

# Stanford

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## Yuan-Chi Huang

Postdoctoral Research Fellow, Chemical and Systems Biology

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#### PROFESSIONAL EDUCATION

- Doctor of Philosophy, University of California Berkeley (2016)
- Bachelor of Science, National Taiwan University (2010)

#### STANFORD ADVISORS

- James Ferrell, Postdoctoral Faculty Sponsor

#### LINKS

- Personal Website: <http://www.williamychuang.org/>
- Google Scholar: [https://scholar.google.com/citations?hl=en&user=\\_Yn4grYAAAAJ&view\\_op=list\\_works&sortby=pubdate](https://scholar.google.com/citations?hl=en&user=_Yn4grYAAAAJ&view_op=list_works&sortby=pubdate)

### Publications

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#### PUBLICATIONS

- **Stochastic geometry sensing and polarization in a lipid kinase-phosphatase competitive reaction.** *Proceedings of the National Academy of Sciences of the United States of America*  
Hansen, S. D., Huang, W. Y., Lee, Y. K., Bieling, P., Christensen, S. M., Groves, J. T.  
2019
- **A molecular assembly phase transition and kinetic proofreading modulate Ras activation by SOS.** *Science (New York, N.Y.)*  
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- **Dynamic Structure and Chemistry of the Silicon Solid-Electrolyte Interphase Visualized by Cryogenic Electron Microscopy** *Matter*  
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- **Proceedings of the fifth international RASopathies symposium: When development and cancer intersect.** *American journal of medical genetics. Part A*  
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- **Allosteric Modulation of Grb2 Recruitment to the Intrinsically Disordered Scaffold Protein, LAT, by Remote Site Phosphorylation** *JOURNAL OF THE AMERICAN CHEMICAL SOCIETY*  
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- **Phosphotyrosine-mediated LAT assembly on membranes drives kinetic bifurcation in recruitment dynamics of the Ras activator SOS** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*  
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- **E-cadherin junction formation involves an active kinetic nucleation process** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*  
Biswas, K. H., Hartman, K. L., Yu, C., Harrison, O. J., Song, H., Smith, A. W., Huang, W. C., Lin, W., Guo, Z., Padmanabhan, A., Troyanovsky, S. M., Dustin, M. L., Shapiro, et al  
2015; 112 (35): 10932–37
- **Importin-beta modulates the permeability of the nuclear pore complex in a Ran-dependent manner** *ELIFE*  
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- **H-Ras forms dimers on membrane surfaces via a protein-protein interface** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*  
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- **Depletion of Water Molecules Near the End Stage of Steric Zipper Formation** *JOURNAL OF THE CHINESE CHEMICAL SOCIETY*  
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- **Steric Zipper Formed by Hydrophobic Peptide Fragment of Syrian Hamster Prion Protein** *BIOCHEMISTRY*  
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