

Chen Gao

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Education

- 2018–Present **Virginia Tech.**
Ph.D. in Computer Engineering
Advisor: Jia-Bin Huang
- 2015–2017 **University of Michigan, Ann Arbor.**
Master of Science in Electrical and Computer Engineering
Advisor: Raj Rao Nadakuditi
- 2013–2015 **Oregon State University.**
Bachelor of Science in Electrical and Computer Engineering
Minor in Computer Science

Work Experience

- Summer 2021 **Google, Cambridge**
Research Intern in the VisCam Team. Host: Michael Krainin & Miki Rubinstein
- Summer 2020 **Google, Mountain View**
Research Intern in the Android Camera Algorithm Team. Host: YiChang Shih & Wei-Sheng Lai
- Summer 2019 **Facebook, Seattle**
Research Intern in the Computational Photography Group. Host: Johannes Kopf

Publications

- arXiv preprint Portrait Neural Radiance Fields from a Single Image
Chen Gao, Yichang Shih, Wei-Sheng Lai, Chia-Kai Liang, Jia-Bin Huang
arXiv, 2021 [\[Paper\]](#) [\[Project\]](#)
- ICCV 2021 Dynamic View Synthesis from Dynamic Monocular Video
Chen Gao, Ayush Saraf, Johannes Kopf, Jia-Bin Huang
Proceedings of IEEE International Conference on Computer Vision, 2021 [\[Paper\]](#) [\[Project\]](#) [\[Code\]](#)
- ECCV 2020 Flow-edge Guided Video Completion
Chen Gao, Ayush Saraf, Jia-Bin Huang, Johannes Kopf
Proceedings of European Conference on Computer Vision, 2020 [\[Paper\]](#) [\[Project\]](#) [\[Code\]](#)
- ECCV 2020 DRG: Dual Relation Graph for Human-Object Interaction Detection
Chen Gao, Jiarui Xu, Yuliang Zou, Jia-Bin Huang
Proceedings of European Conference on Computer Vision, 2020 [\[Paper\]](#) [\[Project\]](#) [\[Code\]](#)
- ECCV 2020 NAS-DIP: Learning Deep Image Prior with Neural Architecture Search
Yun-Chun Chen*, **Chen Gao***, Esther Robb, Jia-Bin Huang
Proceedings of European Conference on Computer Vision, 2020 [\[Paper\]](#) [\[Project\]](#) [\[Code\]](#)
- NeurIPS 2019 Why Can't I Dance in the Mall? Learning to Mitigate Scene Bias in Action Recognition
Jinwoo Choi, **Chen Gao**, Joseph Messou, Jia-Bin Huang
Proceedings of Neural Information Processing Systems, 2019 [\[Paper\]](#) [\[Project\]](#) [\[Code\]](#)
- BMVC 2018 iCAN: Instance-Centric Attention Network for Human-Object Interaction Detection
Chen Gao, Yuliang Zou, and Jia-Bin Huang
Proceedings of British Machine Vision Conference, 2018 [\[Paper\]](#) [\[Project\]](#) [\[Code\]](#)
- GlobalSIP 2017 Augmented Robust PCA for Foreground-background Separation on Noisy, Moving Camera Video
Chen Gao, Brian E. Moore, Raj Rao Nadakuditi
Proceedings of IEEE Global Conference on Signal and Information Processing (GlobalSIP), 2017 [\[Paper\]](#) [\[Project\]](#) [\[Code\]](#)

TCI 2019 Panoramic Robust PCA for Foreground-Background Separation on Noisy, Free-Motion Camera Video
Chen Gao*, Brian E. Moore*, Raj Rao Nadakuditi
IEEE Transactions on Computational Imaging (TCI), 2019

[\[Paper\]](#) [\[Project\]](#) [\[Code\]](#)

Academic Services

Conference ACCV 2020, BMVC 2019-2021, CVPR 2020-2022, ICCV 2021, ICML 2021, NeurIPS 2020-2021, SIGGRAPH
Reviewer: 2021, WACV 2020-2022
Journal TPAMI, TCI
Reviewer:

Teaching

2018 Teaching Assistant, ECE5554/4554 (Computer Vision)
2019 Teaching Assistant, ECE5424/5824 (Advanced Machine Learning)

Computer Skills

Programming C, C++, Python, Matlab, Assembly, HTML
Languages:
Libraries: TensorFlow, PyTorch, Caffe, OpenCV, CUDA