DIMITRI SCHREIBER

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EDUCATION

University of California San Diego: Electrical Engineering

Ph.D., Intelligent Systems Robotics and Controls — Expected *Spring 2022*
MS, Intelligent Systems Robotics and Controls, GPA 3.64 — *April 2020*
BS, GPA 3.74, *Cum Laude*, *Department Honors with Highest Distinction* — *June 2017*

RESEARCH EXPERIENCE

UCSD, Department of Electrical and Computer Engineering *2017 - present*
Doctoral Research, Professor Michael Yip

- Designed and built highly dexterous 7-Degree-of-Freedom (DoF) and 8-DoF robotic arms for needle manipulation within confined CT and MRI bores
- Co-lead a team sponsored by the NASA JPL EELS mission which developed a serpentine robot with an active Archimedes screw skin.

NSF REU with Engineers for Exploration *2016*
Undergraduate Research Assistant, Professor Ryan Kastner

- Applied deep learning methods to automate coral reef point cloud and image pixel-wise classification, demonstrating large-scale long-term quantitative ecological coral reef ecology study feasibility
- Developed and mounted CondorCam for a California condor to visualize the first "birds-eye-view"

UCSD, Department of Structural Engineering *2014-2016*
Undergraduate Research Assistant, Professor Falko Kuester

- Designed and built a two-axis stereo camera gimbal for digital preservation and dissemination of historic sites, providing increased ease of use, lower cost, and improved data providence.

PUBLICATIONS

Schreiber, D.A.*; et al. ARCSnake: An Archimedes' Screw-Propelled, Reconfigurable Robot Snake for Complex Environments. IEEE/RSJ International Conference on Robotics and Automation (ICRA). 2020.

Schreiber, D. A.; et al. CRANE: A highly dexterous needle placement robot for evaluation of interventional radiology procedures. IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS). Workshop on Intelligent Robot Interactions with Anatomy. 2019.

Schreiber , D. A.; Shak, D.; Norbash , A.; Yip, M. An Open-Source 7-Axis, Robotic Platform to Enable Dexterous Procedures within CT Scanners. IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS). 2019.

HONORS AND AWARDS

Shah Family Fellowship *2020*
NSF Graduate Research Fellowship *2019*
ARCS Foundation Scholarship *2018, 2019*