

BERNARDO A. BASTIEN-OLVERA

CURRICULUM VITAE

OCTOBER 2022

Mobile: 530-761-3688

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Scripps Institution of Oceanography

8622 Kennel Way, La Jolla, CA 92037

EDUCATION

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|------------|---|----------------|
| PhD | Geography University of California Davis. Dissertation: "Climate change impacts on natural capital: consequences for human well-being and macro-economic growth" | June 2022 |
| MSc | Climate Change University College London. | September 2017 |
| BSc | Earth Science National Autonomous University of Mexico. | June 2015 |

PROFESSIONAL APPOINTMENTS

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| Institutional Postdoctoral Fellow | Present |
| Scripps Institution of Oceanography University of California San Diego | |

PUBLICATIONS

Refereed Journal Articles

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| In press | Bastien-Olvera, B. A., & Moore, F. C. (in press). Climate Impacts on Natural Capital: Consequences for the Social Cost of Carbon. <i>Annual Review of Resource Economics</i> , 14. |
| 2022 | Bastien-Olvera, B. A., Granella, F. & Moore, F. C. (2022). Persistent effect of temperature on GDP identified from lower frequency temperature variability. <i>Environmental Research Letters</i> , 17(8), 084038. |
| 2021 | Bastien-Olvera, B. A., & Moore, F. C. (2021). Use and non-use value of nature and the social cost of carbon. <i>Nature Sustainability</i> , 4(2), 101-108. |
| 2019 | Bastien-Olvera, B. A. (2019). Business-as-usual redefined: Energy systems under climate-damaged economies warrant review of nationally determined contributions. <i>Energy</i> , 170, 862-868. |

Book Chapters

- 2019 Bastien-Olvera, B. A., Carreño-Najera H., Estrada-Porrúa, F. (2019). Chapter: "CaminoS paralelos: división metodológica entre las negociaciones de internacionales de cambio climático y la economía climática" in *¿Aún estamos a tiempo para el 1.5C?*, pp.51-67. Ed. Rueda-Abad JC. UNAM, PINCC, 2019. ISBN: 978-607-30-2099-2
- 2017 Bastien-Olvera, B.A., Gay-García C. (2017). Chapter: "Incertidumbre científica y el avance en los modelos climáticos" in *La Gobernanza Climática en México. Volumen II, Retos y Opciones*, pp.37-53, UNAM, PINCC, 2017. ISBN: 978-607-02-9769.
- 2016 Bastien-Olvera, B.A., Gay-García C., Estrada-Porrúa, F. (2016). Chapter: "¿Es factible el 1.5°C de elevación de la temperatura en los acuerdos de París?" in *21 visiones de la COP 21*, pp.43-56, UNAM, PINCC, 2016. ISBN: 978-607-02-8439-.

Manuscripts in submission

- In Review Bastien-Olvera, B.A., Conte, M.N., Dong, X., Briceno, T., Batker, D. & Moore, F.C. (In Review) Biome range shifts under climate change: impacts on country-level macro-economic production and ecosystem services. *Nature*.

AWARDS AND HONORS

- 2022 **National Geographic Explorer**
National Geographic Society
- 2020 **John Muir Institute for the Environment Fellow**
University of California Davis
- 2020 **The Green Fund Initiative Fellow**
University of California Davis
- 2020 **Big Ideas Award**
University of California Berkeley
- 2019 **Centennial Grant Fellowship**
American Geophysical Union

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| 2017 | Fulbright-Garcia Robles Fellowship Fulbright |
| 2016 | Santander's Masters Scholarship Santander |
| 2015 | Francisco Medina Martinez Award Unión Geofísica Mexicana |
| 2015 | Mitacs Globalink Award Canadian Government |

INVITED TALKS

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| Forthcoming | “What do we lose when we lose a biome?” Earth Science Department, University of Southern California, October 2022. |
| 2022 | Invited to the “Workshop on New Frontiers on Natural Capital Accounting.” Cambridge University, UK, September 2022. |
| 2020 | “Communicating science to policy makers and the broader public” Ensenada Center for Scientific Research and Higher Education (CICESE), February 2020. |
| 2017 | “Climate change impacts on the energy system” Instituto de Ciencias Nucleares, National Autonomous University of Mexico, September 2017. |

CONFERENCE ACTIVITY

Organizer

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| 2019 | Mexican, Latinx and Chicanx Academic Symposium. University of California Davis, May 11, 2019. Chair. |
| 2013 | IV Congreso Nacional de Estudiantes en Ciencias de la Tierra. Facultad de Ciencias, Universidad Nacional Autónoma de México, March 20-23, 2013. |

