Bio

LINKS
- Personal Site: https://choisuyeon.github.io/

Publications

PUBLICATIONS

- Neural 3D Holography: Learning Accurate Wave Propagation Models for 3D Holographic Virtual and Augmented Reality Displays. *ACM Transactions on Graphics*
  Choi, S., Gopakumar, M., Peng, Y., Kim, J., Wetzstein, G.
  2021; 40 (6)

- Unfiltered holography: optimizing high diffraction orders without optical filtering for compact holographic displays. *Optics Letters*
  Gopakumar, M., Kim, J., Choi, S., Peng, Y., Wetzstein, G.
  2021; 46 (23): 5822-5825

- Speckle-free holography with partially coherent light sources and camera-in-the-loop calibration. *Science advances*
  Peng, Y., Choi, S., Kim, J., Wetzstein, G.
  2021; 7 (46): eabg5040

- Optimizing image quality for holographic near-eye displays with Michelson Holography. *Optica*
  Choi, S., Kim, J., Peng, Y., Wetzstein, G.
  2021; 8 (2): 143–46

- High-quality holographic displays using double SLMs and camera-in-the-loop optimization
  Choi, S., Peng, Y., Kim, J., Wetzstein, G., Kress, B. C., Peroz, C.
  SPIE-INT SOC OPTICAL ENGINEERING 2021

- Neural Holography with Camera-in-the-loop Training. *ACM Transactions on Graphics*
  Peng, Y., Choi, S., Padmanaban, N., Wetzstein, G.
  2020; 39 (6)

- Volumetric Head-Mounted Display with Locally Adaptive Focal Blocks. *IEEE transactions on visualization and computer graphics*
  2020; PP

- Neural Holography
  Peng, Y., Choi, S., Padmanaban, N., Kim, J., Wetzstein, G., ACM
  ASSOC COMPUTING MACHINERY 2020

- Tomographic Projector: Large Scale Volumetric Display with Uniform Viewing Experiences. *ACM Transactions on Graphics*
  Jo, Y., Lee, S., Yoo, D., Choi, S., Kim, D., Lee, B.
Optimal binary representation via non-convex optimization on tomographic displays *OPTICS EXPRESS*

Choi, S., Lee, S., Jo, Y., Yoo, D., Kim, D., Lee, B.

2019; 27 (17): 24362–81