

CHAO TAN

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SUMMARY

Chao Tan will be pursuing his master's degree at KAIST and has obtained his bachelor's degree in Optoelectronic Information Science and Engineering from Sichuan University. His research interests include computational optical imaging, biomedical imaging, 3D display technology, and Mixed Reality (MR).

(Jul. 14, 2024)

EDUCATION

- **Bachelor of Engineering, Sichuan University** (2020-2024)
College of Electronics and Information Engineering
Major: Optoelectronic Information Science and Engineering
Overall Grade: 86.94/100 (Compulsory Courses : 87.7/100)
GPA : 3.61/4.0 (Compulsory Courses : 3.68/4.0)

PUBLICATIONS

- **Tan, C.**, Wang, J., Wu, Y., Zhou, J., Chen, N. (2024). Fast scaled cylindrical holography based on scaled convolution. *Displays*, 81, 102619.
- Xu, F., Wu, Z., **Tan, C.**, Liao, Y., Wang, Z., Chen, K., Pan, A. (2024). Fourier Ptychographic Microscopy 10 Years on: A Review. *Cells*, 13(4), 324.
- Zhang, W., Wang, J*, **Tan, C.**, Wu, Y., Zhang, Y., Chen, N. (2023). Large field-of-view holographic Maxwellian display based on spherical crown diffraction. *Optics Express*, 31(14), 22660-22670.

EXPERIENCE

- **Research Intern: Computational Imaging and Biomedical Imaging** (Jul 2023 - Jan 2024)
Xi'an Institute of Optics and Precision Mechanics, Chinese Academy of Sciences, Xi'an, China
- Depth of field extension in Fourier ptychography microscope using digital refocusing.
(Supervisor: Prof. An Pan)
- **Research Intern: Computer-generated Holograms** (Jul 2022 - Jul 2023)
Information Display Institute, Sichuan University, Chengdu, China
- Proposed a fast calculation algorithm for scaling cylindrical holography using scaled diffraction in Python.
(Supervisor: Prof. Jun Wang)
- **Curriculum Design: Camera Design for the Whole Grade Family Photo** (Mar 2023 - Jun 2023)
Optoelectronic Precision Instrumentation Curriculum Design, Sichuan University, Chengdu, China
- Designed and assembled a camera capable of capturing all students in the grade along with the teacher (78+1) using Zemax and Solidworks.

SKILLS

- **Languages:** English - Fluent (IELTS: 6.5), Mandarin - Native speaker
- **Programming & software:** Python, Matlab, C, Verilog, LaTeX; Zemax, Solidworks