

Stanford



Michael Mastrandrea

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Curriculum Vitae available Online

Bio

BIO

Michael Mastrandrea is an interdisciplinary scientist focused on managing climate risks and the design and implementation of energy and climate policy in California and beyond. He is Research Director of the Climate and Energy Policy Program and a Senior Research Scholar at the Stanford Woods Institute for the Environment, as well as Director of Policy at the Stanford Doerr School of Sustainability Accelerator. He also serves as Chief Advisor for Energy and Climate Research at the California Energy Commission, supporting the R&D and Energy Assessments divisions. Prior to joining Stanford he was Director of Near Zero and a Senior Research Associate at the Carnegie Institution for Science. He was part of the leadership team for the Intergovernmental Panel on Climate Change Fifth Assessment Report, where he helped lead the development of two international scientific assessments of climate change science and policy options. He has also served as an author for the Fourth U.S. National Climate Assessment and as an associate editor for the California Fourth Climate Change Assessment. Mastrandrea sits on the Editorial Board and is a Managing Editor for the journal *Climatic Change*. He holds a Ph.D. from Stanford's Emmett Interdisciplinary Program in Environment and Resources, and a B.S. in Biological Sciences from Stanford.

ACADEMIC APPOINTMENTS

- Sr Research Scholar, Stanford Woods Institute for the Environment

Publications

PUBLICATIONS

- **Low-intensity fires mitigate the risk of high-intensity wildfires in California's forests.** *Science advances*
Wu, X., Sverdrup, E., Mastrandrea, M. D., Wara, M. W., Wager, S.
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- **Enhancing the review process in global environmental assessments: The case of the IPCC ENVIRONMENTAL SCIENCE & POLICY**
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- **Accounting for the Greenhouse Gas Emission Intensity of Regional Electricity Transfers.** *Environmental science & technology*
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- **An open-source model of the Western Climate Initiative cap-and-trade programme with supply-demand scenarios to 2030** *CLIMATE POLICY*
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- **Assessing California's progress toward its 2020 greenhouse gas emissions limit** *ENERGY POLICY*
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- **Tracking banking in the Western Climate Initiative cap-and-trade program (vol 14, 124037, 2019) *ENVIRONMENTAL RESEARCH LETTERS***
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- **Unleashing expert judgment in assessment *GLOBAL ENVIRONMENTAL CHANGE-HUMAN AND POLICY DIMENSIONS***
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- **IPCC reasons for concern regarding climate change risks *NATURE CLIMATE CHANGE***
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- **A multistage crucible of revision and approval shapes IPCC policymaker summaries *SCIENCE ADVANCES***
Mach, K. J., Freeman, P. T., Mastrandrea, M. D., Field, C. B.
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- **Mapping the climate change challenge *NATURE CLIMATE CHANGE***
Hallegatte, S., Rogelj, J., Allen, M., Clarke, L., Edensofer, O., Field, C. B., Friedlingstein, P., van Kesteren, L., Knutti, R., Mach, K. J., Mastrandrea, M., Michel, A., Minx, et al
2016; 6 (7): 663–668
- **Understanding and responding to danger from climate change: the role of key risks in the IPCC AR5 *CLIMATIC CHANGE***
Mach, K. J., Mastrandrea, M. D., Bilir, T., Field, C. B.
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- **Towards seaport resilience for climate change adaptation: Stakeholder perceptions of hurricane impacts in Gulfport (MS) and Providence (RI) *PROGRESS IN PLANNING***
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- **Summary for Policymakers *CLIMATE CHANGE 2014: IMPACTS, ADAPTATION, AND VULNERABILITY, PTA: GLOBAL AND SECTORAL ASPECTS***
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- **Climate change in California: scenarios and approaches for adaptation *CLIMATIC CHANGE***
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- **Current and future impacts of extreme events in California *CLIMATIC CHANGE***
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- **THE COMPLEX DYNAMICS OF THE CLIMATE SYSTEM: CONSTRAINTS ON OUR KNOWLEDGE, POLICY IMPLICATIONS AND THE NECESSITY OF SYSTEMS THINKING** *PHILOSOPHY OF COMPLEX SYSTEMS*
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- **Bridging the gap: linking climate-impacts research with adaptation planning and management** *CLIMATIC CHANGE*
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2010; 100 (1): 87-101
- **Coping with Climate Risks in Indonesian Rice Agriculture: A Policy Perspective** *UNCERTAINTY AND ENVIRONMENTAL DECISION MAKING: A HANDBOOK OF RESEARCH AND BEST PRACTICE*
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2010; 138: 127–53
- **Assessing dangerous climate change through an update of the Intergovernmental Panel on Climate Change (IPCC) "reasons for concern"** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
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