

Sixiang Chen

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EDUCATION

- **School of Ocean Information Engineering, Jimei University** Xiamen, China
Bachelor of Communication Engineering; July 2019 - June 2023
Courses: Functions of Complex Variable(100/100), Programming Fundamentals(98/100,C language), Mathematical Modeling (96/100,Python/MATLAB language), Advanced Mathematics (92/100), Probability Theory and Mathematical Statistics (96/100).

RESEARCH INTEREST

- Performing image restoration under adverse conditions.
- Vision Transformer for efficient image processing.
- Efficient neural network for low-level applications.

PUBLICATIONS

- **ICCV'23: Sparse Sampling Transformer with Uncertainty-Driven Ranking for Unified Removal of Raindrops and Rain Streaks:** [Sixiang Chen](#), Tian Ye[†], Jinbin Bai, Jun Shi, Erkang Chen, Lei Zhu.
- **ICCV'23: AWRCP: Reinventing Adverse Weather Removal with Codebook Priors:** Tian Ye[†], [Sixiang Chen](#)[†], Jinbin Bai, Shi Jun, Chenghao Xue, Jingjia Jiang, Junjie Yin, Erkang Chen, Yun Liu. *Co-first author*
- **ICASSP'23: DEHRFormer: Real-time Transformer for Depth Estimation and Haze Removal from Varicolored Haze Scenes:** [Sixiang Chen](#)[†], Tian Ye[†], Jun Shi, Yun Liu, JingXia Jiang, Erkang Chen, Peng Chen. [PDF]
- **ICASSP'23: MSP-Former: Multi-Scale Projection Transformer for Single Image Desnowing:** [Sixiang Chen](#)[†], Tian Ye[†], Yun Liu, Taodong Liao, Jingxia Jiang, Erkang Chen, Peng Chen. [PDF]
- **Displays (Q2): Robust back-scattered light estimation for underwater image enhancement with polarization:** [Sixiang Chen](#), Erkang Chen, Tian Ye, Chenghao Xue. [PDF]
- **ACCV'22: Towards Real-time High-Definition Image Snow Removal: Efficient Pyramid Network with Asymmetrical Encoder-decoder Architecture:** Tian Ye[†], [Sixiang Chen](#)[†], Yun Liu, Yi Ye, Erkang Chen *Co-first author.* [PDF]
- **ECCV'22 Oral: Perceiving and Modeling Density for Image Dehazing:** Tian Ye, Mingchao Jiang, Yunchen Zhang, Liang Chen, Yun Liu, [Sixiang Chen](#), Erkang Chen. [PDF, Code]
- **CVPRW'22: Underwater Light Field Retention: Neural Rendering for Underwater Imaging:** Tian Ye[†], [Sixiang Chen](#)[†], Yun Liu, Yi Ye, Erkang Chen, Yuche Li *Co-first author.* [PDF, My Github]

ARXIV PREPRINT

- **Arxiv'22: SnowFormer: Context Interaction Transformer with Scale-awareness for Single Image Desnowing:** [Sixiang Chen](#)[†], Tian Ye[†], Yun Liu, Erkang Chen. [PDF, My Github]
- **Arxiv'22: Dual-former: Hybrid Self-attention Transformer for Efficient Image Restoration:** [Sixiang Chen](#)[†], Tian Ye[†], Yun Liu, Erkang Chen.[PDF]
- **Arxiv'23: NightHazeFormer: Single Nighttime Haze Removal Using Prior Query Transformer:** Yun Liu, Zhongsheng Yan, [Sixiang Chen](#), Tian Ye, Wenqi Ren, Erkang Chen. [PDF]
- **Arxiv'23: Five A+ Network: You Only Need 9K Parameters for Underwater Image Enhancement:** Jingxia Jiang[†], Tian Ye[†], Jinbin Bai[†], [Sixiang Chen](#), Wenhao Chai, Jun Shi, Yun Liu, Erkang Chen.[PDF]

PAPER UNDER REVIEW

- **Uncertainty-Driven Dynamic Degradation Perceiving and Background Modeling for Efficient Single Image Desnowing:** [Sixiang Chen](#)[†], Tian Ye[†], Chenghao Xue, Haoyu Chen, Yun Liu, Erkang Chen, Lei Zhu.
- **CPLFormer: Cross-scale Prototype Learning Transformer for Image Snow Removal:** [Sixiang Chen](#)[†], Tian Ye[†], Yun Liu, Jinbin Bai, Haoyu Chen, Yunlong Lin, Jun Shi, Erkang Chen.
- **Sequential Affinity Learning for Video Restoration:** Tian Ye[†], [Sixiang Chen](#)[†], Yun Liu, Wenhao Chai, Jinbin Bai, Wenbin Zou, Yunchen Zhang, jiang mingchao, Erkang Chen, Chenghao Xue. *Co-first author*

RESEARCH SERVICE

- **Reviewer:** CVPR 2022 NTIRE workshop, ACCV 2022, ICRA 2023, ICCV 2023, ACMMM 2023, TMM.

SKILLS SUMMARY

- **Languages:** Python, C, JAVA.
- **Frameworks:** Opencv, Pytorch, Numpy.
- **Soft Skills:** Leadership, Science Writing, Independent Thinking.

COLLEGE COMPETITIONS AND AWARDS

- * **Outstanding Graduate in Jimei University, 2023.:** Rewarding excellent students during bachelor study.
- * **International Third Price, Team Leader:** Mathematical Contest In Modeling, 2022.
- * **National Second Prize, Team Leader:** China Undergraduate Mathematical Contest in Modeling, 2021.
- * **National Second Prize, Team Leader:** Mathorcup Mathematical Contest in Modeling, 2021.