

Education

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

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 [\[Paper\]](#) [\[Project\]](#)
- 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 **Augmented Robust PCA for Foreground-background Separation on Noisy, Moving Camera Video**
2017 *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 Reviewer: SIGGRAPH 2021, BMVC 2019-2021, NeurIPS 2020-2021, CVPR 2020-2021, ACCV 2020, WACV 2020-2021
- Journal Reviewer: IEEE Pattern Analysis and Machine Intelligence (TPAMI)

Teaching

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

Skills

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