

# Kuan-Wei Tseng

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## Education

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National Taiwan University, Taipei, Taiwan (September 2016- June 2020)

*Bachelor of Science in Engineering, Department of Mechanical Engineering*

University of Oxford, Oxford, UK (July 2017- August 2017)

*Advanced Humanity and English Language Program*

## Experience

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Research Associate (Feb. 2021 - Present)

Research Assistant (Sep. 2019 - Feb. 2021)

*Dept. of Computer Science and Information Engineering,  
National Taiwan University, Taiwan*

- Develop image and video processing algorithms with deep learning and 3D computer vision.
- Develop localization algorithm for augmented reality using visual-inertial fusion.
- Develop multimedia systems with multi-sensory feedback for virtual and augmented reality.

Teaching Assistant (Spring 2018, Spring 2021)

*National Taiwan University, Taiwan*

- [JpnL3048] Japanese (II), Spring 2018.
- [CSIE 5429] 3D Computer Vision with Deep Learning Applications, Spring 2021.
- [CSIE 5079] Pattern Analysis and Classification, Spring 2021.

## Selected Publications

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- [1] Yao-Chih Lee, **Kuan-Wei Tseng**, Yu-Ta Chen, Chien-Cheng Chen, Chu-Song Chen, Yi-Ping Hung, "3D Video Stabilization with Depth Estimation by CNN-based Optimization", IEEE Conference on Computer Vision and Pattern Recognition (CVPR), 2021.
- [2] Yu-Ta Chen, **Kuan-Wei Tseng**, Yao-Chih Lee, Chun-Yu Chen, Yi-Ping Hung, "PixStabNet: Fast Multi-Scale Deep Online Video Stabilization with Pixel-Based Warping", IEEE International Conference on Image Processing (ICIP), 2021.

## Honors

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Best Paper Award

- "Camera Relocalization Using Deep Learning Method", IPPR Conference on Computer Vision, Graphics, and Image Processing (CVGIP), Taiwan, 2020.

Scholarships

- Kobe University Funds, Summer Program in Japanese Language and Culture, Japan, 2019.
- JASSO Student Exchange Support Program, Short-Term Japanese Language Program (NUSTEP), Nagoya University, Japan, 2018.

## Skills

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- Domain Expertise: Computer Vision, Robotics, SLAM, Sensor Fusion, Deep Learning
- Programming Language: C++, Python, MATLAB, SQL, HTML, LATEX, ...