. Baoquan Chen
SEP. 2010 - JUL. 2014 B.E., Software Engineering, Shandong University

RESEARCH EXPERIENCES

APR. 2018 - AUG. 2019	Research Intern in Advanced Innovation Center for Future Visual Entertainment (AICFVE), Beijing Film Academy Supervisor: Prof. Baoquan Chen.
AUG. 2018 - OCT. 2018	Visiting Student in Cambridge Image Analysis group, Cambridge University. Collaborator: Prof. Carola-Bibiane Schönlieb.
SEP. 2016 - MAR. 2018	Research Intern in Microsoft Research Asia (MSRA) Collaborator: Xin Tong, Gang Hua, David Wipf and Jiaolong Yang.
APR. 2015 - MAY 2015	Visiting Student in Tel Aviv University Collaborator: Prof. Daniel Cohen-Or.

OCT. 2014 - NOV. 2014

Visiting Student in Hebrew University of Jerusalem

Collaborator: Prof. Dani Lischinski.

SELECTED PUBLICATIONS

- 2022: Multi-Robot Active Mapping via Neural Bipartite Graph Matching.
Kai Ye*, Siyan Dong*, **Qingnan Fan**, He Wang, Li Yi, Fei Xia, Jue Wang, Baoquan Chen..
CVPR, 2022.
- 2022: ADeLA: Automatic Dense Labeling with Attention for Viewpoint Shift in Semantic Segmentation.
Yanchao Yang*, Hanxiang Ren*, He Wang, Bokui Shen, **Qingnan Fan**, Youyi Zheng, C. Karen Liu, Leonidas Guibas..
CVPR, 2022 (ORAL).
- 2021: CAPTRA: CAteGory-level Pose Tracking for Rigid and Articulated Objects from Point Clouds.
He Wang*, Yijia Weng*, Qiang Zhou, Yuzhe Qin, Yueqi Duan, **Qingnan Fan**, Baoquan Chen, Hao Su, Leonidas Guibas.
ICCV, 2021 (ORAL).
- 2021: Contrastive Multimodal Fusion with TupleInfoNCE.
Yunze Liu, **Qingnan Fan**, Shanghang Zhang, Hao Dong, Thomas Funkhouser, Li Yi..
ICCV, 2021.
- 2021: Robust Neural Routing Through Space Partitions for Camera Relocalization in Dynamic Indoor Environments.
Siyan Dong*, **Qingnan Fan***, He Wang, Ji Shi, Li Yi, Thomas Funkhouser, Baoquan Chen, Leonidas Guibas.
CVPR, 2021 (ORAL).
- 2021: A General Decoupled Learning Framework for Parameterized Image Operators.
Qingnan Fan*, Dongdong Chen*, Lu Yuan, Gang Hua, Nenghai Yu, Baoquan Chen.
TPAMI, 2021.
- 2020: Generative 3D Part Assembly via Dynamic Graph Learning.
Jialei Huang*, Guanqi Zhan*, **Qingnan Fan**, Kaichun Mo, Lin Shao, Baoquan Chen, Leonidas Guibas, Hao Dong.
NeurIPS, 2020.
- 2020: Controllable Image Processing via Adaptive FilterBank Pyramid.

Dongdong Chen, **Qingnan Fan**, Jing Liao, Angelica Aviles-Rivero, Lu Yuan, Nenghai Yu, Gang Hua.
TIP, 2020.

- 2019: Mirror, Mirror, on the Wall, Who's Got the Clearest Image of Them All? - A Tailored Approach to Single Image Reflection Removal.
Daniel Heydecker*, Georg Maierhofer*, Angelica Aviles-Rivero*, **Qingnan Fan**, Dongdong Chen, Carola-Bibiane Schönlieb, Sabine Süsstrunk.
TIP, 2019.
- 2018: Image Smoothing via Unsupervised Learning.
Qingnan Fan, Jiaolong Yang, David Wipf, Baoquan Chen, Xin Tong.
SIGGRAPH Asia, 2018.
- 2018: Decouple Learning for Parameterized Image Operators.
Qingnan Fan*, Dongdong Chen*, Lu Yuan, Gang Hua, Nenghai Yu, Baoquan Chen.
ECCV, 2018.
- 2018: Revisiting Deep Intrinsic Image Decompositions.
Qingnan Fan, Jiaolong Yang, Gang Hua, Baoquan Chen, David Wipf.
CVPR 2018, (Oral).
- 2017: A Generic Deep Architecture for Single Image Reflection Removal and Image Smoothing.
Qingnan Fan, Jiaolong Yang, Gang Hua, Baoquan Chen, David Wipf.
ICCV, 2017.
- 2015: JumpCut: Non-Successive Mask Transfer and Interpolation for Video Cutout.
Qingnan Fan, Fan Zhong, Dani Lischinski, Daniel Cohen-Or, Baoquan Chen.
SIGGRAPH Asia, 2015.

TALKS

- APR. 2022 | Active 3D scene understanding and its applications
“三维视觉与智能图形” 前沿论坛, 图图名师讲堂
- OCT. 2021 | Visual Localization
Embodied AI Workshop, Valse
- JAN. 2019 | Deep Learning in Computational Photography
USC ICT, UW Reality Lab, Berkeley, Stanford, Google, MSR 2019, US
- DEC. 2018 | Deep Learning for Single Image Artifact Removal
ACCV Tutorial 2018, Australia
- DEC. 2018 | Image Smoothing via Unsupervised Learning
SIGGRAPH Asia 2018, Japan / GAMES Webinar
- AUG. 2018 | Discovering Unsupervised Learning in Image Processing
CIA, Cambridge University, UK
- JUN. 2018 | Revisiting Deep Intrinsic Image Decomposition
CVPR 2018, USA
- NOV. 2015 | Interactive Real-time Video Segmentation
SIGGRAPH Asia 2015, Japan

AWARDS

- 2020 CCF Doctorial Dissertation Award Nominee (CCF 优博提名)
- 2019 Outstanding Academic Achievement Award of Shandong University
- 2018 Academic Star Nominee of Shandong University (10/20000)
- 2018 National Scholarship
- 2016 Outstanding Academic Achievement Award of Shandong University
- 2015 Presidential Scholarship of Shandong University (35/20000)
(Highest honor for students in SDU, only 35 elected among around 20000 candidates)

2015 National Scholarship

2015 Pacemaker to Outstanding Graduate Student of Shandong University