

Stanford



Seraina Dual

Postdoctoral Research Fellow, Cardiothoracic Surgery

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Seraina A. Dual is a postdoctoral fellow at the departments of the Cardiothoracic Surgery at Stanford Medicine and Mechanical Engineering at Stanford University, mentored by Prof. Doff McElhinney and Prof. Alison Marsden respectively. She graduated with a bachelor's degree from the Federal Institute of Technology Zurich (ETH Zurich) in Mechanical Engineering in 20, a master's degree at ETH Zurich in Mechanical Engineering with a specialization in robotics and biomedical application with Prof. Roger Gassert, and her Dr. of science at ETH Zurich in Mechanical Engineering with Prof. Mirko Meboldt. During this time, she spent some time with Prof. Ellen Kuhl at Stanford University (Bsc.), with Prof. Theo Chee Leong at National University of Singapore (Msc.), and with Prof. Christopher Hayward at the St. Vincent's Hospital in Sydney (Dsc.). Her work focuses on developing dynamic systems, algorithms, and sensors inspired by her background in engineering and control methodology to either improve our pathophysiological understanding of disease or enable physiological interaction of patients with intelligent medical devices.

PROFESSIONAL EDUCATION

- Doctor of Science, Unlisted School (2019)
- Master of Science, Unlisted School (2015)
- Bachelor of Science, Unlisted School (2012)
- DSc., ETH Zurich , Mechanical Engineering (2019)
- MSc., ETH Zurich , Mechanical Engineering - Robotics and Biomedical (2015)
- BSc., ETH Zurich , Mechanical Engineering (2012)

STANFORD ADVISORS

- Doff McElhinney, Postdoctoral Faculty Sponsor