

# IAN RAMSEY McFADDEN

Swiss National Science Foundation Postdoctoral Fellow  
Institute for Biodiversity and Ecosystem Dynamics, University of Amsterdam  
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## EDUCATION

**Ph.D. Ecology and Evolutionary Biology, 2019, University of California, Los Angeles**  
*Committee:* Nathan Kraft (advisor), Stephen Hubbell, Lawren Sack, Matthew Fitzpatrick  
*Thesis:* 'Separating the effects of multiple processes on diversity patterns in an Amazonian tree community and the New World flora'

**B.S. Ecology and Evolutionary Biology, 2008, University of California, Santa Cruz**  
*Lab assistantships:* John Thompson (microbial co-evolution), Barry Sinervo (lizard competition)  
*Thesis:* 'Seed dispersal adaptations of a mast fruiting plant community in Malaysian Borneo'

**H.S. Visual and Fine Arts, 2004, San Francisco School of the Arts, California**  
*Final project:* Series of *en plein air* oil paintings depicting nature reclaiming urban areas

## ACADEMIC AND RESEARCH POSITIONS

**Swiss NSF Postdoctoral Fellow, University of Amsterdam, 2022 - present**  
*Mentor:* Daniel Kissling, Institute of Biodiversity and Ecosystem Dynamics (IBED)

**Postdoc, ETH Domain: Swiss Federal Research Institute WSL and ETH Zürich, 2019 - 2022**  
*Mentors:* Catherine Graham, Niklaus Zimmermann, Loïc Pellissier and Anita Narwani

**NSF Graduate Research Fellow in Ecology, UCLA & University of Maryland, 2012 - 2016**

**Full-time research assistant, University of California at Berkeley, 2010 - 2011**  
Potts Research Group, Environmental Science, Policy and Management Department

**Independent researcher, forest seed dispersal study in Indonesian Borneo, 2008 - 2009**  
Funded via Harvard Deland Award for student research, advised by Campbell Webb

## FELLOWSHIPS, GRANTS AND AWARDS [~\$333,000 in direct funding, ~\$537,000 total]

### MAJOR FUNDING AND AWARDS

**Swiss NSF Postdoctoral Mobility Fellowship, 2022-2024** [125,150 CHF (~\$126,000)]

**ETH Domain Blue-Green Biodiversity Initiative Grant, 2021** [104,847 CHF (~\$106,000)]  
*Project title:* Warming-related community turnover in terrestrial and freshwater ecosystems

*Role:* Contributed to conceptualization, proposal writing, data gathering and writing  
**WIN WIN Gothenburg Sustainability Award**, 2020, Sweden [1 million SEK (~\$98,000)]  
Awarded to IPBES\* for “opening people’s eyes to the threats against biodiversity”  
*\*Intergovernmental Science-Policy Platform on Biodiversity and Ecosystem Services;*  
*Participated as contributing author to Chapter 3 of Americas Regional Assessment Report*  
**Dean’s Research Excellence Award**, 2017, University of California, Los Angeles [\$18,000]  
**Dean's Fellowship**, 2012, University of Maryland [\$10,000]  
**NSF Graduate Research Fellowship in Ecology**, 2012-2016 [\$138,000]  
**Plant Science Fellowship**, 2012, Michigan State [\$30,000, offered and declined]

#### OTHER FUNDING AND AWARDS

**Vavra Travel Grant for Organismal Plant Biology**, 2018 & 2016, UCLA [\$2,900]  
**Student Poster Award, International Biogeography Society**, 2017, Tucson, Arizona  
**Devra Kleiman Scholarship**, 2014, University of Maryland [\$1,016]  
**OTS Tropical Plant Systematics Course Grant**, 2014, University of Maryland [\$3,600]  
**Howard Brinkley Travel Award**, 2013, University of Maryland [\$600]  
**Honorable Mention, NSF Graduate Research Fellowship Competition**, 2011  
**Deland Award for Student Research**, 2008, Harvard University, Arnold Arboretum [\$3,260]

#### PUBLICATIONS [*Impact* (Google Scholar): Citations: 1342; H-index: 8]

Marco Coelho, Elisa Barreto, Thiago Rangel, José Diniz-Filho, Rafael Wüest, Wilhelmine Bach, Alexander Skeels, **Ian McFadden**, David Roberts, Loïc Pellissier, Niklaus Zimmermann, Catherine Graham. The geography of climate and the global patterns of species diversity. *Nature*, online early. [*News and Views* feature by A. Machac]

