

## Research Interests

I work on *image/video processing*, *computer vision*, and *computational photography*, particularly on essential problems requiring *machine learning* with insights from *geometry* and *domain-specific knowledge*.

- Image and video synthesis and generation
- 3D from multi-view and sensors
- Low-level vision

## Work Experience

- Feb. 2023 – **Department of Computer Science, National Yang Ming Chiao Tung University.**  
*Assistant Professor*
- May 2022 – **Meta Reality Labs Research.**  
Oct. 2022 *Research Scientist Intern*
- Jun. 2017 – **MediaTek Inc.**  
Feb. 2022 *Senior Algorithm Development Engineer*
- Sep. 2014 – **MediaTek Inc.**  
Jun. 2017 *Algorithm Development Engineer*

## Selected Honors and Awards

- July 2025 **3rd place of the NYCU CS Undergraduate Research Competition**, CS, NYCU.
- July 2025 **2nd place of the NYCU CS Undergraduate Research Competition**, CS, NYCU.
- Mar. 2025 **K. T. Li Young Researcher Award**, *Institute of Information & Computing Machinery (IICM)*.
- Dec. 2024 **Outstanding Contribution Award for Young CS Scholars**, *College of CS, NYCU*.
- Nov. 2024 **Excellent Master Thesis Award**, *Taiwanese Association for Artificial Intelligence (TAAI)*.
- Aug. 2024 **Excellent Master Thesis Award**, *The Chinese Image Processing and Pattern Recognition Society (IPPR)*.
- July 2024 **3rd place of the NYCU CS Undergraduate Research Competition**, CS, NYCU.
- July 2024 **2nd place of the NYCU CS Undergraduate Research Competition**, CS, NYCU.
- June 2024 **NSTC 2030 Emerging Young Scholar**, *National Science and Technology Council, R.O.C. (Taiwan)*.
- May 2024 **CVPR 2024 Outstanding Reviewer**.
- April 2024 **Google Research Scholar Award**.
- Jan. 2024 **1st place of the NYCU CS Undergraduate Research Competition**, CS, NYCU.
- Aug. 2023 **Google's Research Grant**, *Google University Relations Programs*.
- Aug. 2023 **Best Ph.D. Thesis Award**, *The Chinese Image Processing and Pattern Recognition Society (IPPR)*.
- Jul. 2023 **Yushan Young Fellow Program**, *Ministry of Education, R.O.C. (Taiwan)*.
- Nov. 2013 **Academic Achievement Award**, *Institute of Electronics, NCTU*.
- May. 2013 **Academic Achievement Award**, *Institute of Electronics, NCTU*.

## Education

- 2017–2022 **Ph.D.**, *National Taiwan University, Taipei, Taiwan.*  
Department of Computer Science and Information Engineering, CMLAB  
Thesis: Restoring and Enhancing Images and Videos by Combining Modeling and Learning  
Advisor: Yung-Yu Chuang [link](#)

- 2012–2014 **M.S.**, *National Chiao-Tung University*, Hsinchu, Taiwan.  
Institute of Electronics, CommLab  
Thesis: Wide-Angle Virtual View Synthesis with Depth-Based Background Modeling  
Advisor: Hsueh-Ming Hang [link](#)
- 2008–2012 **B.S.**, *National Chiao-Tung University*, Hsinchu, Taiwan.  
Department of Electronics Engineering

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## Publications [\(Google Scholar profile\)](#)

### Journal papers

- IJCV 2024 **Portrait Distortion Correction with Perspective-Aware 3D GANs.**  
Zhixiang Wang, [Yu-Lun Liu](#), Jia-Bin Huang, Shin'ichi Satoh, Sizhuo Ma, Guru Krishnan, Jian Wang  
arXiv, 2023 [paper](#) [project](#)
- TPAMI 2021 **Learning to See Through Obstructions with Layered Decomposition.**  
[Yu-Lun Liu](#), Wei-Sheng Lai, Ming-Hsuan Yang, Yung-Yu Chuang, and Jia-Bin Huang  
IEEE Transactions on Pattern Analysis and Machine Intelligence, 2021 [paper](#) [project](#)

