

## 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 **Dynamic View Synthesis from Dynamic Monocular Video**  
[\[Paper\]](#) [\[Project page\]](#)  
**Chen Gao**, Ayush Saraf, Johannes Kopf, Jia-Bin Huang
- arXiv preprint **Portrait Neural Radiance Fields from a Single Image**  
[\[Paper\]](#) [\[Project page\]](#)  
**Chen Gao**, Yichang Shih, Wei-Sheng Lai, Chia-Kai Liang, Jia-Bin Huang
- ECCV 2020 **Flow-edge Guided Video Completion**  
[\[Paper\]](#) [\[Project page\]](#) [\[Code\]](#)  
**Chen Gao**, Ayush Saraf, Jia-Bin Huang, Johannes Kopf  
Proceedings of European Conference on Computer Vision, 2020
- ECCV 2020 **DRG: Dual Relation Graph for Human-Object Interaction Detection**  
[\[Paper\]](#) [\[Project page\]](#) [\[Code\]](#)  
**Chen Gao**, Jiarui Xu, Yuliang Zou, Jia-Bin Huang  
Proceedings of European Conference on Computer Vision, 2020
- ECCV 2020 **NAS-DIP: Learning Deep Image Prior with Neural Architecture Search**  
[\[Paper\]](#) [\[Project page\]](#) [\[Code\]](#)  
Yun-Chun Chen\*, **Chen Gao\***, Esther Robb, Jia-Bin Huang  
Proceedings of European Conference on Computer Vision, 2020
- NeurIPS 2019 **Why Can't I Dance in the Mall? Learning to Mitigate Scene Bias in Action Recognition**  
[\[Paper\]](#) [\[Project page\]](#) [\[Code\]](#)  
Jinwoo Choi, **Chen Gao**, Joseph Messou, Jia-Bin Huang  
In Proceedings of Neural Information Processing Systems (NeurIPS), 2019

- BMVC 2018 **iCAN: Instance-Centric Attention Network for Human-Object Interaction Detection** [\[Paper\]](#) [\[Project page\]](#) [\[Code\]](#)  
**Chen Gao**, Yuliang Zou, and Jia-Bin Huang  
In Proceedings of the 29th British Machine Vision Conference (BMVC), 2018
- GlobalSIP 2017 **Augmented Robust PCA for Foreground-background Separation on Noisy, Moving Camera Video** [\[Paper\]](#) [\[Project page\]](#) [\[Code\]](#)  
**Chen Gao**, Brian E. Moore, Raj Rao Nadakuditi  
In Proceedings of the 5th IEEE Global Conference on Signal and Information Processing (GlobalSIP), 2017
- IEEE TCI **Panoramic Robust PCA for Foreground-Background Separation on Noisy, Free-Motion Camera Video** [\[Paper\]](#) [\[Project page\]](#) [\[Code\]](#)  
**Chen Gao\***, Brian E. Moore\*, Raj Rao Nadakuditi  
IEEE Transactions on Computational Imaging (TCI), 2019

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## Academic Services

- Conference Reviewer: SIGGRAPH 2021, BMVC 2019-2021, NeurIPS 2020-2021, CVPR 2020-2021, ACCV 2020, WACV 2020
- Journal Reviewer: IEEE Pattern Analysis and Machine Intelligence (TPAMI)

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## Teaching

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

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## Skills

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