

Stanford



Jiayi Dou

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PROFESSIONAL EDUCATION

- Doctor of Philosophy, University of Washington (2017)
- Bachelor of Science, University of Science and Technology of China (2010)

PATENTS

- David Baker, Christine Tinberg, Sagar Khare, Jiayi Dou. "United States Patent 9840539 High affinity digoxigenin binding proteins", University Of Washington, Dec 12, 2017

Publications

PUBLICATIONS

- **HARNESSING BACKBONE STRAIN TO DESIGN BETA-BARREL PROTEINS DE NOVO: FROM FIRST PRINCIPLES TO APPLICATION**
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- **Improving the Efficiency of Ligand-Binding Protein Design with Molecular Dynamics Simulations.** *Journal of chemical theory and computation*
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- **De novo design of a fluorescence-activating beta-barrel.** *Nature*
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- **Sampling and energy evaluation challenges in ligand binding protein design** *PROTEIN SCIENCE*
Dou, J., Doyle, L., Greisen, P., Schena, A., Park, H., Johnsson, K., Stoddard, B. L., Baker, D.
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- **Principles for designing proteins with cavities formed by curved beta sheets** *SCIENCE*
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- **CSAR Benchmark Exercise 2013: Evaluation of Results from a Combined Computational Protein Design, Docking, and Scoring/Ranking Challenge** *JOURNAL OF CHEMICAL INFORMATION AND MODELING*
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- **Computational design of ligand-binding proteins with high affinity and selectivity** *NATURE*
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