### Conference papers

- CoRL 2025 **See, Point, Fly: A Learning-Free VLM Framework for Universal Unmanned Aerial Navigation.**  
Chih Yao Hu, Yang-Sen Lin, Yuna Lee, Chih-Hai Su, Jie-Ying Lee, Shr-Ruei Tsai, Chin-Yang Lin, Kuan-Wen Chen, Tsung-Wei Ke, [Yu-Lun Liu](#)  
9th Annual Conference on Robot Learning, 2025
- ICCV 2025 **LightsOut: Diffusion-based Outpainting for Enhanced Lens Flare Removal.**  
Shr-Ruei Tsai, Wei-Cheng Chang, Jie-Ying Lee, Chih-Hai Su, [Yu-Lun Liu](#)  
Proceedings of the IEEE/CVF Conference on Computer Vision, 2025
- ICCV 2025 **LongSplat: Robust Unposed 3D Gaussian Splatting for Casual Long Videos.**  
Chin-Yang Lin, Cheng Sun, Fu-En Yang, Min-Hung Chen, Yen-Yu Lin, [Yu-Lun Liu](#)  
Proceedings of the IEEE/CVF Conference on Computer Vision, 2025
- ICCV 2025 **StealthAttack: Robust 3D Gaussian Splatting Poisoning via Density-Guided Illusions.**  
Bo-Hsu Ke, You-Zhe Xie, [Yu-Lun Liu](#), Wei-Chen Chiu  
Proceedings of the IEEE/CVF Conference on Computer Vision, 2025
- ICCV 2025 **OpenM3D: Open Vocabulary Multi-view Indoor 3D Object Detection without Human Annotations.**  
Peng-Hao Hsu, Ke Zhang, Fu-En Wang, Tao Tu, Ming-Feng Li, [Yu-Lun Liu](#), Albert Y. C. Chen, Min Sun, Cheng-Hao Kuo  
Proceedings of the IEEE/CVF Conference on Computer Vision, 2025
- CVPR 2025 **GCC: Generative Color Constancy via Diffusing a Color Checker.**  
Chen-Wei Chang, Cheng-De Fan, Chia-Che Chang, Yi-Chen Lo, Yu-Chee Tseng, Jiun-Long Huang, [Yu-Lun Liu](#)  
Proceedings of the IEEE/CVF Conference on Computer Vision and Pattern Recognition, 2025 [paper](#) [project](#)
- CVPR 2025 **AuraFusion360: Augmented Unseen Region Alignment for Reference-based 360° Unbounded Scene Inpainting.**  
Chung-Ho Wu\*, Yang-Jung Chen\*, Ying-Huan Chen, Jie-Ying Lee, Bo-Hsu Ke, Chun-Wei Tuan Mu, Yi-Chuan Huang, Chin-Yang Lin, Min-Hung Chen, Yen-Yu Lin, [Yu-Lun Liu](#)  
Proceedings of the IEEE/CVF Conference on Computer Vision and Pattern Recognition, 2025 [paper](#) [project](#)
- CVPR 2025 **SpectroMotion: Dynamic 3D Reconstruction of Specular Scenes.**  
Cheng-De Fan, Chen-Wei Chang, Yi-Ruei Liu, Jie-Ying Lee, Jiun-Long Huang, Yu-Chee Tseng, [Yu-Lun Liu](#)  
Proceedings of the IEEE/CVF Conference on Computer Vision and Pattern Recognition, 2025 [paper](#) [project](#)
- CVPR 2025 **FrugalNeRF: Fast Convergence for Few-shot Novel View Synthesis without Learned Priors.**  
Chin-Yang Lin\*, Chung-Ho Wu\*, Chang-Han Yeh, Shih-Han Yen, Cheng Sun, [Yu-Lun Liu](#)  
Proceedings of the IEEE/CVF Conference on Computer Vision and Pattern Recognition, 2025 [paper](#) [project](#)
- CVPR 2025 **DeNVer: Deformable Neural Vessel Representations for Unsupervised Video Vessel Segmentation.**  
Chun-Hung Wu, Shih-Hong Chen, Chih-Yao Hu, Hsin-Yu Wu, Kai-Hsin Chen, Yu-You Chen, Chih-Hai Su, Chih-Kuo Lee, [Yu-Lun Liu](#)  
Proceedings of the IEEE/CVF Conference on Computer Vision and Pattern Recognition, 2025 [paper](#) [project](#)

