## Jack Reid

jackreid@mit.edu • jack.b.reid@gmail.com • media.mit.edu/people/jackreid •  $R\'esum\'e current \ as \ of \ April \ 8, \ 2022$ 

## Skills

Earth Observation Data Analysis	Forest health, land use/cover, urban nightlights, machine learning	
Modeling	Complex systems, discrete event, agent-based, system dynamics	
Economy & Policy Analysis	Microeconomics, ecosystem services, policy frameworks	
Decision Support Systems	Remote observation, GIS, econometric, public health	
Aerospace Systems Engineering	Satellite design, systems architecture, requirements writing	
Coding	Python, Javascript, MATLAB, Bash, Google Earth Engine	
	Education	
Massachusetts Institute of Technology	ology	
Expected	Graduation: August 2022 GPA: 5.0/5.0	
Massachusetts Institute of Techno	ology 2015-2018	
Master of Science in Tech	nology & Policy; Master of Science in Aerospace Engineering aduation: May 2018 GPA: 4.9/5.0	
Texas A&M University		
· · · · · · · · · · · · · · · · · · ·	Mechanical Engineering; Bachelor of Art in Philosophy	
	Honors Minor in Mathematics	
Gra	duation: May 2015 GPA: 3.98/4.0	
	Research & Employment	
RAND Corporation, Summer As Built a generalized early warning	sign new remote observation platforms to better suit their needs.  sociate	
	ne US homeland by hypersonic cruise missiles	
Research on various systems engi complexity, emergent behavior, a	rch Initiative, Graduate Researcher 08/2015 - 05/2018 neering topics, primarily for the defense sector, on model integration, and the non-technical and policy issues that surround them. Totential changes and improvements to the US defense acquisition	
Conducted technology forecasting	sociate	
Worked on shock and vibration	avironmental Testing Researcher 06/2015 - 08/2015 simulation, development of improved shock and vibration testing s, as well as control system malfunction diagnosis and repair.	
Conducted research in the Plasm spheric pressure plasmas more particular as mitigating the tactile particular.	esearcher	

- S. Jung, E. Joiner, J. Reid, and D. Wood, "Gaps in Mangrove Forest Data and Valuation Methods Limit Understanding of Socioeconomic Benefits." *Review of Environmental Economics and Policy*, [Publication Pending].
- J. Reid, et al., "International Collaboration Aimed at Identifying Relevant Social, Policy, and Environmental Factors in the Progression of SARS-CoV2/COVID-19 in Six Metropolitan Areas." 2021 AGU Fall Meeting, New Orleans, LA..
- J. Reid, et al., "Vida Decision Support System: An International, Collaborative Project for COVID-19 Management with Integrated Modeling." 2021 International Astronautical Congress, Dubai, UAE. [Available online: https://dspace.mit.edu/handle/1721.1/138106].
- J. Reid et al., "The Vida Decision Support System: An Integrated Modeling Framework to Inform and Monitor Regional COVID-19 Responses." 2020 AGU Fall Meeting, Virtual Poster [Available online: https://agu2020fallmeeting-agu.ipostersessions.com/Default.aspx?s=E4-CD-8B-57-42-DA-45-4C-39-6A-C3-BF-A3-5C-B2-D1#].
- J. Reid, D. Wood, "Decision Support Model and Visualization for Assessing Environmental Phenomena, Ecosystem Services, Policy Consequences, and Satellite Design Using Earth Observation Data." 2020 AIAA ASCEND, Virtual [Available online: https://dspace.mit.edu/handle/1721.1/128378].
- J. Reid, D. Wood, "Interactive Model for Assessing Mangrove Health, Ecosystem Services, Policy Consequences, and Satellite Design in Rio de Janeiro Using Earth Observation Data." 2020 International Astronautical Congress, Virtual [Available online: https://dspace.mit.edu/handle/1721.1/129598].
- J. Reid, D. Rhodes, "Digital System Models: An investigation of the non-technical challenges and research needs." 2016 Conference on Systems Engineering Research, Huntsville, AL.

## Extracurricular & Service Activities

- - As President, lead the organization through several changes, including commissioning a history documentation effort and expanding the science policy bootcamp.
  - As Congressional Visit Days Co-Chair, organized a multi-day trip to Washington DC where MIT students met with numerous Congressional offices as part of the broader STEM on the Hill event hosted by the Science-Engineering-Technology Working Group.
  - As Bootcamp Chair, organized two science policy bootcamps (one in person and one virtual) designed to introduce participants to the 'nuts and bolts' of science policy making.
- MIT Open Access Task Force, *Graduate Student Representative* ...... 09/2017 Present Served as the representative of graduate student interests on a task force dedicated to reforming and advancing MIT's open access policies