Mariana Cecilia Valencia Mestre, Ph. D.

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Current Position

Assistant Teaching Professor, Northeastern University	2022-current
Former Position	
Lecturer, School of Environmental Sustainability, Loyola University Cl	hicago 2018-2021
Education	
PhD in Ecology and Evolutionary Biology, University of Michigan	2017
Master in Science, Ecology and Evolutionary Biology, <i>University of Illinois-Chicago</i>	2010
Bachelor in Biology, Emphasis in Plant Science, <i>University of Panama</i>	2006

Research Interests

Agroecology / Sustainable Food Systems and Farming / Human-Plant Interactions / Rural Sociology / Plant Ecology / Restoration Ecology / Political Ecology

Teaching

Undergraduate Courses – Northeastern University	
Sustainable Agriculture (ENVR 3850)	2023
Sustainable Agriculture Laboratory (ENVR 3851)	2023
Plants and Society (ENVR 3800)	2022
Plants and Society Laboratory (ENVR 3801)	2022
Sustainable Development (ENVR 2515)	2022, 2023
Environmental Sciences (ENVR 1101)	2022
Independent Study Courses – Northeastern University	
Directed Study (HONR 4992)	
Nikhil Agarwal, Effective Agroforestry	Spring 2023
Earth & Environmental Sciences Capstone (ENVR 4900) Ethan St. Aubin, Raised Bed Design and Crop Plan Design for Sustainable Agriculture at NU	Fall 2022

Undergraduate Courses - Loyola University Chicago Sustainable Agriculture (ENVS 325; ENVS 425) The Scientific Basis of Environmental Issues (ENVS 101) Principles of Ecology Lab (ENVS 286 for non-science majors) Principles of Ecology Lab (ENVS 286S for science majors) Soil Ecology (ENVS 223)	2018, 2020, 2021 2018, 2019, 2020, 2021 2019, 2020 2019 2020
Field Course - Loyola University Chicago Agroecosystems (ENVS 326)	Summer 2019
Independent Study Courses - Loyola University Chicago Environmental Research Capstone (ENVS 391-C) Molly Bittner, Food Forest Proposal for Loyola University Lakesha	ore Fall 2021
Campus Isabel Hoyos Arango, Spontaneous Silvo-Pastoral Systems in Color Frankie Rafferty, Evaluating Food Insecurity in Students before and COVID-19 Coronavirus Pandemic at Loyola University Chicago	<u> </u>
Individual Environmental Research (ENVS 391) Nina Connor, Food Forest Proposal for Loyola University Lakesho Campus	ore Fall 2021
Rachel Joyce, Sustainable Agriculture: Science, Practice, and Mov Jonathan Molina, Diversity, Equity and Inclusion Perceptions amor students	
<u>Directed Readings (ENVS 399)</u> Patrick Baranovskis, <i>Agriculture at the Core of Global Freedom St.</i>	ruggles Fall 2019
Teaching Assistant positions – University of Michigan Food, Energy, and the Environment Practical Botany Intro Ecology and Evolutionary Biology	Il Semester 2011, 2012, 2013 Winter Semester 2013 Winter Semester 2012
Teaching Assistant positions – University of Illinois- Chicago	
Population and Community Ecology Organism and Cellular Biology 6	Winter Semester 2009 Semesters from 2007 – 2010

Description: I ran my own lab and discussion sections which lasted 1 hour 30 minutes or longer per section. I designed and facilitated active learning activities, graded assignments, and posted their final grades for the course.

Teaching Assistants Supervised

Caitlin Aquila, Principles of Ecology Lab, Loyola University Chicago	Fall 2021
Kaitlin Frumento, Soil Ecology, Loyola University Chicago	Fall 2021
Cameron McCoy, Scientific Basis of Environmental Issues, Loyola University	Spring 2021
Chicago	
Erin Kilbane, Principles of Ecology Lab, Loyola University Chicago	Fall 2019
Olivia Niosi, Principles of Ecology Lab, Loyola University Chicago	Spring 2019

Mentorship Related to Retention

Loyola University Chicago Empowering Sisterhood (LUCES) – 2	Fall 2019 - Current
undergraduate mentees	
Co-mentorship, Association for Women in Science Mentoring Circle,	Winter 2018
University of Michigan	
Co-mentorship, Dissertation Writing groups, Sweetland Writing	Fall 2016- Winter
Center, University of Michigan	2017
Big Sister Ecology and Evolutionary Biology Program, University of	2013
Michigan	

