

Stanford



Yousi Angeli Oquendo

MD Student, expected graduation Spring 2022

Bio

BIO

Yousi (Josey) is a third year MD student at Stanford University. She is a member of the Collaborative Haptics and Robotics in Medicine (CHARM) Lab under the direction of Dr. Allison Okamura, where her research focus lies in training for robotic surgery. More specifically, her interest lies in the use of virtual reality, haptics and error augmentation in surgical training paradigms.

Josey has a Bachelor of Science in Engineering (B.S.E.) degree with a major in Bioengineering and a minor in Mechanical Engineering and Applied Mechanics from the University of Pennsylvania. She also completed a Master of Science in Robotics Engineering (M.S.E.) from the University of Pennsylvania under the direction of Dr. Katherine J. Kuchenbecker. She was a member of Dr. Kuchenbecker's Haptics Group in the General Robotics, Automation, Sensing, and Perception (GRASP) Lab, where she was interested in measurement and assessment of surgical skill in minimally invasive laparoscopic surgery using magnetic motion tracking and machine learning algorithms. In addition to her work in the GRASP Lab, Josey conducted research in a variety of other fields, including Pediatric Emergency Medicine, Cardiothoracic Surgery, and Radiological Imaging.

EDUCATION AND CERTIFICATIONS

- Master of Science (M.S.E.), University of Pennsylvania , Robotics Engineering (2016)
- Bachelor of Science (B.S.E.), University of Pennsylvania , Bioengineering, Mechanical Engineering (2015)

SERVICE, VOLUNTEER, AND COMMUNITY WORK

- Clinic Co-Coordinator (3/2018 - 3/2019)

Research & Scholarship

RESEARCH PROJECTS

- Robot-Assisted Surgical Training in a Complex Virtual Surgical Environment with Divergent and Convergent Force Fields - Stanford University

LAB AFFILIATIONS

- Allison Okamura, Collaborative Haptics and Robotics in Medicine (CHARM) Lab (1/8/2018)

Professional

WORK EXPERIENCE

- Teaching Assistant, Regional Study of Human Structure (SURG 101) - Stanford University School of Medicine (1/2019 - 3/2019)
- Clinical Development Engineering Intern - Intuitive Surgical (6/2018 - 12/2018)

Publications

PUBLICATIONS

- **AORTIC ROOT DILATION IN ADULT MARFAN PATIENTS: DOES AORTIC ROOT STIFFNESS MATTER?**
Cox, K., Oquendo, J., Chen, A., Liang, D., Tierney, E.
ELSEVIER SCIENCE INC.2019: 1521
- **Injectable Shear-Thinning Hydrogels Prevent Ischemic Mitral Regurgitation and Normalize Ventricular Flow Dynamics.** *Seminars in thoracic and cardiovascular surgery*
Rodell, C. B., Zhang, Z. L., Dusaj, N. N., Oquendo, Y., Lee, M. E., Bouma, W., Gorman, J. H., Burdick, J. A., Gorman, R. C.
2019
- **Automatically rating trainee skill at a pediatric laparoscopic suturing task**
Oquendo, Y. A., Riddle, E. W., Hiller, D., Blinman, T. A., Kuchenbecker, K. J.
SPRINGER.2018: 1840–57
- **Cecal ligation and puncture accelerates development of ventilator-induced lung injury** *AMERICAN JOURNAL OF PHYSIOLOGY-LUNG CELLULAR AND MOLECULAR PHYSIOLOGY*
Yehya, N., Xin, Y., Oquendo, Y., Cereda, M., Rizi, R. R., Margulies, S. S.
2015; 308 (5): L443–L451