

# Melissa Chapman

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## EDUCATION

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### University of California Berkeley

Berkeley, CA

PhD Candidate | Dept. of Environmental Science, Policy, and Management

Aug 2018-present

Dissertation Committee (\*co-advisor): Carl Boettiger\*, Justin Brashares\*, Holly Doremus

### Yale University

New Haven, CT

Bachelor of Science | Dept. of Ecology and Evolutionary Biology

Sept 2010-May 2014

Thesis advisor: Sunil Parikh

## SELECT PROFESSIONAL EXPERIENCE

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### Conservation International

Dec 2020 - present

Research Consultant | Natural Climate Solutions Group

### Helmholtz Centre for Environmental Research (UFZ)

May 2019 - Aug 2019

Visiting Scientist | Policy Instruments and Social-Ecological Systems Group

### Woodwell Climate Research Center (Woods Hole Research Center)

Sept 2015 - Apr 2018

Research Assistant II

### REDD+ Projet Équateur

Jan 2016 - Sept 2016

Measurement, Reporting and Verification Carbon Analyst

## PEER-REVIEWED PUBLICATIONS

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6. **Chapman, M.**, et al. (2020). Large climate mitigation potential from adding trees to agricultural lands. *Global Change Biology*. (**code**)
5. Oestreich, W., **Chapman, M.**, and Crowder, L.B. (2020). A comparative analysis of dynamic management in marine and terrestrial systems. *Frontiers in Ecology and the Environment*. (**code**)
4. Griscom, Bronson W., et al. [including **Chapman, M**]. (2020). National mitigation potential from natural climate solutions in the tropics. *Philosophical Transactions of the Royal Society B*.
3. Samndong, R. A., Bush, G., Vatn, A., **Chapman, M.** (2018). Institutional analysis of causes of deforestation in REDD+ pilot sites in the Equateur province: Implication for REDD+ in the Democratic Republic of Congo. *Land use policy*
2. Galvin, B.D., et al. [including **Chapman, M**] (2014). A Target Repurposing Approach Identifies N-myristoyltransferase as a New Candidate Drug Target in Filarial Nematodes. *PLoS Neglected Tropical Diseases*.
1. Cunningham, Courtney, et al. [including **Chapman, M**] (2014). Impaired consciousness in partial seizures is bimodally distributed. *Neurology*.

## PUBLICATIONS IN REVIEW\*

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\* drafts of first-author publications in review are available upon request

- Roe, S. et al [including **Chapman, MS**]. Land-based mitigation potential by country, and the feasibility of implementing them. (*In review at Global Change Biology*)

- Hasting, Z. et al [including **Chapman, MS**]. Toward socially just transitions to agroforestry for climate mitigation and adaptation. (*In review at Current Opinion in Environmental Sustainability*)
- Ordway, E. et al., [including **Chapman, MS**]. Leveraging the NEON Airborne Observation Platform for socio-environmental systems research. (*In review at Ecosphere*)
- Scoville, C., et al. [including **Chapman, MS**]. Algorithmic Conservation Governance in a Changing Climate. (*In review at Current Opinion in Environmental Sustainability*)
- Kitzes, J et al.[including **Chapman, MS**]. Expanding the National Ecological Observatory Network (NEON) biodiversity surveys with new instrumentation and machine learning models. (*In review at Ecosphere*)
- **Chapman, MS**, et al. Tipping points in diversified farming systems. (**code**) (*Submitted*)
- Calhoun, K. et al [including **Chapman, MS**]. Where the Wild Fires Are — 20 years of data show the importance of fire management outside of conifer forests. (*In prep for Diversity and Distributions*)
- **Chapman, MS\*** and Oestreich, WK\*, et al. Promoting equity in scientific recommendations for high seas governance. \*co-first authors. (**code**) (\**In prep*)
- Kurz, D. et al [including **Chapman, MS**]. Building bridges in the post-Trump era: can conservation scientists help recover bipartisan support for U.S. environmental protection?. *EcoEvoxiv*. DOI: 10.32942/osf.io/entgj (\**In review - preprint available*)

## TECHNICAL REPORTS, POLICY BRIEFS, AND THESES

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5. Galbiati, L.A., and Botero, M., et al [including **Chapman, M.**]. (2017) "Prioritizing Areas for Reforestation of Private Lands in the Brazilian Amazon". Policy Brief. available at: <http://ipam.org.br/wp-content/uploads/2017/08/Prioritizing-Areas-for-Reforestation-of-Private-Lands- eng-web.pdf>
4. Cuthbert, R.J., Bush, G., **Chapman, M.**, Ken, B., G, Neale, E. and Whitmore, N. (2016) Analysis of National Circumstances in the Context of REDD+ and Identification of REDD+ Abatement Levers on Papua New Guinea. Wildlife Conservation Society, Goroka, Papua New Guinea. ISBN: 978-0-9943203-3-9
3. Bush, G., Nassikas, Z., and **Chapman, M.** (2017). Forest Landscape Restoration in Costa Rica: A spatially explicit multi-criteria tool for policy management prioritization and cost-benefit analysis. Presented to Costa Rica Forest Financing Ministry. Available upon request.
2. **Chapman, M.** Myhre, L. (2014) "A Geographic Correlation of Spina Bifida and Malaria in Kenya". Yale Department of African Studies Senior Thesis. Advisor: Sunil Parikh
1. **Chapman, M.** (2014) "Assessing patterns of malaria risk: Environmental determinants of differential malaria susceptibility between Mossi and Fulani people in Burkina Faso". Yale Department of Ecology and Evolutionary Biology Senior Thesis. Advisor: Sunil Parikh

