

Julia Di

U.S. Citizen | 566 Arguello Way, Apt 254 Stanford, CA 94305, USA
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EDUCATION	Stanford University , Stanford, CA, USA Ph.D. in Mechanical Engineering Minor in Entrepreneurship Sep 2018 – Jun 2024 Courses: Advanced Robotic Manipulation, Multi-Limbed Manipulation, Deep Learning, Applied Machine Learning, ME218: Mechatronics, Building an Aerospace Startup
	Columbia University , New York, NY, USA B.S. in Electrical Engineering Minor in Computer Science Aug 2014 – May 2018 GPA: 3.90 / 4.00 <i>Magna Cum Laude</i>
WORK EXPERIENCE	NASA Jet Propulsion Laboratory , Pasadena, CA, USA NASA Space Technology Research Fellow (NSTRF) Jun 2019 – Aug 2019 • Design inherently flexible fold angle detection sensors for origami-inspired robots
	Generation Orbit Launch Services, Inc. , Atlanta, GA, USA Brooke Owens Fellow May 2018 – Jul 2018 • Designed flight computer and other key circuit boards for hypersonic Air Force rocket X-60A
	Lockheed Martin Space Systems , Sunnyvale, CA, USA Electro-Optical Engineering Research Intern Jun 2017 – Aug 2017 • Developed algorithms on FPGAs for aerial realtime onboard image processing capabilities
	NASA Marshall Space Flight Center , Huntsville, AL, USA Robotics Academy Research Associate Jun 2016 – Aug 2016 • Designed and tested a 3 DOF robotic arm with electrostatic gripper to capture orbital debris
	Biomimetics and Dexterous Manipulation Lab , Stanford University NASA NSTRF Graduate Fellow, Mechanical Engineering Department Dec 2018 – present • Developing tactile sensors and multimodal sensor algorithms for robotic perception
RESEARCH EXPERIENCE	CHARM Lab , Stanford University NASA NSTRF Graduate Fellow, Mechanical Engineering Department Sep 2018 – Dec 2018 • Building a soft sensor array for detecting finger location on a multimodal haptic skin
	Creative Machines Lab , Columbia University Undergraduate Research Assistant, Mechanical Engineering Department Sep 2016 – May 2018 • Built a 3D-printed quadruped with image recognition capabilities as a machine learning platform
	Columbia Laboratory for Unconventional Electronics , Columbia University Undergraduate Research Assistant, Electrical Engineering Department Jan 2015 – May 2015 • Designed and constructed an ion sputterer to microfabricate thin-film bulk acoustic resonators
	Columbia Space Initiative , Columbia University Co-Founder and Co-President Sep 2015 – Mar 2017 • Accepted to three technical NASA challenges and featured in University's Fall 2016 magazine
	Women in Computer Science , Columbia University President Apr 2015 – May 2018 • Through WiCS mentorship and scholarship efforts, department became 45% female in Fall 2017
SELECTED LEADERSHIP EXPERIENCE	Columbia MakerSpace , Columbia University Superuser Apr 2016 – May 2018 • Responsible for weekly office hours to teach students about prototyping and 3D printing skills
	HONORS & AWARDS
	TVF Entrepreneurial Leaders Fellow , Stanford University Nov 2018 – Jun 2019
	Brooke Owens Fellow , Brooke Owens Fellowship Jan 2018
	King's Crown Leadership and Excellence Award , Columbia University Apr 2017
LANGUAGES	Aviation Week's Top 20 Twenties Laureate , Aviation Week Magazine Feb 2017
	Python • Julia • C/C++ • Verilog • VHDL • MatLab • \LaTeX • HTML • Java • LabView
SKILLS	3D Printing • Deep Learning • Git • Machine Learning • Microcontrollers • PCBs • Perception