- ICLR 2025 **CAT-3DGS: A Context-Adaptive Triplane Approach to Rate-Distortion-Optimized 3DGS Compression.**  
Yu-Ting Zhan\*, Cheng-Yuan Ho\*, Hebi Yang, Jui-Chiu Chiang, [Yu-Lun Liu](#), Wen-Hsiao Peng  
International Conference on Learning Representations, 2025 [i](#) [paper](#)
- ICASSP 2025 **3D Gaussian Splatting with Grouped Uncertainty for Unconstrained Images.**  
Hao-Yu Hou\*, Chia-Chi Hsu\*, Yu-Chen Huang\*, Mu-Yi Shen\*, Wei-Fang Sun, Cheng Sun, Chia-Che Chang, [Yu-Lun Liu](#), Chun-Yi Lee  
IEEE International Conference on Acoustics, Speech, and Signal Processing, 2025 [i](#) [paper](#)
- WACV 2025 **ORFormer: Occlusion-Robust Transformer for Accurate Facial Landmark Detection.**  
Jui-Che Chiang, Hou-Ning Hu, Bo-Syuan Hou, Chia-Yu Tseng, [Yu-Lun Liu](#), Min-Hung Chen, Yen-Yu Lin  
Proceedings of IEEE/CVF Winter Conference on Applications of Computer Vision, 2025 [i](#) [paper](#) [i](#) [project](#)  
**Oral Presentation**
- WACV 2025 **CorrFill: Enhancing Faithfulness in Reference-based Inpainting with Correspondence Guidance in Diffusion Models.**  
Kuan-Hung Liu, Cheng-Kun Yang, Min-Hung Chen, [Yu-Lun Liu](#), Yen-Yu Lin  
Proceedings of IEEE/CVF Winter Conference on Applications of Computer Vision, 2025 [i](#) [paper](#) [i](#) [project](#)  
**Oral Presentation**
- NeurIPS 2024 **ReF-LDM: A Latent Diffusion Model for Reference-based Face Image Restoration.**  
Chi-Wei Hsiao, [Yu-Lun Liu](#), Cheng-Kun Yang, Sheng-Po Kuo, Yucheun Kevin Jou, Chia-Ping Chen  
Conference on Neural Information Processing Systems, 2024 [i](#) [paper](#) [i](#) [project](#)
- NeurIPS 2024 **Depth Anywhere: Enhancing 360 Monocular Depth Estimation via Perspective Distillation and Unlabeled Data Augmentation.**  
Ning-Hsu Wang, [Yu-Lun Liu](#)  
Conference on Neural Information Processing Systems, 2024 [i](#) [paper](#) [i](#) [project](#)
- NeurIPS 2024 **NaRCan: Natural Refined Canonical Image with Integration of Diffusion Prior for Video Editing.**  
Ting-Hsuan Chen, Jiewen Chan, Hau-Shiang Shiu, Shih-Han Yen, Chang-Han Yeh, [Yu-Lun Liu](#)  
Conference on Neural Information Processing Systems, 2024 [i](#) [paper](#) [i](#) [project](#)
- IROS 2024 **Precise Pick-and-Place using Score-Based Diffusion Networks.**  
