Chen Gao

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Education

2018–2022	**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

2022–Present	**Meta, Seattle** Research Scientist in the Computational Photography Team
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 Team. Host: Johannes Kopf

Publications

CVPR 2023	Progressively Optimized Local Radiance Fields for Robust View Synthesis Andreas Meuleman, Yu-Lun Liu, **Chen Gao**, Jia-Bin Huang, Changil Kim, Min H. Kim, Johannes Kopf Proceedings of IEEE Conference on Computer Vision and Pattern Recognition, 2023 [Paper] [Project] [Code]
CVPR 2023	Robust Dynamic Radiance Fields Yu-Lun Liu, **Chen Gao**, Andreas Meuleman, Hung-Yu Tseng, Ayush Saraf, Changil Kim, Yung-Yu Chuang, Johannes Kopf, Jia-Bin Huang Proceedings of IEEE Conference on Computer Vision and Pattern Recognition, 2023 [Paper] [Project] [Code]
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 Reviewer:	ACCV 2020, BMVC 2019-2022, CVPR 2020-2022, ICCV 2021, ICML 2021, ICLR 2021, NeurIPS 2020-2022, SIGGRAPH 2021-2022, WACV 2020-2022
Journal Reviewer:	TPAMI, TCI, IJCV

Teaching

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

Computer Skills

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