

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

Publications

- CVPR 2025 Textured Gaussians for Enhanced 3D Scene Appearance Modeling
Brian Chao, Hung-Yu Tseng, Lorenzo Porzi, **Chen Gao**, Tuotuo Li, Qinbo Li, Ayush Saraf, Jia-Bin Huang, Johannes Kopf, Gordon Wetzstein, Changil Kim
[\[Paper\]](#) [\[Project\]](#)
- SIGGRAPH Asia 2024 Reflection-Aware Neural Radiance Fields
Chen Gao, Yipeng Wang, Changil Kim, Jia-Bin Huang, Johannes Kopf
[\[Paper\]](#) [\[Project\]](#)
- SIGGRAPH 2024 Modeling Ambient Scene Dynamics for Free-view Synthesis
Meng-Li Shih, Jia-Bin Huang, Changil Kim, Rajvi Shah, Johannes Kopf, **Chen Gao**
[\[Paper\]](#) [\[Project\]](#)
- CVPR 2024 SpecNeRF: Gaussian Directional Encoding for Specular Reflections
Li Ma, Vasu Agrawal, Haithem Turki, Changil Kim, **Chen Gao**, Pedro V. Sander, Michael Zollhöfer, Christian Richardt
[\[Paper\]](#) [\[Project\]](#)
- ICCV 2023 OmnimatteRF: Robust Omnimatte with 3D Background Modeling
Geng Lin, **Chen Gao**, Jia-Bin Huang, Changil Kim, Yipeng Wang, Matthias Zwicker, Ayush Saraf
[\[Paper\]](#) [\[Project\]](#) [\[Code\]](#)
- 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
[\[Paper\]](#) [\[Project\]](#) [\[Code\]](#)

- 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
[\[Paper\]](#) [\[Project\]](#) [\[Code\]](#)
- arXiv preprint Portrait Neural Radiance Fields from a Single Image
Chen Gao, Yichang Shih, Wei-Sheng Lai, Chia-Kai Liang, Jia-Bin Huang
[\[Paper\]](#) [\[Project\]](#)
- ICCV 2021 Dynamic View Synthesis from Dynamic Monocular Video
Chen Gao, Ayush Saraf, Johannes Kopf, Jia-Bin Huang
[\[Paper\]](#) [\[Project\]](#) [\[Code\]](#)
- ECCV 2020 Flow-edge Guided Video Completion
Chen Gao, Ayush Saraf, Jia-Bin Huang, Johannes Kopf
[\[Paper\]](#) [\[Project\]](#) [\[Code\]](#)
- ECCV 2020 DRG: Dual Relation Graph for Human-Object Interaction Detection
Chen Gao, Jiarui Xu, Yuliang Zou, Jia-Bin Huang
[\[Paper\]](#) [\[Project\]](#) [\[Code\]](#)
- ECCV 2020 NAS-DIP: Learning Deep Image Prior with Neural Architecture Search
Yun-Chun Chen*, **Chen Gao***, Esther Robb, Jia-Bin Huang
[\[Paper\]](#) [\[Project\]](#) [\[Code\]](#)
- 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
[\[Paper\]](#) [\[Project\]](#) [\[Code\]](#)
- BMVC 2018 iCAN: Instance-Centric Attention Network for Human-Object Interaction Detection
Chen Gao, Yuliang Zou, and Jia-Bin Huang
[\[Paper\]](#) [\[Project\]](#) [\[Code\]](#)
- GlobalSIP 2017 Augmented Robust PCA for Foreground-background Separation on Noisy, Moving Camera Video
Chen Gao, Brian E. Moore, Raj Rao Nadakuditi
[\[Paper\]](#) [\[Project\]](#) [\[Code\]](#)
- TCI 2019 Panoramic Robust PCA for Foreground-Background Separation on Noisy, Free-Motion Camera Video
Chen Gao*, Brian E. Moore*, Raj Rao Nadakuditi
[\[Paper\]](#) [\[Project\]](#) [\[Code\]](#)