



Alexander Kaiser

Postdoctoral Research Fellow, Cardiology

 Curriculum Vitae available Online

Bio

BIO

Alexander D. Kaiser is an applied mathematician who researches modeling and simulation of heart mechanics. His doctoral work focused on the mitral valve. He currently works in the Stanford Cardiovascular Biomechanics Computation Laboratory, led by Alison Marsden, on modeling cardiac disease.

HONORS AND AWARDS

- Mechanisms and Innovation in Cardiovascular Disease T32 training grant, Cardiovascular Institute, Stanford University (6/2018)
- Kurt O. Friedrichs Prize for Outstanding Dissertation in Mathematics, Courant Institute of Mathematical Sciences, New York University (4/2018)
- Thomas Tyler Bringley Fellowship, Courant Institute of Mathematical Sciences, New York University (4/2016)
- Math Master's Thesis Prize, Courant Institute of Mathematical Sciences, New York University (4/2014)
- NSF Graduate Research Fellowship, National Science Foundation (4/2013)

BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Postdoctoral scholar, Institute for Computational & Mathematical Engineering, Stanford University (2018 - present)
- Postdoctoral scholar, Cardiovascular Institute, Stanford University (2018 - present)

PROFESSIONAL EDUCATION

- Doctor of Philosophy, New York University , Mathematics (2017)
- Master of Science, New York University , Mathematics (2013)
- Bachelor of Arts, University of California, Berkeley , Mathematics (2009)

STANFORD ADVISORS

- Doff McElhinney, Postdoctoral Research Mentor
- Alison Marsden, Postdoctoral Faculty Sponsor

Research & Scholarship

LAB AFFILIATIONS

- Alison Marsden, Cardiovascular Biomechanics Computation Laboratory (11/1/2017)

Publications

PUBLICATIONS

- **Modeling the mitral valve.** *International journal for numerical methods in biomedical engineering*
Kaiser, A. D., McQueen, D. M., Peskin, C. S.
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