BERNARDO A. BASTIEN-OLVERA

CURRICULUM VITAE OCTOBER 2022

Mobile: 530-761-3688 Scripps Institution of Oceanography bbastien@ucsd.edu 8622 Kennel Way, La Jolla, CA 92037

EDUCATION

PhD Geography

University of California Davis.

June 2022

Dissertation: "Climate change impacts on natural capital:

consequences for human well-being and macro-economic growth"

MSc Climate Change

University College London.

September 2017

BSc Earth Science

National Autonomous University of Mexico.

June 2015

PROFESSIONAL APPOINTMENTS

Institutional Postdoctoral Fellow

Present

Scripps Institution of Oceanography University of California San Diego

PUBLICATIONS

2022

Refereed Journal Articles

	García G. (2022). Importancia relativa de los conceptos erróneos sobre el cambio climático. <i>Enseñanza y Comunicación de las Geociencias</i> , 1(2).
2022	Bastien-Olvera, B. A., & Moore, F. C. (2022). Climate Impacts on Natural Capital: Consequences for the Social Cost of Carbon. <i>Annual Review of Resource Economics</i> , 14, 515-532.
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.

Bastien-Montoya, G.M., Bastien-Olvera, B.A., Pilatowsky-Gruner, R., & Gay

- Bastien-Olvera, B. A., & Moore, F. C. (2021). Use and non-use value of nature and the social cost of carbon. *Nature Sustainability*, 4(2), 101-108.
- Bastien-Olvera, B. A. (2019). Business-as-usual redefined: Energy systems under climate-damaged economies warrant review of nationally determined contributions. *Energy*, 170, 862-868.

Book Chapters

- Bastien-Olvera, B. A., Carreño-Najera H., Estrada-Porrua, 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
- 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.
- Bastien-Olvera, B.A., Gay-García C., Estrada-Porrua, 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.

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	Blum Institute for Developing Economies University of California Berkeley
2019	Centennial Grant Fellowship American Geophysical Union
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

Τ.	TIED TALKS	
	Forthcoming	"The economic geography of natural capital in a changing climate" Co-sponsored by the Economics and Geography Departments, San Diego State University, January 2023.
	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.
	2022	"Cambio climáticos, ecosistemas y crisis hídricas" Programa Universitario de Estudios sobre la Ciudad, UNAM, September 2022.
	2020	"Natural Capital in a Regional Integrated Assessment Model" Centro Euro-Mediterraneo sui Cambiamenti Climatici, June 2020.
	2020	"Communicating science to policy makers and the broader public" Ensenada Center for Scientific Research and Higher Education (CICESE), February 2020.
	2019	"Creation of open source integrated assessment models of climate change" Centro de Ciencias de la Atmósfera, National Autonomous University of Mexico, March 2019.

"Natural Capital and the Social Cost of Carbon"
The Natural Capital Project, Stanford University, November 2019.
"Climate change impacts on the energy system"
Instituto de Ciencias Nucleares, National Autonomous University of Mexico, September 2017.

CONFERENCE ACTIVITY

Organizer	
2019	Mexican, Latinx and Chicanx Academic Symposium. University of California Davis, May 11, 2019. Chair.
2018	Transdisciplinary collaboration between academia and California-Mexico relations. Discussion session at the General Mexican Consulate in Sacramento.
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

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.
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. <i>XXIII Annual BIOECON Conference on Biodiversity, Finance and Economy</i> , 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. <i>The Occasional Workshop</i> , 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. <i>Reunión Anual de la Unión Geofísica Mexicana</i> , 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. <i>XXIV Congreso Nacional de Geografía</i> , 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. <i>International Conference on Simulation and Modeling Methodologies, Technologies and Applications</i> , Colmar, France, July 21-25, 2015.

CAMPUS TALKS

"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

1 quarter Course: Environmental Policy Analysis. Teacher Assistant and Discussion

Leader, PhD and Masters level.

4 quarters Course: Methods of Environmental Policy Evaluation. Teacher Assistant and

Discussion Leader. Undergraduate level.

Summer School on Earth Science and Climate Justice Communication

3 summers Course: Converting research articles into compelling stories. Instructor on

record. Undergraduate and Graduate level.

Informal Education Group for children

2 years Course: Environment, society, and leadership. Instructor on record. Kids 8-12.

National Autonomous University of Mexico

1 semester Course: Selected Methods for Atmospheric Sciences. Teacher Assistant,

Undergraduate level.

RESEARCH EXPERIENCE

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2022 –	Research collaborator in the Climate and Environmental Change Integrated Assessment Model of Mexico City and its Metropolitan area. National Autonomous University of Mexico.
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

Editorial Board of the Journal Enseñanza y Comunicación de las Geociencias (Geosciences Teaching and Communication) by the National Autonomous University of Mexico (2021-present).

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

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

ADDITIONAL 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

"TierraCamp" Climate justice media production summer camp in partnership National Geographic Society. August 2022. Role: coordinator.

"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 Environmental Science and Policy Department University of California Davis fmoore@ucdavis.edu

Katharine Ricke Scripps Institution of Oceanography University of California San Diego kricke@ucsd.edu

Francisco Estrada-Porrúa Instituto de Ciencias de la Atmósfera y Cambio Climático National Autonomous University of Mexico feporrua@atmosfera.unam.mx