Shih-Wei Guo, Tsu-Ching Hsiao, [Yu-Lun Liu](#), Chun-Yi Lee  
IEEE/RSJ International Conference on Intelligent Robots and Systems, 2024 [i](#) [paper](#) [i](#) [project](#)
- ECCV 2024 **GenRC: 3D Indoor Scene Generation from Sparse Image Collections.**  
Ming-Feng Li, Yueh-Feng Ku, Hong-Xuan Yen, Chi Liu, [Yu-Lun Liu](#), Albert Y. C. Chen, Cheng-Hao Kuo, Min Sun  
Proceedings of European Conference on Computer Vision, 2024 [i](#) [paper](#) [i](#) [project](#)
- ICRA Workshop 2024 **DriveEnv-NeRF: Exploration of A NeRF-Based Autonomous Driving Environment for Real-World Performance Validation.**  
Mu-Yi Shen, Chia-Chi Hsu, Hao-Yu Hou, Yu-Chen Huang, Wei-Fang Sun, Chia-Che Chang, [Yu-Lun Liu](#), Chun-Yi Lee  
IEEE International Conference on Robotics and Automation RoboNerF Workshop, 2024 [i](#) [paper](#) [i](#) [project](#)
- SIGGRAPH 2024 **Matting by Generation.**  
Zhixiang Wang, Baiang Li, Jian Wang, [Yu-Lun Liu](#), Jinwei Gu, Yung-Yu Chuang, Shin'ichi Satoh  
ACM SIGGRAPH 2024 Conference Papers, 2024 [i](#) [paper](#) [i](#) [project](#)
- SIGGRAPH 2024 **BoostMVSNeRFs: Boosting MVS-based NeRFs to Generalizable View Synthesis in Large-scale Scenes.**  
Chih-Hai Su\*, Chih-Yao Hu\*, Shr-Ruei Tsai\*, Jie-Ying Lee\*, Chin-Yang Lin, [Yu-Lun Liu](#)  
ACM SIGGRAPH 2024 Conference Papers, 2024 [i](#) [paper](#) [i](#) [project](#)
- CVPR 2024 **Image-Text Co-Decomposition for Text-Supervised Semantic Segmentation.**  
Ji-Jia Wu, Andy Chia-Hao Chang, Chieh-Yu Chuang, Chun-Pei Chen, [Yu-Lun Liu](#), Min-Hung Chen, Hou-Ning Hu, Yung-Yu Chuang, Yen-Yu Lin  
Proceedings of the IEEE/CVF Conference on Computer Vision and Pattern Recognition, 2024 [i](#) [paper](#)
- CVPR 2024 **HumanNeRF-SE: A Simple yet Effective Approach to Animate HumanNeRF with Diverse Poses.**  
Caoyuan Ma, [Yu-Lun Liu](#), Zhixiang Wang, Wu Liu, Xinchun Liu, Zheng Wang  
Proceedings of the IEEE/CVF Conference on Computer Vision and Pattern Recognition, 2024 [i](#) [paper](#) [i](#) [project](#)
- ICLR 2024 **Dual Associated Encoder for Face Restoration.**  
Yu-Ju Tsai, [Yu-Lun Liu](#), Lu Qi, Kelvin C.K. Chan, Ming-Hsuan Yang  
The Twelfth International Conference on Learning Representations, 2024 [i](#) [paper](#) [i](#) [project](#)