Alke Voskamp, Susanne Fritz, Valerie Köcke, Matthias Biber, Timo Brockmeyer, Bastian Bertzky, Matthew Forrest, Angela Gaylard, Allie Goldstein, Scott Henderson, Thomas Hickler, Christian Hof, Thomas Kastner, Stefanie Lang, Peter Manning, Mike Mascia, **Ian McFadden**, Aidin Niamir, Monica Noon, Brian O’Donell, Mark Opel, Sophie Peter, Georg Schwede, Peyton West, Christof Schenck, Katrin Böhning-Gaese. Utilizing multi-objective decision support tools for protected area selection. *One Earth*, 6:1143-1156

Alex Skeels, Lydian Boschmann, **Ian McFadden**, Elizabeth Joyce, Oscar Hagen, Octavio Jiménez-Robles, Wilhelmine Bach, Victor Boussange, Thomas Keggin, Walter Jetz, Loïc Pellissier. 2023. Paleoenvironments shaped the exchange of terrestrial vertebrates across Wallace’s Line. *Science*, 381:86-92. [Featured in *The Conversation*]

Esteban Guevara, Carolina Bello, Cristian Poveda, **Ian McFadden**, Loïc Pellissier, Matthias Schleuning, Catherine Graham. 2023. Hummingbird community structure and resources

modulate the response of interspecific competition to forest conversion. *Oecologia*, 201:761–770.

**Ian McFadden\***, Agnieszka Sendek\*, Morgane Brosse, Peter Bach, Marco Baity-Jesi, Janine Bolliger, Kurt Bollmann, Ekehard Brockerhoff, Giulia Donati, Friederike Gebert, Shyamolina Ghosh, Hsi-Cheng Ho, Imran Khaliq, Jelle Lever, Ivana Logar, Helen Moor, Daniel Odermatt, Loïc Pellissier, Luiz de Queiroz, Christian Rixen, Nele Schuwirth, Ryan Shipley, Cornelia Twining, Yann Vitasse, Christoph Vorburger, Mark Wong, Niklaus Zimmermann, Ole Seehausen, Martin Gossner, Blake Matthews, Catherine Graham, Florian Altermatt, Anita Narwani. 2022. Linking human impacts to community processes in terrestrial and freshwater ecosystems. *Ecology Letters*, 26:203-218. [\*Equal effort, cover article]

Luiz de Queiroz, Carmela Doenz, Florian Altermatt, Roman Alther, Špela Borko, Jakob Brodersen, Martin Gossner, Catherine Graham, Blake Matthews, **Ian McFadden**, Loïc Pellissier, Thomas Schmitt, Oliver Selz, Soraya Villalba, Lukas Rüber, Niklaus Zimmermann, Ole Seehausen. 2022. Climate, immigration and speciation shape terrestrial and aquatic biodiversity in the European Alps. *Proceedings of the Royal Society B*. 289:20221020.

**Ian McFadden**, Susanne Fritz, Niklaus Zimmermann, Loïc Pellissier, Daniel Kissling, Joseph Tobias, Matthias Schleuning, Catherine Graham. 2022. Global plant-frugivore trait matching is shaped by climate and biogeographic history. *Ecology Letters*, 25:686-696. [Part of special issue on avian traits featured on the cover, covered by several international media outlets]

Jens Kattge, Gerhard Bönisch, Sandra Díaz, Sandra Lavorel ... **Ian McFadden** (729 authors total) ... Christian Wirth. 2020. TRY plant trait database - enhanced coverage and open access. *Global Change Biology*, 26:119-188. [Invited contribution to 25<sup>th</sup> anniversary special issue; commentary by Fraser 2020]

**Ian McFadden**, Brody Sandel, Constantinos Tsirogiannis, Naia Morueta-Holme, Jens-Christian Svenning, Brian Enquist, Nathan Kraft. 2019. Temperature shapes opposing latitudinal gradients of plant taxonomic and phylogenetic  $\beta$  diversity. *Ecology Letters*, 22:1126-1135. [Selected as cover article]

Claire Fortunel, **Ian McFadden**, Renato Valencia, Nathan Kraft. 2019. Neither species geographic range size, climatic envelope nor intraspecific leaf trait variability capture habitat specialization in a hyperdiverse Amazonian forest. *Biotropica*, 51:304-310.

