

Julia Di

U.S. Citizen

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EDUCATION	Stanford University , Stanford, CA, USA M.S. in Mechanical Engineering Courses: Advanced Dynamics and Controls, Deep Learning, Decision Making Under Uncertainty, ME218: Mechatronics, Building an Aerospace Startup from the Ground Up Sep 2018 – Jun 2020
	Columbia University , New York, NY, USA B.S. in Electrical Engineering Minor in Computer Science GPA: 3.90 / 4.00 <i>Magna Cum Laude</i> Aug 2014 – May 2018
WORK EXPERIENCE	NASA Jet Propulsion Laboratory , Pasadena, CA, USA NASA Space Technology Research Fellow (NSTRF) • Design inherently flexible fold angle detection sensors for origami-inspired robots Jun 2019 – Aug 2019
	Generation Orbit Launch Services, Inc. , Atlanta, GA, USA Brooke Owens Fellow, Avionics Intern • Designed flight computer and other key circuit boards for hypersonic Air Force rocket X-60A May 2018 – Jul 2018
	Lockheed Martin Space Systems , Sunnyvale, CA, USA Electro-Optical Engineering Research Intern • Developed algorithms on FPGAs for aerial realtime onboard image processing capabilities Jun 2017 – Aug 2017
	NASA Marshall Space Flight Center , Huntsville, AL, USA Robotics Academy Research Associate • Designed and tested a 3 DOF robotic arm with electrostatic gripper to capture orbital debris Jun 2016 – Aug 2016
RESEARCH EXPERIENCE	Biomimetics and Dexterous Manipulation Lab , Stanford University NASA Graduate Fellow, Mechanical Engineering Department • Designing sensor hardware and software for multi-quadrotor manipulation for disaster relief Dec 2018 – present
	CHARM Lab , Stanford University NASA Graduate Fellow, Mechanical Engineering Department • Building a soft sensor array for detecting finger location on a multimodal haptic skin Sep 2018 – Dec 2018
	Creative Machines Lab , Columbia University Undergraduate Research Assistant, Mechanical Engineering Department • Built a 3D-printed quadruped with image recognition capabilities as a machine learning platform Sep 2016 – May 2018
	Columbia Laboratory for Unconventional Electronics , Columbia University Undergraduate Research Assistant, Electrical Engineering Department • Designed and constructed an ion sputterer to microfabricate thin-film bulk acoustic resonators Jan 2015 – May 2015
SELECTED LEADERSHIP EXPERIENCE	Columbia Space Initiative , Columbia University Co-Founder and Co-President • Accepted to three technical NASA challenges and featured in University's Fall 2016 magazine Sep 2015 – Mar 2017
	Women in Computer Science , Columbia University President • Through WiCS mentorship and scholarship efforts, department became 45% female in Fall 2017 Apr 2015 – May 2018
	Columbia MakerSpace , Columbia University Superuser • Responsible for weekly office hours to teach students about prototyping and 3D printing skills Apr 2016 – May 2018
HONORS & AWARDS	Interact Fellow , San Francisco Apr 2020 – present
	TVF Entrepreneurial Leaders Fellow , Stanford University Nov 2018 – Jun 2019
	Brooke Owens Fellow , Brooke Owens Fellowship Jan 2018
	Aviation Week's Top 20 Twenties Laureate , Aviation Week Magazine Feb 2017
LANGUAGES	Python • Julia • C/C++ • Verilog • VHDL • MatLab • \LaTeX • HTML • Java • LabView
SKILLS	3D Printing • Deep Learning • Git • Machine Learning • PCBs • Perception • Robotics