- AAAI 2024 **Improving Robustness for Joint Optimization of Camera Poses and Decomposed Low-Rank Tensorial Radiance Fields.**  
Bo-Yu Cheng, Wei-Chen Chiu, [Yu-Lun Liu](#)  
Proceedings of AAAI Conference on Artificial Intelligence, 2024 [i paper](#) [i project](#)
- ICCV 2023 **Learning Continuous Exposure Value Representations for Single-Image HDR Reconstruction.**  
Su-Kai Chen, Hung-Lin Yen, [Yu-Lun Liu](#), Min-Hung Chen, Hou-Ning Hu, Wen-Hsiao Peng and Yen-Yu Lin  
Proceedings of the IEEE/CVF International Conference on Computer Vision, 2023 [i project](#)
- ICCV 2023 **ImGeoNet: Image-induced Geometry-aware Voxel Representation for Multi-view 3D Object Detection.**  
Tao Tu, Shun-Po Chuang, [Yu-Lun Liu](#), Cheng Sun, Ke Zhang, Donna Roy, Cheng-Hao Kuo, Min Sun  
Proceedings of the IEEE/CVF International Conference on Computer Vision, 2023 [i project](#)
- 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  
Proceedings of IEEE/CVF Conference on Computer Vision and Pattern Recognition, 2023 [i paper](#) [i project](#)
- 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  
Proceedings of IEEE/CVF Conference on Computer Vision and Pattern Recognition, 2023 [i paper](#) [i project](#)
- ICLR 2022 **Denoising Likelihood Score Matching for Conditional Score-based Data Generation .**  
Chen-Hao Chao, Wei-Fang Sun, Bo-Wun Cheng, Yi-Chen Lo, Chia-Che Chang, [Yu-Lun Liu](#), Yu-Lin Chang, Chia-Ping Chen, and Chun-Yi Lee  
International Conference on Learning Representations, 2022 [i paper](#)
- ICCV 2021 **Bridging Unsupervised and Supervised Depth from Focus via All-in-Focus Supervision.**  
Ning-Hsu Wang, Ren Wang, [Yu-Lun Liu](#), Yu-Hao Huang, Yu-Lin Chang, Chia-Ping Chen, and Kevin Jou  
Proceedings of IEEE/CVF Conference on Computer Vision, 2021 [i paper](#) [i project](#)
- ICCV 2021 **Hybrid Neural Fusion for Full-frame Video Stabilization.**  
[Yu-Lun Liu](#), Wei-Sheng Lai, Ming-Hsuan Yang, Yung-Yu Chuang, and Jia-Bin Huang  
Proceedings of IEEE/CVF Conference on Computer Vision, 2021 [i paper](#) [i project](#)
- ICPR 2020 **Explorable Tone Mapping Operators.**  
Chien-Chuan Su, Ren Wang, Hung-Jin Lin, [Yu-Lun Liu](#), Chia-Ping Chen, Yu-Lin Chang, and Soo-Chang Pei  
Proceedings of the 25th International Conference on Pattern Recognition, 2020 [i paper](#)
- ECCV 2020 **Learning Camera-Aware Noise Models.**  
Ke-Chi Chang, Ren Wang, Hung-Jin Lin, [Yu-Lun Liu](#), Chia-Ping Chen, Yu-Lin Chang, and Hwann-Tzong Chen  
Proceedings of European Conference on Computer Vision, 2020 [i paper](#) [i project](#)
- CVPR 2020 **Learning to See Through Obstructions.**  
[Yu-Lun Liu](#), Wei-Sheng Lai, Ming-Hsuan Yang, Yung-Yu Chuang, and Jia-Bin Huang  
Proceedings of IEEE/CVF Conference on Computer Vision and Pattern Recognition, 2020 [i paper](#) [i project](#)
- CVPR 2020 **Single-Image HDR Reconstruction by Learning to Reverse the Camera Pipeline.**  
[Yu-Lun Liu](#)<sup>\*</sup>, Wei-Sheng Lai<sup>\*</sup>, Yu-Sheng Chen, Yi-Lung Kao, Ming-Hsuan Yang, Yung-Yu Chuang, and Jia-Bin Huang  
Proceedings of IEEE/CVF Conference on Computer Vision and Pattern Recognition, 2020 [i paper](#) [i project](#)
- AAAI 2020 **Attention-based View Selection Networks for Light-field Disparity Estimation.**  
Yu-Ju Tsai, [Yu-Lun Liu](#), Yung-Yu Chuang, and Ming Ouhyoung  
Proceedings of AAAI Conference on Artificial Intelligence, 2020 [i paper](#)
- AAAI 2019 **Deep Video Frame Interpolation using Cyclic Frame Generation.**  
[Yu-Lun Liu](#), Yi-Tung Liao, Yen-Yu Lin, and Yung-Yu Chuang  
Proceedings of AAAI Conference on Artificial Intelligence, 2019 [i paper](#) [i project](#)  
**Oral Presentation**
- APSIPA 2014 **Background modeling using depth information.**  
[Yu-Lun Liu](#) and Hsueh-Ming Hang  
Signal and Information Processing Association Annual Summit and Conference, 2014
- PCS 2013 **Virtual view synthesis using backward depth warping algorithm.**  
Du-Hsiu Li, Hsueh-Ming Hang, and [Yu-Lun Liu](#)  
Picture Coding Symposium, 2013

## Preprints

- arXiv 2024 **FIPER: Generalizable Factorized Fields for Joint Image Compression and Super-Resolution.**  
Yang-Che Sun, Cheng Yu Yeo, Ernie Chu, Jun-Cheng Chen, [Yu-Lun Liu](#)  
arXiv, 2024 [i paper](#) [i project](#)
- arXiv 2024 **DiffIR2VR-Zero: Zero-Shot Video Restoration with Diffusion-based Image Restoration Models.**  
Chang-Han Yeh, Chin-Yang Lin, Zhixiang Wang, Chi-Wei Hsiao, Ting-Hsuan Chen, [Yu-Lun Liu](#)  
arXiv, 2024 [i paper](#) [i project](#)

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## Talks

- Guest Lecture **3D from Multi-view.**  
MediaTek Inc., Hsinchu, Taiwan, July 2025.
- Invited Talk **What School and Work Didn't Teach Me.**  
Library, NYCU, Hsinchu, Taiwan, Sep. 2024.
- Invited Seminar **Enhancing 3D Scene Reconstruction in NeRFs.**  
CSIE, NTU, Taipei, Taiwan, Mar. 2024.
- Keynote **AI Photographer: How Machines Are Changing the Way We See the World.**  
Fun AI Winter Camp, NCKU, Tainan, Taiwan, Feb. 2024.
- Invited Talk **Dynamic and Local Radiance Fields for Robust View Synthesis.**  
MediaTek Inc., Hsinchu, Taiwan, May. 2023.
- Invited Talk **Dynamic and Local Radiance Fields for Robust View Synthesis.**  
Institute of Communications Engineering, NTHU, Hsinchu, Taiwan, April. 2023.
- Invited Talk **Dynamic and Local Radiance Fields for Robust View Synthesis.**  
The 5th Augmented Intelligence and Interaction (AII) Workshop, Taoyuan, Taiwan, March. 2023.
- Guest Lecture **What School and the Workplace Didn't Teach Me.**  
NYCU, Hsinchu, Taiwan, March. 2023.
- Invited Talk **Learning to See the Unseen.**  
Taichung Municipal Taichung First Senior High School, Taichung, Taiwan, March. 2023.
- Invited Talk **Learning to See the Unseen.**  
Research Center for Information Technology Innovation, Academia Sinica, Taipei, Taiwan, January. 2023.
- Invited Talk **Learning to See the Unseen.**  
Institute of Information Systems and Applications, NTHU, Hsinchu, Taiwan, November. 2022.
- Guest Lecture **Recent Progress on Video Restoration.**  
CommE7005, NTU, Taipei, Taiwan, Mar. 2022.
- Guest Lecture **Rethinking Multimedia and IC Design in the Era of AI.**  
CommE7005, NTU, Taipei, Taiwan, Nov. 2021.
- Guest Lecture **CV Final Project - Video Frame Interpolation.**  
EEE5053, NTU, Taipei, Taiwan, May. 2021.
- Guest Lecture **Rethinking Multimedia and IC Design in the Era of AI.**  
DEE4592, NCTU, Hsinchu, Taiwan, Mar. 2021.
- Invited Talk **Learning to See Through Obstructions.**  
2020 CVPR Taiwan Sharing Session, NTU, Taipei, Taiwan, July. 2020.
- Invited Talk **Single-Image HDR Reconstruction by Learning to Reverse the Camera Pipeline.**  
2020 CVPR Taiwan Sharing Session, NTU, Taipei, Taiwan, July. 2020.
- Guest Lecture **CV Final Project - Depth Estimation.**  
EEE5053, NTU, Taipei, Taiwan, Jan. 2020.
- Invited Talk **Deep Video Frame Interpolation using Cyclic Frame Generation.**  
The 3rd Augmented Intelligence and Interaction (AII) Workshop, Taoyuan, Taiwan, July. 2019.
- Oral **Deep Video Frame Interpolation using Cyclic Frame Generation.**  
AAAI, Honolulu, Hawaii, USA, Jan. 2019.

Guest Lecture **CV Final Project - Depth Estimation.**  
EEE5053, NTU, Taipei, Taiwan, Jan. 2019.

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## Academic Services

Organizer	2020 CVPR Taiwan Sharing Session
Thesis Committees	Hsuan-Kung Yang (advisor: Chun-Yi Lee) - PhD, expected 2024 Yi-Hsin Chen (advisor: Wen-Hsiao Peng) – PhD, expected 2024 Ardian Umam (advisors: Yen-Yu Lin and Jen-Hui Chuang) – PhD, Dec 2024 Cheng Sun (advisors: Hwann-Tzong Chen and Min Sun) – PhD, Jul 2023 Hitika Tiwari (advisors: K. S. Venkatesh and Yong-Sheng Chen) – PhD, Jul 2023 Cheng-Kun Yang (advisors: Yung-Yu Chuang and Yen Yu-Lin) – PhD, Jul 2023
Journal Reviewer	IEEE Transactions on Image Processing ( <b>TIP</b> ) ACM Computing Surveys ( <b>CSUR</b> ) Applied Soft Computing Pattern Recognition ACM Transactions on Graphics ( <b>TOG</b> ) Information Fusion IEEE Transactions on Multimedia International Journal of Computer Vision The Journal of Supercomputing Computer Vision and Image Understanding Computers & Graphics Multidimensional Systems and Signal Processing International Journal of Pattern Recognition and Artificial Intelligence
Conference Reviewer	IEEE Conference on Computer Vision and Pattern Recognition ( <b>CVPR</b> ), 2022, 2023, 2024, 2025 IEEE Conference on Computer Vision ( <b>ICCV</b> ), 2021, 2023, 2025 European Conference on Computer Vision ( <b>ECCV</b> ), 2020, 2022, 2024 British Machine Vision Conference ( <b>BMVC</b> ), 2023, 2024 Asian Conference on Computer Vision ( <b>ACCV</b> ), 2020, 2022, 2024 Conference on Neural Information Processing Systems ( <b>NeurIPS</b> ), 2022, 2023, 2024 International Conference on Learning Representations ( <b>ICLR</b> ), 2022, 2023, 2024, 2025 International Conference on Machine Learning ( <b>ICML</b> ), 2023, 2024 ACM SIGGRAPH ( <b>SIGGRAPH</b> ), 2022, 2023, 2024, 2025 ACM SIGGRAPH Asia ( <b>SIGGRAPH</b> ), 2024, 2025 AAAI Conference on Artificial Intelligence ( <b>AAAI</b> ), 2021, 2022, 2023, 2024, 2025 International Joint Conference on Artificial Intelligence ( <b>IJCAI</b> ), 2021, 2022, 2023, 2024, 2025 ACM International Conference on Multimedia ( <b>MM</b> ), 2018 IEEE International Conference on Multimedia and Expo Workshops ( <b>ICMEW</b> ), 2023 International Conference on Robotics and Automation ( <b>ICRA</b> ), 2023 Conference on Robot Learning ( <b>CoRL</b> ), 2025
Research Mentor	Research Mentor for interns at MediaTek Inc., 2019, 2020, 2021, 2022.
Professional Societies	IEEE student member AAAI student member TAAI member IPPR member