**Ian McFadden**, Megan Bartlett, Thorsten Wiegand, Benjamin Turner, Lawren Sack, Renato Valencia, Nathan Kraft. 2018. Disentangling the functional trait correlates of spatial aggregation in tropical forest trees. *Ecology*, 100:E02591.

Jeannine Cavender-Bares, Mary Arroyo, Robin Abell, David Ackerly ... **Ian McFadden** (79 authors total) ... Silvia Ziller. 2018. Chapter 3: Status, trends and future dynamics of biodiversity and ecosystems underpinning nature's contributions to people. In *The IPBES*

**regional assessment report on biodiversity and ecosystem services for the Americas.** Bonn, Germany, pp. 171-293. [Coverage by *Nature*, the BBC, The Guardian, National Geographic]

#### IN REVISION

Imran Khaliq, Christian Rixen, Florian Zellweger, Blake Matthews, Catherine Graham, Martin Gossner, **Ian McFadden**, Laura Antao, Jakob Broderson, Shyamolina Ghosh, Francesco Pomati, Ole Seehausen, Tobias Roth, Thomas Sattler, Sarah Supp, Niklaus Zimmermann, Anita Narwani. Warming explains community turnover in freshwater and terrestrial communities.

**Ian McFadden**, Marco Coelho, Rafael Wüest, Fernanda Casseiro, Niklaus Zimmermann, Loïc Pellissier, Thiago Rangel, Catherine Graham. Global hotspots of recent and ancestral turnover in birds. [Preprint on *Research Square*]

Loïc Pellissier, Lydian Boschman, Catherine Graham, Oskar Hagen, Roland Jansson, Lisha Lyu, **Ian McFadden**, Thiago Rangel, Christopher Scotese, Zhiheng Wang, Niklaus Zimmermann, Charles de Santana, Albouy Camille. Looking beyond latitude: Quantifying longitudinal diversity patterns to infer biodiversity dynamics through time.

#### IN PREPARATION

**Ian McFadden**, Florian Altermatt, Fabio Benedetti, Martin Gossner, Catherine Graham, Nicolas Gruber, Martina Hobi, Blake Matthews, Loïc Pellissier, Luiz Jardim de Queiroz, Damiano Righetti, Meike Vogt, Tom Wohlgemuth, Ole Seehausen, Niklaus Zimmermann. Unpacking the land-sea biodiversity paradox with a 300,000 species dataset.

#### ONLINE DATASETS AND CODE

##### **Global plant-frugivore trait matching, GitHub repository archived on Zenodo**

*Code and data to reproduce:* McFadden *et al.* 2022a *Ecology Letters*

*DOI:* <https://doi.org/10.5281/zenodo.5552240>

##### **Global avian frugivore bill gape size dataset, Dryad**

*Data from:* McFadden *et al.* 2022a *Ecology Letters*

*DOI:* <https://doi.org/10.5061/dryad.tjq2bw05>

##### **New World Plant Phylogeny and Occurrence Dataset, Dryad**

*Data from:* McFadden *et al.* 2019 *Ecology Letters*

*DOI:* <https://doi.org/10.5061/dryad.n42g840>

##### **Leaf Drought Tolerance and Mechanical Toughness Dataset, TRY Plant Trait Database**

Trait data for 454 Amazonian tree species, >50 requests for use in papers as of January 2023

*DOI:* <https://doi.org/10.17871/TRY.19>

##### **Leaf Intraspecific Trait Variation Dataset, TRY Plant Trait Database (co-PI with N. Kraft)**

Traits for 43 Amazonian tree species with large numbers of individuals sampled per species

DOI: <https://doi.org/10.17871/TRY.22>

**Trait Correlates of Spatial Aggregation, Code from McFadden *et al.* 2018 *Ecology***

Functions to implement decision tree for spatial point process models of stem patterns

DOI: <https://doi.org/10.5281/zenodo.2092062>

**UCLA Trait Transects, GitHub data, code repository from EEB122 'discussion-lab'**

Link: [https://github.com/lanMcFadden/UCLA\\_Trait\\_Transects](https://github.com/lanMcFadden/UCLA_Trait_Transects)

