

# Meng-Yu Jennifer Kuo, PhD

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CONTACT INFORMATION      Email: kuo00052@umn.edu  
Homepage: <https://myjk1992.github.io>

EDUCATION      **Kyoto University, Kyoto, Japan**  
Ph.D. | *Department of Intelligence Science and Technology, Graduate School of Informatics*  
April 2017 - Sept. 2021  
“Refraction and Absorption for Underwater Shape Recovery”  
Advisors: Associate Professor Shohei Nobuhara, nob@i.kyoto-u.ac.jp  
Professor Ko Nishino, nishino.ko.5a@kyoto-u.ac.jp

**Kyoto University, Kyoto, Japan**  
M.S. | *Department of Intelligence Science and Technology, Graduate School of Informatics*  
April 2015 - March 2017  
“One-shot Underwater Active Stereo Through Refractive Parallel Flat Surfaces”  
Advisors: Professor Takashi Matsuyama and Associate Professor Shohei Nobuhara

**National Chung Cheng University, Chiayi, Taiwan**  
B.S. | *Department of Computer Science and Information Engineering, College of Engineering*  
Sept. 2010 - June 2014  
“Glass-free Interactive 3D Model Projection System”  
Advisor: Professor Damon Shing-Min Liu

HONORS AND AWARDS      Kobayashi International Scholarship      April 2017 - March 2020  
DOCOMO International Student Scholarship      April 2015 - March 2017

RESEARCH INTERESTS      Computer vision, 3D sensing(in water), computational photography, physics-based vision, structure-from-motion, and multiple view geometry

EMPLOYMENT AND EXPERIENCE      **University of Minnesota, Twin Cities**      **Jan. 2022 - present**  
Postdoctoral Associate

**Kyoto University, Kyoto, Japan**      April 2020 - Sept. 2021  
Research Assistant

**Sony Corporation, Tokyo, Japan**      Feb. 2016  
R&D Engineering Intern - 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), 2021 (Accepted, in press).

**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      **Meng-Yu Jennifer Kuo**, Ryo Kawahara, Shohei Nobuhara, Ko Nishino, “Non-Rigid Shape from Water”, in Proc. of 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”, in Proc. of 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”, in Proc. of International Conference on Computer Vision (ICCV), 2019. (**Oral, 4.3%**) (\*Equal contribution)

SKILLS

**Language** Chinese (native), English (fluent), Japanese (intermediate, JLPT: N2)

**Programming** Python, C/C++