## PRESENTATIONS AND SEMINARS

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1. **Chapman, M.**, et al. Tipping points in diversified farming systems. Ecological Society of America 2020 Meeting. Contributed Talk.
2. **Chapman, M.**. Large climate mitigation from adding trees to agricultural lands and how that potential might be realized. The Nature Conservancy Seminar Series (Invited Talk). July 9, 2020.
3. **Chapman, M.**. Large climate mitigation from adding trees to agricultural lands. Woodwell Climate Research Center Friday Seminar Series (Invited Talk). June 10, 2020.
4. **Chapman, M.**, Walker, W. (2018). A Global Analysis of Woody Aboveground Carbon Storage in Crop and Pasture lands. American Geophysical Union. (Presentation)
5. **Chapman, M.**, Nassikas, A., Bush, G. (2017). Spatial prioritization of reforestation in Costa Rica. Costa

Rica Forest Finance (FONAFIFO). (Presentation)

6. **Chapman, M.** (2014) Assessing a geographic correlation between spina bifida and malaria in Kenya. Yale Mellon Forum.
7. **Chapman, M.** Myhre, L. (2014) Pursuing Independent Research as Undergraduates. Yale Global Health Panel.
8. **Chapman, M.**, Galvin, B., and Carlow, T. (2011) Cloning, Expression, and Biochemical Characterization of Myristoyltransferase and Farnesyltransferase from *Brugia Malay*, Two New Antifilarial Drug Targets. New England Biolabs Symposium. (Poster)

## FELLOWSHIPS AND GRANTS

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o SESYNC Graduate Student Pursuit: Co- PI ( <b>project link</b> ) ( \$35000)	2020-2021
o Berkeley Center For Technology, Society, and Policy Fellowship ( <b>project link</b> ) (\$4000)	2020
o NEON Science Summit Travel Grant (\$900)	2019
o Safari Club Wildlife Ecology Field Grant (\$2200)	2019
o NSF National Research Trainee (\$32,000)	2018-2020
o POLISES 3-month Visiting Scientist Travel and Research Funding (\$6,000)	2019
o Foreign Language Area Studies (FLAS) Fellowship: Kiswahili (\$35,000)	2012- 2014
o Kingsley Trust Association Senior Fellowship (\$5,000)	2014
o Yale Collaborative Action Project Grant (\$5,000)	2013-2014

## WORKSHOPS AND WORKING GROUPS

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o SESYNC Cyberinfrastructure Summer Institute	July 2020
o NIMBioS Adaptive Management Tutorial	Apr 2020
o People, Land, Ecosystems: Leveraging NEON for Socio-Environmental Synthesis	Feb 2020
o National Ecological Observation Network (NEON) Science Summit	2019
o Advancing Integrated Process-Based Modeling of Socio-Environmental Systems (SESYNC)	2019-2020
o Graduate Student Workshop on Socio-Environmental Synthesis (SESYNC)	Aug 2019
o Ecological Forecasting Initiative Summer Course	2019
o Mathematical Ecology Working Group: Woods Hole, MA	2017-2018

## TEACHING EXPERIENCE

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o University of California Berkeley <i>Graduate Student Instructor, Data Science for Global Change Ecology</i>	2020
o Amazon Environmental Research Institute: <i>Technical Mentor for Public Policy Course</i>	2017
o Yale University: <i>Undergraduate Teaching Assistant, Physics I</i>	2013-2014
o Yale University: <i>Undergraduate Teaching Assistant, Organic Chemistry II</i>	2012-2013

## OUTREACH AND LEADERSHIP

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o Ecological Forecasting Initiative <i>Student Working Group Co-chair</i>	2019-present
o UC Berkeley Graduate Student Association (GSA)	2018-Present
o Letters to a Pre-scientist: <i>Volunteer</i>	2019-Present
o Bay Area Scientists in Schools (BASIS): <i>Instructor</i>	2018-Present
o Society for Conservation Biology, Berkeley Chapter: <i>Planning Committee Officer</i>	2018-2019
o 500 Women Scientists - Woods Hole Chapter: <i>Media Outreach</i>	2017-2018
o Yale Public Health Coalition: <i>President (2012-2013), Secretary (2011)</i>	2011-2013
o Yale Varsity Cross Country and Track and Field: <i>Captain (2014)</i>	2010-2014