**SHORT WORKSHOPS ORGANIZED**

**Building mechanistic models to predict biodiversity dynamics**, 15 participants, 2023  
2-day discussion group at University of Zürich Biodiversity Convention in Monte Verità, CH

**Intro to GIS in R workshop**, ~40 participants, virtual (Swiss Federal Institute WSL), 2021  
Wrote and taught an R script for creating, importing, plotting and analyzing spatial data

**Intro to R workshop**, ~20 participants, University of Maryland, College Park, 2014  
Wrote and taught an R script introducing the basics of R coding

**MENTORING**

Micheal Alvarado, Waorani tribe member and field assistant in Ecuador: Field ecology

Alex Dietrick, undergrad field assistant in Ecuador: functional traits, field ecology, R coding

Vivian Griffey, UCLA undergrad: Patterns and drivers of global canopy height (thesis project)

Brooke Shimasaki, UCLA undergrad: Seed toughness of California serpentine annual plants

Winnie Promise, UCLA teaching assistant: Teaching undergraduates in ecology & evolution

Yuki Ohashi and Alex Moon, UC Berkeley undergrads: Tropical soil carbon analysis

**FIELD RESEARCH AND FIELD COURSES**

**Ecuadorian Amazon** Four 1-2-mo. field seasons during PhD from 2013 - 2016

**Costa Rica** OTS Tropical Plant Systematics field course, 5 weeks, 2014

UC Education Abroad Program, 11 weeks, 2007

**Colombia** International Plant Functional Traits Course, 2 weeks, 2013

**Indonesian Borneo** Led frugivory study, Gunung Palung National Park, 4 mo., 2008 - 2009

**Malaysian Borneo** Harvard Biodiversity of Borneo field course, 5 weeks, 2007

**California** Reducing sound pollution in Muir Woods National Park, 2 mo., 2005

**PARTICIPATION IN WORKING GROUP MEETINGS**

**The Botanical Information and Ecology Network (BIEN)**

*Organizers:* Brian Enquist, Richard Condit, Robert Peet, Brad Boyle, Steven Dolins  
*Meeting dates:* August 2019, Aarhus University, Aarhus, Denmark; January 2017, University of Arizona, Tucson, Arizona

**Dance with neighbors: What have we learned about species coexistence in tree communities from the global stem-mapped forest plots?**

*Organizers:* Fangliang He, Richard Condit, Steve Hubbell, Thorsten Wiegand  
*Meeting dates:* November 2015, Sun Yat-Sen University, Guangzhou, China; March 2015, UFZ Helmholtz Center, Leipzig, Germany

**WORKSHOP PARTICIPATION AND SPECIALIZED TRAINING**

**Towards automatic plant morphological trait identification workshop**

*Meeting date:* September 23<sup>rd</sup>, 2022, Wageningen, The Netherlands

**Smithsonian Forest Global Earth Observatory (ForestGEO) analytical workshop**

*Meeting date:* June - July 2019, Nanyang Technical University, Singapore

**Data carpentry course (bash, Git, R Markdown, SQL)**, National Socio-Environmental Synthesis Center (SESYNC), Maryland USA, 2015

**SCIENTIFIC PRESENTATIONS**

*SYMPOSIA ORGANIZED*

Ilić, M., I. **McFadden** and N. Narwani (organizers). Blue and green biodiversity: ecological patterns, processes and responses to global change in terrestrial and aquatic systems. 2022. ***International Association for Ecology (INTECOL) Meeting***, Geneva, Switzerland.

*TALKS IN ORGANIZED SYMPOSIA*

**McFadden, I.** ... (33 authors total) ... Anita Narwani. Linking human impacts to community processes in terrestrial and freshwater ecosystems. 2023. ***Ecological Society of Germany, Austria and Switzerland (GfÖ)***, Leipzig, Germany.

**McFadden, I.** ... (33 authors total) ... Anita Narwani. Linking human impacts to community processes in terrestrial and freshwater ecosystems. 2022. ***International Association for Ecology (INTECOL) Meeting***, Geneva, Switzerland.

**McFadden, I.** ... (15 authors total) ... Niklaus Zimmermann. Unpacking the land-sea biodiversity paradox using a 307,467 species dataset. 2022. ***International Association for Ecology (INTECOL) Meeting***, Geneva, Switzerland.