Student Group Advising

Food Recovery Network at Loyola University Chicago Fall 2020 – Spring 2021

Additional Teaching Preparation

Preparing Future Faculty. Center for Research on Learning and Teaching,	2017 (1 month)
University of Michigan.	
Teaching Socio-Environmental Synthesis with Case Studies. National	2015 (1 week)
Socio-Environmental Synthesis Center (SESYNC).	
Graduate Student Instructor Training. University of Michigan.	2011 (Fall
	Semester)

Fellowship, Grants, and Award

2023	Community Engaged Teaching Fellows Program, NU	\$750
2021	Nominated for Langerbeck Faculty Research Mentor Award, LUC	n/a
2020	Searle Online Course Development Program, Loyola University	\$2000
	Chicago	
2020	Faculty Seminar, All Things Ignatian, Loyola University Chicago	\$2000
2018	Science Communication Fellow, University of Michigan	n/a
2017	Rackham Conference Travel Grant, University of Michigan	\$800
2017	EEB Travel Grant, University of Michigan	\$250
2016	Rackham Conference Travel Grant, University of Michigan	\$618
2015	Block grant, University of Michigan	\$800
2015	EEB Travel Grant, University of Michigan	\$800

2014	Block grant, University of Michigan	\$1,770
2013	Rackham International Research Fellowship, University of Michigan	\$6,500
2013	Block Grant, University of Michigan	\$1,200
2012	Rackham Graduate Student Research Grant, University of Michigan	\$1,500
2012	Block Grant, University of Michigan	\$1,010
2012	Short – term fellowship, Smithsonian Tropical Research Institute	\$800
2012	International Individual Fellowship, University of Michigan	\$4,500
2009	Bodmer Travel Award, University of Illinois-Chicago	\$2,000
2008	UIC Teaching Assistant Colloquium Award, University of Illinois-Chicago	n/a
2007	Secretaria Nacional de Ciencia y Tecnología Graduate Fellowship, UP	Declined

Research Projects

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Collaborators	Title	Institution	Years
			Active
<u>Undergraduate</u>	•		Summer
Mentee -	in Students before and after	University	2020 -
Frankie	COVID-19 Coronavirus	Chicago	Spring
Rafferty	Pandemic at Loyola		2021
	University Chicago		
Undergraduate	Contrasting Approaches to	Loyola	Summer
Mentee – Isabel		University	2020-
Hoyos Arango	-	Chicago,	Spring
,		_	2021
		•	
		e Research	
		Program	
		•	
Adviser- John	From treeless pastures to	University of	2011-
Vandermeer	silvo-pastoral systems: the extent and drivers of tree management styles	Michigan	2018
Undergraduate	(Panama)		
· .			
	Frankie Rafferty Undergraduate Mentee – Isabel Hoyos Arango Adviser- John	Undergraduate Mentee - FrankieEvaluating Food Insecurity in Students before and after COVID-19 Coronavirus Pandemic at Loyola University ChicagoUndergraduate Mentee - Isabel Hoyos ArangoContrasting Approaches to the Improvement of Cattle Ranching in ColombiaAdviser- John VandermeerFrom treeless pastures to silvo-pastoral systems: the extent and drivers of tree management styles (Panama)Undergraduate mentees - Erin Figley and(Panama)	Undergraduate Mentee - FrankieEvaluating Food Insecurity in Students before and after COVID-19 Coronavirus Pandemic at Loyola University ChicagoLoyola University ChicagoUndergraduate Mentee - Isabel Hoyos ArangoContrasting Approaches to the Improvement of Cattle Ranching in ColombiaLoyola University Chicago, Loyola Undergraduat e Research Program (\$2000)Adviser- John VandermeerFrom treeless pastures to silvo-pastoral systems: the extent and drivers of tree management stylesUniversity MichiganUndergraduate mentees - Erin Figley and(Panama)

Co-Investigator	P. I – Trevor Caughlin	Individual decision-making complicates a conceptual model for a forest transition in western Panama (Panama)	University of Florida, University of Michigan	2015- 2017
Master Thesis	Adviser – Henry Howe	Community development and persistence in a long- term tallgrass experimental pairie restoration	University of Illinois- Chicago	September 2009-May 2010
Masters Research	Adviser – Henry Howe Undergraduate Mentee – Nisreen Tayebjee	Restoration Ecology in Lowland Tropical Rain Forest Mexico (Los Tuxtla Biosphere Reserve, Veracruz)	University of Illinois- Chicago	May 2008 - August 2009
Co-investigator	P. I – Scott Mangan	Plant-Soil Feedbacks in Tropical Forest (Barro Colorado Island, Panama)	Smithsonian Tropical Research Institute	February- July 2007
Undergraduate Thesis	Adviser – Sunshine Van Bael	Diversity of Foliar Endophytic Fungi in Two Angiosperm Species: Cordia alliodora (Ruiz y Pau.) Oken and Merremia umbellata (L.) Hallier f (Gamboa, Panama)	University of Panama Smithsonian Tropical Research Institute	2004- 2006
Co-investigator	P. I – Sunshine Van Bael	Interactions Between Foliar Endophytic Fungi and Herbivores (Gamboa, Panama)	Smithsonian Tropical Research Institute	2004- 2006