Papers presented

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| Forthcoming | Bastien-Olvera, B.A., Conte, M., Dong, X., Briceno, T., Batker, D., Moore, F.C. (2022). Biome range shifts under climate change: impacts on country-level macro-economic production and ecosystem services. <i>American Geophysical Union Fall Meeting</i> , Chicago, IL, December 12-16, 2022. |
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- 2022 Bastien-Olvera, B.A., Conte, M., Emmerling, J., Tavoni, M., Dong, X., Briceno, T., Batker, D., Moore, F.C. (2022). Biome range shifts under climate change: impacts on country-level macro-economic production and ecosystem services. *XXIII Annual BIOECON Conference on Biodiversity, Finance and Economy*, Exeter, United Kingdom, September 4-6, 2022.
- 2022 Bastien-Olvera, B. A., Granella, F. & Moore, F. C. (2022). Persistent effect of temperature on GDP identified from lower frequency temperature variability. *The Occasional Workshop*, University of California Santa Barbara, April 30-May 1, 2022.
- 2021 Bastien-Olvera, B. A., Granella, F. & Moore, F. C. (2021). Efecto persistente de la temperatura sobre el PIB identificado a partir de la variabilidad de la temperatura de baja frecuencia. *Reunión Anual de la Unión Geofísica Mexicana*, Online, October 31 – November 5, 2021.
- 2021 Bastien-Olvera, B.A., Moore, F.C. (2021). El Costo Social del Carbono en Relación a los Valores de Uso y No-uso del Capital Natural. *XXIV Congreso Nacional de Geografía*, Online, October 15, 2021.
- 2019 Bastien-Olvera B.A., Pilatowsky-Gruner, R. (2019). Planeteando: Climate change video-blogging. American Geophysical Union Fall Meeting, San Francisco, December 9-13, 2019.
- 2015 Bastien-Olvera, B.A., Gay-Garcia, C. (2015). Stabilizing Global Temperature Through a Fuzzy Control on CO2 Emissions. *International Conference on Simulation and Modeling Methodologies, Technologies and Applications*, Colmar, France, July 21-25, 2015.

CAMPUS TALKS

- Forthcoming “What do we lose when we lose a biome?”
Climate, Atmospheric Sciences, and Physical Oceanography. Scripps
Institution of Oceanography, University of California San Diego.

TEACHING EXPERIENCE

University of California Davis

- 1x Environmental Policy Analysis. Teacher Assistant and Discussant, PhD and Masters level.
- 4x Methods of Environmental Policy Evaluation. Teacher Assistant, Undergraduate.

National Autonomous University of Mexico

1x Selected Method for Atmospheric Sciences.

RESEARCH EXPERIENCE

2017 – 2022 Research Assistant in Dr. Fran Moore's research group at the University of California Davis.

2015-2016 Red Nacional de Investigación Multidisciplinaria en Cambio Climático, Programa de Investigación en Cambio Climático, National Autonomous University of Mexico.

2013-2016 Fuzzy logics and climate change modeling, Programa de Investigación en Cambio Climático, National Autonomous University of Mexico.

2012 – 2013 Paleoclimatology research group, Geology Department, National Autonomous University of Mexico.

SERVICE TO PROFESSION

Member of the American Geophysical Union Global Engagement Committee (2020-present).

Manuscript reviewer for: Nature Climate Change, Nature Sustainability, Environment, Development and Sustainability.

EXTRA TRAINING

2020 Graduate Leaders in Socio-Environmental Synthesis workshop. (Winter 2020). The National Socio-Environmental Synthesis Center.

2019 Summer School in Sustainable Climate Risk Management. (Summer 2019). Penn State University.

2018 Summer School in Resource and Environmental Economics. (Summer 2018). European Association of Environmental and Resource Economists.

2016 International Summer School. Masters course: A changing Arctic. Social, economic, political and physical dynamics of the Arctic. (Summer 2016). University of Oslo.

OUTREACH

“Bioguardianes” Documentary TV-series on biocultural heritage in Mexico. Aired Nationally in June 2022. Role: researcher, scriptwriter and host.

“Planeteando” Member and co-founder of Planeteando, a climate change communication collective.

MEDIA COVERAGE

CNN International. Cost of Climate Impacts Severely Underestimated. (2022).
<https://twitter.com/holmesCNN/status/1561591963949965312>

Agarwala, M., Coyle, D. Natural capital in climate models. Nat Sustain 4, 81–82 (2021).
<https://doi.org/10.1038/s41893-020-00618-x>

Nuccitelli, D. Study: Accounting for value of nature reinforces Paris climate targets. Yale Climate Connections (2021). <https://yaleclimateconnections.org/2021/01/study-accounting-for-value-of-nature-reinforces-paris-climate-targets>

LANGUAGES

Spanish (native)

English (fluent)

AFFILIATIONS

American Geophysical Union

American Association of Environmental and Resource Economists

Unión Geofísica Mexicana

Red de Resistencia Climática

REFERENCES

Frances C. Moore
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