

Meng-Yu Jennifer Kuo, PhD

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| CONTACT INFORMATION | Email: mengyu.j.kuo@gmail.com Homepage: https://jk-vision.github.io |
| EDUCATION | Kyoto University, Kyoto, Japan April 2017 - Sept. 2021 Ph.D. <i>Department of Intelligence Science and Technology, Graduate School of Informatics</i> Thesis: “Refraction and Absorption for Underwater Shape Recovery” Advisors: Professor Shohei Nobuhara and Professor Ko Nishino Kyoto University, Kyoto, Japan April 2015 - March 2017 M.S. <i>Department of Intelligence Science and Technology, Graduate School of Informatics</i> Thesis: “One-shot Underwater Active Stereo Through Refractive Parallel Flat Surfaces” National Chung Cheng University, Chiayi, Taiwan Sept. 2010 - June 2014 B.S. <i>Department of Computer Science and Information Engineering, College of Engineering</i> Thesis: “Glass-free Interactive 3D Model Projection System” |
| SKILLS | Programming Python (OpenCV, Numpy, SciPy, Scikit-learn, Open3D, Matplotlib, Pytorch), C++ |
| HONORS AND AWARDS | Kobayashi International Scholarship April 2017 - March 2020 DOCOMO International Student Scholarship April 2015 - March 2017 International ICT Innovative Services Contest 2013 - Third Place Nov. 2013 |
| RESEARCH INTERESTS | 3D Computer Vision, 3D sensing, computational photography, physics-based vision, structure-from-motion |
| EMPLOYMENT AND EXPERIENCE | University of Minnesota, Twin Cities Jan. 2022 - Postdoctoral Associate - 3D Human Reconstruction Kyoto University, Kyoto, Japan April 2020 - Sept. 2021 Research Assistant - Underwater 3D Reconstruction Funtap, Kyoto, Japan Jan. - Feb. 2018 Software Engineer Part Time - Optical Character Recognition Sony Corporation, Tokyo, Japan Feb. 2016 R&D Engineering Intern - Camera Self-calibration |
| JOURNAL | Meng-Yu Jennifer Kuo , Satoshi Murai, Ryo Kawahara, Shohei Nobuhara, Ko Nishino, “Surface Normals and Shape From Water”, in IEEE Trans. on Pattern Analysis and Machine Intelligence (TPAMI), October 2021. Meng-Yu Jennifer Kuo , Ryo Kawahara, Shohei Nobuhara, Ko Nishino, “Non-Rigid Shape From Water”, in IEEE Trans. on Pattern Analysis and Machine Intelligence (TPAMI), vol. 43, no. 7, pp. 2220-2232, July 2021. |
| INTERNATIONAL CONFERENCE | Ryo Kawahara, Meng-Yu Jennifer Kuo , Shohei Nobuhara, “Teleidoscopic Imaging System for Microscale 3D Shape Reconstruction”, Computer Vision and Pattern Recognition Conference (CVPR), 2023. Ryo Kawahara, Meng-Yu Jennifer Kuo , Takahiro Okabe, “Polarimetric Underwater Stereo”, Scandinavian Conference on Image Analysis (SCIA), 2023. Meng-Yu Jennifer Kuo , Ryo Kawahara, Shohei Nobuhara, Ko Nishino, “Non-Rigid Shape from Water”, International Conference on Computational Photography (ICCP), 2021. (Paper talk) Ryo Kawahara, Meng-Yu Jennifer Kuo , Shohei Nobuhara, and Ko Nishino, “Appearance and Shape from Water Reflection”, Winter Conference on Applications of Computer Vision (WACV), 2020. (Best Paper Finalist) Satoshi Murai*, Meng-Yu Jennifer Kuo* , Ryo Kawahara, Shohei Nobuhara, and Ko Nishino, “Surface Normals and Shape From Water”, International Conference on Computer Vision (ICCV), 2019. (Oral, 4.3%) (*Equal contribution) |