Publications *Undergraduate mentee

- 1.* Rafferty, F., Schusler, T., & **Valencia Mestre, M.** 2023. College student food security during the COVID-19 pandemic. *Journal of Agriculture, Food Systems, and Community Development*, *12*(2), 79-96.
- 2. Valencia Mestre, M. C., L. Hoey, and J. Vandermeer. 2020. Tree management and balancing process among Panamanian farmers. *Small-Scale Forestry*, 19(4): 541-563
- 3. **Valencia Mestre, M. C.**, B. G. Ferguson, and J. Vandermeer. 2019. Syndromes of production and tree-cover dynamics of Neotropical grazing land. *Agroecology and Sustainable Food Systems* 43-4: 362-385.
- 4. S. A. Mangan, S. A. Schnitzer, E. A. Herre, K. M. L. Mack, **M. C. Valencia**, E. Sanchez, and J. D. Bever. 2010. Variation in strengths of negative plant-soil feedback predicts relative species abundance in a tropical forest. *Nature* 466:752-756.
- 5. Van Bael, S. A., **M. Valencia**, E. Rojas, N. Gómez, D.M. Windsor, & E. A. Herre. 2009. Effects of foliar endophytic fungi on the preference and performance of a leaf beetle, *Chelymorpha alternans* Boheman (Chrysomelidae: Cassidinae). *Biotropica* 41:221-225. 6. Van Bael, S. A., H. Fernandez, **M. Valencia**, E. Rojas, W. Wcislo, E.A. Herre. 2009. Two fungal symbioses collide: Endophytic fungi are not welcome in leafcutting ant gardens. *Proceedings Royal Society of London Series B.* 276: 2419- 2426.

Fieldwork Reports

- 1. **Valencia Mestre, M.** 2018. "Cobertura arbórea en fincas ganaderas de Panamá." Translation: Tree cover area in cattle ranches of Panama. Delivered to Study Participants.
- 2. **Valencia Mestre, M.** 2013. "Los árboles de las fincas ganaderas en la Provincia de Chiriquí, República de Panamá." Translation: The trees of the cattle ranching farms in the Chiriqui Province, Republic of Panama. Delivered to Study Participants.

Presentations

Congress and Meetings

- 1. **Valencia Mestre, M.** and J. Vandermer. Tree management across cattle pastures in the Republic of Panama. *Ecological Society of America Annual Meeting, Contributed Talk.*
- 2. **Valencia Mestre, M.,** L. Hoey, L. and J. Vandermer. A Chayanovian analysis of tree management among Panamanian farmers. *Michigan University-Wide Sustainability and Environment Conference, Ignite Talk.*
- 3. **Valencia Mestre, M.**, B. Ferguson and J. Vandermeer. Sudden change in silvo-pastoral systems: relaxing the linear and monotonic assumptions. *American Association of Geographers Annual Meeting, Poster Presentation.*
- 4. **Valencia Mestre, M.,** T. Caughlin and J. Vandermeer. From treeless pastures to silvopastoral systems: pasture syndromes across the Republic of Panama. *Association of Women in Agroecology, Poster Presentation*.

5. Valencia Mestre, M., J. Brown and H. Howe. Development in a six year tall grass restoration experiment: Effects of planting season and density on diversity. <i>Ecological</i>	2010
Society of America Meeting, Poster Presentation.	
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Department Seminar	
1. Valencia Mestre, M. and J. Vandermeer. From treeless pastures to silvo-pastoral	2017
systems: the extent and drivers of tree management styles. Ecology and Evolutionary	
Biology Seminar, University of Michigan.	
2. Valencia Mestre, M. and J. Vandermeer. Sudden change in agro-silvo pastoral	2013
systems: from linear to non-linear to non-monotonic. Ecology and Evolutionary Biology	
Lunch Seminar, University of Michigan.	
Guest Speaker	
1. Valencia Mestre, M. Panelist for Leading Women in Public Service. Leading Women	2020
of Tomorrow, Loyola University Chicago	
2. