

Pin-Hung Kuo

Curriculum Vitae

✉ setsunil@gmail.com
📄 <https://setsunil.github.io/>

Education

- Doctor of Philosophy **National Taiwan University**, Taipei, Taiwan
2012 – 2025, Graduate Institute Electronics Engineering [📄 link](#)
Media IC & System Lab [📄 link](#)
Advisor: Shao-Yi Chien
Co-Advisor: Ming-Hsuan Yang [📄 link](#)
Specialization: Deep Learning, Computer Vision, Image Processing
- Master of Science **National Taiwan University**, Taipei, Taiwan
2009 – 2012, Graduate Institute Electronics Engineering
- Bachelor of Science **National Taiwan University**, Taipei, Taiwan
2005 – 2009, Electrical Engineering

Research Interests

Deep Learning and Computer Vision
Efficient AI Models and Self-Attention Mechanisms (Transformer)
Image Restoration (Deblurring, Denoising, Super-Resolution)
Video Coding (HEVC, Distributed Video Coding)

Selected Publications

- ICCV 2025 **Efficient Concertormer for Image Deblurring and Beyond**
Pin-Hung Kuo, Jinshan Pan, Shao-Yi Chien, and Ming-Hsuan Yang
arXiv preprint arXiv:2404.06135, 2025 [📄 paper](#)
- TCSVT 2025 **Efficient Non-Blind Image Deblurring with Discriminative Shrinkage Deep Networks**
Pin-Hung Kuo, Jinshan Pan, Shao-Yi Chien, and Ming-Hsuan Yang
- ECCV 2022 **Learning Discriminative Shrinkage Deep Networks for Image Deconvolution**
Pin-Hung Kuo, Jinshan Pan, Shao-Yi Chien, and Ming-Hsuan Yang
arXiv preprint arXiv:2111.13876, 2021 [📄 paper](#)

Research Experience

- Research Intern **Google**
○ Nov. 2022 – Jan. 2023, Xindian, Taiwan
○ July. 2022 – Oct. 2022, Mountain View, USA
- Research Assistant **GIEE, National Taiwan University**
○ Nov. 2019 – Present
○ Advisor: Shao-Yi Chien
○ Topics: Deep Learning, Computer Vision

Technical Skills

Programming Python, C/C++, Verilog

Frameworks and Toolboxes PyTorch, Tensorflow, JAX, MATLAB, OpenCV

Professional Activities

- Conference Reviewer
- IEEE Winter Conference on Applications of Computer Vision (**WACV**), 2022
 - IEEE International Conference on Computer Vision (**ICCV**), 2021
 - IEEE Conference on Computer Vision and Pattern Recognition (**CVPR**), 2021, 2018, 2017
 - IEEE International Conference on Multimedia & Expo (**ICME**), 2017
 - International Conf. on Acoustics, Speech, & Signal Processing (**ICASSP**), 2016, 2015
 - IEEE International Symposium on Circuits and Systems(**ISCAS**), 2015, 2014
 - International Symposium on VLSI Design, Automation and Test(**VLSI-DAT**), 2016
 - VLSI Design/CAD Symposium, 2014
- Journal Reviewer
- International Journal of Computer Vision (**IJCV**)
 - IEEE Transactions on Pattern Analysis and Machine Intelligence (**TPAMI**)
 - IEEE Transactions on Multimedia (**TMM**)
 - IEEE Transaction on Image Processing (**TIP**)
 - IEEE Transactions on Circuits and Systems for Video Technology (**TCVST**)
 - Journal on Advances in Signal Processing (**EURASIP**)
 - Circuits, Systems, and Signal Processing

Honors and Awards

- Award **GIEE Annual Award**, National Taiwan University, Jan. 2011
- Award **Third Award of the 2010 Embedded System Design Contest**, Ministry of Education, Taiwan, Jun. 2010
- Award **Third Award of the 2010 Innovate Asia Altera Design Contest**, Altera, Dec. 2010
- Scholarship **Class A Scholarship**, National Taiwan University, Sep. 2012 - Jun. 2016
Top 10% of students in one academic year

Teaching Experience

- Teaching Assistant **EE/GIEE, National Taiwan University**, Taipei, Taiwan
- EEE 5029: Multimedia System-on-Chip Design (Spring 2018, Spring 2016)
 - EE 5141: Digital Signal Processing in VISI Design (Fall 2016)
 - EE 2013: Electronics (II) (Spring 2016)
 - EE 5091: Digital Video Technology (Fall 2015)
 - EE 2012: Switching Circuit and Logic Design (Fall 2014, Fall 2013)

References

- Ph.D. Advisor **Shao-Yi Chien**, *Professor*, National Taiwan University, Taipei, Taiwan
✉ sychien@ntu.edu.tw [📄 homepage](#)
- Ph.D. Co-Advisor **Ming-Hsuan Yang**, *Professor*, University of California, Merced, USA
✉ mhyang@ucmerced.edu [📄 homepage](#)
- Research Mentor **Jinshan Pan**, *Professor*, Nanjing University of Science and Technology, China
✉ sdluran@gmail.com [📄 homepage](#)

Other Experience

Substitute Military **Traffic Police Corps**, Kaohsiung, Taiwan
Service

- Information Technology Department, Jan. 2019 - Oct. 2019