**McFadden, I. et al.** (15 authors total). Unpacking the land-sea biodiversity paradox using a 307,467 species dataset. 2022. ***World Biodiversity Forum***, Davos, Switzerland.

**McFadden, I. et al.** (33 authors total). Linking human impacts to community processes

in terrestrial and freshwater ecosystems. 2022. **World Biodiversity Forum**, Davos.

**McFadden, I.** Towards quantifying seed dispersal effectiveness using computer vision. 2022. **Symposium for Computer Vision in Ecology and Evolution**, WSL Birmensdorf, CH (virtual)

**McFadden, I.,** B. Sandel, C. Tsirogiannis, N. Morueta-Holme, J.-C. Svenning, B. Enquist and N. Kraft. 2018. Climate and topography shape latitudinal gradients in plant beta diversity across the Americas. **Ecological Society of America**, New Orleans, Louisiana USA.

#### INVITED TALKS

- 2023 Department of Biology, Queen Mary University of London, UK (virtual)
- 2023 Naturalis Biodiversity Center, Leiden, the Netherlands
- 2023 School of Biological Sciences, University of Southampton, UK
- 2023 School of Biological Sciences, University of Bristol, UK
- 2022 School of Natural Sciences, Bangor University, Wales, UK
- 2022 WSL Land Change Science Research Unit Meeting, Switzerland (virtual)
- 2021 Senckenberg Biodiversity & Climate Centre Meeting, Germany (virtual)
- 2020 WSL/Eawag Blue-Green Biodiversity Initiative Workshop, Switzerland
- 2020 Biogeography and Macroecology Group Lab Meeting, U. Amsterdam (virtual)
- 2020 Biodiversity Seminar, Swiss Federal Research Institute WSL, Switzerland
- 2019 NCEAS working group meeting: The Botanical Information and Ecology Network (BIEN), Aarhus University, Denmark
- 2019 Smithsonian Forest Global Earth Observatory (ForestGEO) Analytical Workshop, Nanyang Institute of Technology, Singapore
- 2019 WSL Symposium and Workshop on Beta Diversity, Switzerland
- 2017 NCEAS working group meeting: The Botanical Information and Ecology Network (BIEN), University of Arizona, Tucson, Arizona
- 2015 NCEAS working group meeting: Dance with neighbors (ForestGEO network), Sun Yat-Sen University, Guangzhou, China
- 2015 NCEAS working group meeting: Dance with neighbors (ForestGEO network), Department of Ecological Modeling, UFZ, Leipzig, Germany
- 2013 Science Seminar Series, Dominican University, San Rafael, California
- 2012 Lawrence Hall of Science, Berkeley, California
- 2009 Gunung Palung National Park headquarters, Indonesian Borneo
- 2008 Indonesian Institute of Sciences Bogor, Java, Indonesia
- 2007 University of Malaysia, Sabah, Malaysian Borneo

#### CONTRIBUTED PRESENTATIONS AT SCIENTIFIC MEETINGS

**McFadden, I.** ... (33 authors total) ... Anita Narwani. Linking human impacts to community processes: Towards mechanistic models. 2023. **University of Zürich Biodiversity Convention**, Monte Verità, Switzerland.

**McFadden, I, S. Fritz, N. Zimmermann, L. Pellissier, D. Kissling, J. Tobias, M. Schleuning, C. Graham.** Global plant-frugivore trait matching is shaped by climate and biogeographic history. 2022. **Netherlands Annual Ecology Meeting**, Lunteren, The Netherlands.

**McFadden, I, S. Fritz, N. Zimmermann, L. Pellissier, D. Kissling, J. Tobias, M. Schleuning, C. Graham.** Do we find functional matching between plant and animal traits at global scales and if so what does it mean? 2022. **International Association for Ecology (INTECOL) Meeting**, Geneva, Switzerland.

L. de Queiroz, C. Doenz, F. Altermatt, R. Alther, Š. Borko, J. Brodersen, M. Gossner, C. Graham, B. Matthews, **I. McFadden**, L. Pellissier, T. Schmitt, O. Selz, S. Villalba, L. Rüber, N. Zimmermann, O. Seehausen. Historical signatures of biodiversity assembly in the European Alps. 2022. **World Biodiversity Forum**, Davos, Switzerland.

