

CURRICULUM VITAE

Hsin-Hung Lin



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Current Position: Postdoctoral Research Fellow, Institute of Statistical Science, Academia Sinica.

Expertise: Biophysics, Protein structure analysis, Cryo-EM image data analysis

Education:

- Sep. 2014 – May. 2022 Ph. D., Chemical Biology and Molecular Biophysics Program, Taiwan International Graduate Program (TIGP), Academia Sinica. Department of Chemistry, National Tsing Hua University, HsinChu, Taiwan.
- Sep. 2009 – Jun. 2013 B. S., Department of Electrophysics, National Chiao Tung University, HsinChu, Taiwan

Working Experience:

- Aug. 2022 – Sep. 2022 Postdoctoral Research Fellow, Institute of Chemistry, Academia Sinica. (Under direction of Prof. Dr. Wei-Hau Chang)
- Oct. 2022 – current Postdoctoral Research Fellow, Institute of Statistical Science, Academia Sinica. (Under direction of Prof. Dr. I-Ping Tu)

Journal Publications:

1. Chung, S. C.; **Lin, Hsin-Hung**; Niu, P. Y.; Huang, S. H.; Tu, I. P.; Chang, W. H. Pre-pro Is a Fast Pre-Processor for Single-Particle Cryo-EM by Enhancing 2D Classification. *Communications Biology* **2020**, *3*:1 **2020**, *3* (1), 1–12. <https://doi.org/10.1038/s42003-020-01229-0>.
2. Chang, W.-H.; Huang, S.-H.; **Lin, Hsin-Hung**; Chung, S.-C.; Tu, I.-P. Cryo-EM Analyses Permit Visualization of Structural Polymorphism of Biological Macromolecules. *Frontiers in Bioinformatics* **2021**, *0*, 74. <https://doi.org/10.3389/FBINF.2021.788308>.
3. Chan, S. I.; Chang, W. H.; Huang, S. H.; **Lin, Hsin-Hung**; Yu, S. S. F. Catalytic Machinery of Methane Oxidation in Particulate Methane Monooxygenase (PMMO). *J Inorg Biochem* **2021**, *225*, 111602. <https://doi.org/10.1016/J.JINORGBIO.2021.111602>.
4. Chang, W. H.; **Lin, Hsin-Hung**; Tsai, I. K.; Huang, S. H.; Chung, S. C.; Tu, I. P.; Yu, S. S. F.; Chan, S. I. Copper Centers in the Cryo-EM Structure of Particulate Methane Monooxygenase

Reveal the Catalytic Machinery of Methane Oxidation. *J Am Chem Soc* **2021**, *143* (26), 9922–9932. https://doi.org/10.1021/JACS.1C04082/SUPPL_FILE/JA1C04082_SI_001.PDF.

Conference:

1. Mar. 13 – 18, 2016 International Symposium on Grids and Clouds (ISGC), Taipei, Taiwan
2. Mar. 05 – 10, 2017 International Symposium on Grids and Clouds (ISGC), Taipei, Taiwan
3. Mar. 16 – 23, 2018 International Symposium on Grids and Clouds (ISGC), Taipei, Taiwan
4. Sep. 02 – 07, 2018 Academia Sinica Cryo-EM Center (ASCEM) Grand Opening Symposium & Workshop, Taipei, Taiwan
5. Oct. 25, 2018 The Cryo-EM Revolution and Future Breakthroughs, Tokyo, Japan
6. Aug. 04 – 08, 2019 Microscope and Microanalysis (M&M), Portland, US