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## Teaching Experiences

Spring 2025	<b>CSCS10017 Signals and Systems</b> , <i>Department of Computer Science, National Yang Ming Chiao Tung University.</i>
Fall 2024	<b>CSIC30107 Video Compression</b> , <i>Department of Computer Science, National Yang Ming Chiao Tung University.</i>
Spring 2024	<b>CSCS10017 Signals and Systems</b> , <i>Department of Computer Science, National Yang Ming Chiao Tung University.</i>

- Fall 2023 **CSIC30107 Video Compression**, *Department of Computer Science, National Yang Ming Chiao Tung University.*
- Spring 2023 **CSIC30107 Video Compression**, *Department of Computer Science, National Yang Ming Chiao Tung University.*
- Spring 2013 **Teaching Assistant of DEE1315 Probability and Statistics with Prof. Hsueh-Ming Hang**, *Department of Electronics Engineering, National Chiao Tung University.*

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## References

- Ph.D. Advisor **Yung-Yu Chuang**, *Professor of Department of Computer Science and Information Engineering, National Taiwan University.*  
✉ cyy@csie.ntu.edu.tw [i](#) [homepage](#)
- M.S. Advisor **Hsueh-Ming Hang**, *Professor of Department of Electronics Engineering, National Chiao Tung University.*  
✉ hmhang@mail.nctu.edu.tw [i](#) [homepage](#)
- Director **Johannes Kopf**, *Director of the Computational Photography Group, Meta.*  
✉ johannes.peter.kopf@gmail.com
- Director **Shaw-Min Lei**, *Director of the Multimedia Technology Development Division, MediaTek Inc.*  
✉ shawmin.lei@mediatek.com
- Manager of Department **Yu-Lin Chang**, *Manager of the Intelligent Vision Processing Department, MediaTek Inc.*  
✉ yulinchang@google.com
- Manager of Department **Chia-Ping Chen**, *Manager of the Intelligent Vision Processing Department, MediaTek Inc.*  
✉ chiaping.chen@mediatek.com
- Research Mentor **Ming-Hsuan Yang**, *Professor of Electrical Engineering and Computer Science, University of California at Merced.*  
✉ mhyang@ucmerced.edu [i](#) [homepage](#)
- Research Mentor **Jia-Bin Huang**, *Associate Professor of Department of Computer Science, University of Maryland, College Park.*  
✉ jbh Huang@umd.edu [i](#) [homepage](#)
- Research Mentor **Yen-Yu Lin**, *Professor of Department of Computer Science, National Yang Ming Chiao Tung University.*  
✉ lin@cs.nctu.edu.tw [i](#) [homepage](#)
- Research Mentor **Wei-Sheng Lai**, *Software Engineer, Google.*  
✉ wlai24@ucmerced.edu [i](#) [homepage](#)
- Research Mentor **Changil Kim**, *Research Scientist, Meta.*  
✉ changil@csail.mit.edu [i](#) [homepage](#)
- Research Mentor **Hung-Yu Tseng**, *Research Scientist, Meta.*  
✉ hytseng0509@gmail.com [i](#) [homepage](#)
- Research Mentor **Chen Gao**, *Research Scientist, Meta.*  
✉ gaochen@meta.com [i](#) [homepage](#)