**McFadden, I, S. Fritz, N. Zimmermann, L. Pellissier, D. Kissling, J. Tobias, M. Schleuning, C. Graham.** Global plant-frugivore trait matching is shaped by climate and biogeographic history. 2022. **International Biogeography Society Biennial Meeting**, Vancouver, Canada.

**McFadden, I, S. Fritz, N. Zimmermann, L. Pellissier, D. Kissling, J. Tobias, M. Schleuning, C. Graham.** Global plant-frugivore trait matching is shaped by climate and biogeographic history. 2022. **Biology22**, Basel, Switzerland.

Guevara, E., C. Bello, **I. McFadden**, M. Schleuning, L. Pellissier, C. Poveda, C. Graham. Land-use change effects on interspecific competition in highly diverse hummingbird assemblages. 2021. **Ecological Society of America**, Virtual.

**McFadden, I, S. Fritz, N. Zimmermann, L. Pellissier, D. Kissling, J. Tobias, M. Schleuning, C. Graham.** Global plant-frugivore trait matching is shaped by climate and biogeographic history. 2021. **Ecological Society of America**, Virtual.

**McFadden, I., M. Coelho, R. Wüest, F. Cassemiro, N. Zimmermann, L. Pellissier, T. Rangel, C. Graham.** Global hotspots of recent and ancestral turnover in birds. 2020. **World Biodiversity Forum**, Davos, Switzerland.

**McFadden, I., B. Sandel, C. Tsirogiannis, N. Morueta-Holme, J.-C. Svenning, B. Enquist and N. Kraft.** 2018. Temperature shapes opposing latitudinal gradients of plant taxonomic and phylogenetic  $\beta$  diversity. **Ecological Society of Germany, Austria and Switzerland (GfÖ)**, Münster, Germany.

**McFadden, I., B. Sandel, C. Tsirogiannis, N. Morueta-Holme, J.-C. Svenning, B. Enquist and N. Kraft.** 2018. Climate and topography shape latitudinal gradients in plant beta diversity across the Americas. **Ecological Society of America**, New Orleans, Louisiana USA.

**McFadden, I., Bartlett, M.K., Wiegand, T., Turner, B., Sack, L., Valencia, R., and N. Kraft.** 2018. Disentangling the mechanistic and functional trait drivers of spatial aggregation in tropical forest trees. *Association for Tropical Biology and Conservation*, Kuching, Malaysia

**McFadden, I., R. Valencia, and N. Kraft.** 2017. Drought tolerance and dispersal limitation jointly shape community structure in an aseasonal Amazonian forest. *Ecological Society of America*, Portland, Oregon USA.

Griffey, V., **I. McFadden**, T. W. Gillespie, N. Pinto and N. Kraft. 2017. Species richness and topoclimatic influences on forest canopy height across the Americas. *Ecological Society of America*, Portland, Oregon USA.

**McFadden, I., B. Sandel, C. Tsirogiannis, B. Enquist, B. Boyle, B. McGill, R. Peet, M. Schildhauer, P. Jorgensen, N. Morueta-Holme, J.-C. Svenning, B. Thiers, C. Violle, S. Wiser, R. Condit, S. Dolins, J. Donoghue, W. Piel, N. Spencer, A. Marcuse-Kubitza, J. Regetz, and N. Kraft.** 2017. Climate drives latitudinal and elevational beta diversity gradients across the Americas through elevated tropical speciation rates. *International Biogeography Society*, Tucson, Arizona USA.

**McFadden, I.** 2011. A community-based conservation and healthcare program in Borneo. *Bay Area Conservation Biology Symposium*, Berkeley, California USA.

## **TEACHING EXPERIENCE**

### *GUEST LECTURES*

“Building a global ecology of species interactions.” Fall 2022, Utrecht University, the Netherlands, for ‘Tropical Ecology’ course.

“Evolution, maintenance and conservation of biodiversity.” Fall 2016, UCLA for ‘Why ecology matters: The science behind environmental issues’ course.

### *TEACHING ASSISTANTSHIPS AND CURRICULUM DEVELOPMENT*

**Global Ecology and Biodiversity, University of Amsterdam**, Fall 2022 (MSc level)  
Advised three groups of master’s students on a 3-week research project in macroecology and functional biogeography, included coding in R, presentations and a scientific report.

