

## Employment

- 2022–Present **Meta** XR Tech | Seattle  
Research Scientist, 3D/4D Reconstruction
- Summer 2021 **Google** VisCam team | Cambridge  
Research Intern, Panoramic Video
- Summer 2020 **Google** Android Camera Algorithm team  
Research Intern, Portrait NeRF
- Summer 2019 **Facebook** Computational Photography team | Seattle  
Research Intern, Video Completion

## Education

- 2018–2022 **Ph.D.** in Computer Engineering at Virginia Tech.  
Advisor: Jia-Bin Huang
- 2015–2017 **M.Sc.** in Electrical and Computer Engineering at University of Michigan.  
Advisor: Raj Rao Nadakuditi
- 2013–2015 **B.Sc.** in Electrical and Computer Engineering at Oregon State University.  
Minor in Computer Science

## Publications

- [16] **Textured Gaussians for Enhanced 3D Scene Appearance Modeling**  
CVPR 2025  
Brian Chao, Hung-Yu Tseng, Lorenzo Porzi, **Chen Gao**, Tuotuo Li, Qinbo Li, Ayush Saraf, Jia-Bin Huang, Johannes Kopf, Gordon Wetzstein, Changil Kim
- [15] **Reflection-Aware Neural Radiance Fields**  
SIGGRAPH Asia 2024  
**Chen Gao**, Yipeng Wang, Changil Kim, Jia-Bin Huang, Johannes Kopf
- [14] **Modeling Ambient Scene Dynamics for Free-view Synthesis**  
SIGGRAPH 2024  
Meng-Li Shih, Jia-Bin Huang, Changil Kim, Rajvi Shah, Johannes Kopf, **Chen Gao**
- [13] **SpecNeRF: Gaussian Directional Encoding for Specular Reflections**  
CVPR 2024  
Li Ma, Vasu Agrawal, Haithem Turki, Changil Kim, **Chen Gao**, Pedro V. Sander, Michael Zollhöfer, Christian Richardt
- [12] **OmnimatteRF: Robust Omnimatte with 3D Background Modeling**  
ICCV 2023  
Geng Lin, **Chen Gao**, Jia-Bin Huang, Changil Kim, Yipeng Wang, Matthias Zwicker, Ayush Saraf
- [11] **Progressively Optimized Local Radiance Fields for Robust View Synthesis**  
CVPR 2023  
Andreas Meuleman, Yu-Lun Liu, **Chen Gao**, Jia-Bin Huang, Changil Kim, Min H. Kim, Johannes Kopf

- [10] **Robust Dynamic Radiance Fields**  
CVPR 2023  
Yu-Lun Liu, **Chen Gao**, Andreas Meuleman, Hung-Yu Tseng, Ayush Saraf, Changil Kim, Yung-Yu Chuang, Johannes Kopf, Jia-Bin Huang
- [9] **Portrait Neural Radiance Fields from a Single Image**  
arXiv  
**Chen Gao**, Yichang Shih, Wei-Sheng Lai, Chia-Kai Liang, Jia-Bin Huang
- [8] **Dynamic View Synthesis from Dynamic Monocular Video**  
ICCV 2021  
**Chen Gao**, Ayush Saraf, Johannes Kopf, Jia-Bin Huang
- [7] **Flow-edge Guided Video Completion**  
ECCV 2020  
**Chen Gao**, Ayush Saraf, Jia-Bin Huang, Johannes Kopf
- [6] **DRG: Dual Relation Graph for Human-Object Interaction Detection**  
ECCV 2020  
**Chen Gao**, Jiarui Xu, Yuliang Zou, Jia-Bin Huang
- [5] **NAS-DIP: Learning Deep Image Prior with Neural Architecture Search**  
ECCV 2020  
Yun-Chun Chen\*, **Chen Gao\***, Esther Robb, Jia-Bin Huang
- [4] **Why Can't I Dance in the Mall? Learning to Mitigate Scene Bias in Action Recognition**  
NeurIPS 2019  
Jinwoo Choi, **Chen Gao**, Joseph Messou, Jia-Bin Huang
- [3] **iCAN: Instance-Centric Attention Network for Human-Object Interaction Detection**  
BMVC 2018  
**Chen Gao**, Yuliang Zou, and Jia-Bin Huang
- [2] **Augmented Robust PCA for Foreground-background Separation on Noisy, Moving Camera Video**  
GlobalSIP 2017  
**Chen Gao**, Brian E. Moore, Raj Rao Nadakuditi
- [1] **Panoramic Robust PCA for Foreground-Background Separation on Noisy, Free-Motion Camera Video**  
TCI 2019  
**Chen Gao\***, Brian E. Moore\*, Raj Rao Nadakuditi