**Ecology, UCLA**, Winter 2019 (undergraduate)  
Created hybrid research / discussion section involving asking questions, plant trait data collection in botanical garden, sharing and analysis of data, writing and research talks for ~60 students; wrote syllabus, lectured and led discussions, graded assignments and tests.

**Tropical Ecology, UCLA**, Fall 2018 (undergraduate)  
Developed “Asking questions” assignment for ~130 students; wrote a syllabus, lectured and led discussions, graded assignments and tests.

**Conservation Biology, UCLA**, Summer 2018 and Winter 2018 (undergraduate)

Lectured and led discussions, graded assignments and tests.

**Plant Physiology, UCLA, Spring 2018 and Spring 2017 (undergraduate)**

Developed “Asking questions” assignment ~350 students; lectured and led discussions, graded assignments and tests.

**Why Ecology Matters, UCLA, Fall 2016 (undergraduate)**

Developed debate activity for ~40 students; lectured and led discussions, graded assignments and tests.

**Ecology, University of Maryland, College Park, Spring 2013 (undergraduate)**

Lectured and led discussions, graded assignments and tests.

**Ecology and Evolution, University of Maryland, College Park, Fall 2012 (undergraduate)**

Lectured, led discussions and lab exercises, graded assignments and tests.

## OUTREACH

**Article press release:** ‘Why the tropics are so rich in species.’ Covering Coelho *et al.* 2023 *Nature*.

**Article press release:** ‘Past climate helps explain why there are no kangaroos in Bali.’ Covering Skeels *et al.* 2023 *Science*.

**Article press release:** ‘Protecting ecosystems with ecological theory.’ Covering McFadden *et al.* 2022b *Ecology Letters*.

**Article press release:** ‘Open wide! What bird beaks say about tropical biodiversity’.  
Covering McFadden *et al.* 2022a *Ecology Letters*.

**YouTube series:** ETH Domain Blue-Green Biodiversity Initiative outreach videos. 2021.  
Helped film researchers and presented research interests and main research question.

**Article press release:** Back from a century of extinction, conservation proposed for elusive Asian flying squirrel. Written by I. McFadden for Mongabay.com. 2011.

**BBC documentary ‘Life in Cold Blood’ with David Attenborough.** 2006. Assisted BBC cameraman by handling lizards during lab assistantship with Barry Sinervo at UC Santa Cruz.

**Outreach article:** Lauren Quinn, Bonnie Davis, John-Mary Vianney, Desiree Williams, Ian McFadden, Orgiltuya Batjargal, Monika Alas, Mietek Kolipinski, Sibdas Ghosh. 2006. Invasive plant species in horse manure. *US National Park Service*.

## PROFESSIONAL SERVICE

**Reviewer:** NSF Division of Environmental Biology (DOE), *Nature Ecology & Evolution*, *Global Change Biology*, *Ecology Letters*, *Ecology*, *Functional Ecology*, *The American Naturalist*, *Ecography*, *Biotropica*, *Plants People Planet*, *Ecosphere*, *Ecology and Evolution*

**Founder:** Job seekers group, IBED Institute, University of Amsterdam, 2023 - present

**PI-postdoc liaison:** ETH Domain WSL-Eawag Blue-Green Biodiversity (BGB) Initiative; acted as spokesperson and go-between for the 13 BGB postdocs to the project PIs, 2020-2021

**Scientific retreat organizer:** WSL Lighthouse in Biodiversity Initiative, 2019

**Session chair:**

Blue and green biodiversity: ecological patterns, processes and responses to global change in terrestrial and aquatic systems, 2022. INTECOL Meeting, Geneva, Switzerland.

Research and implementation to restore and protect Blue-Green biodiversity, 2022, *World Biodiversity Forum*, Davos, Switzerland

Biodiversity patterns and maintenance, 2022, *International Biogeography Society*, Vancouver, Canada

Forest ecology and conservation, 2018, *ATBC Annual Meeting*, Kuching, Malaysia

**Career day speaker:** Rainforest ecologist, 2016, Academy Middle School, South Los Angeles

**Panel member:** Applying for the NSF Graduate Research Fellowship, 2012, U. of Maryland

**Journal content manager:** *Tropical Conservation Science*, 2010-2012 (& made journal logo)

**SOCIETY MEMBERSHIPS:**

Ecological Society of America, International Biogeography Society

**LANGUAGES:**

English (native), Spanish (conversational), German (beginner), Bahasa (beginner)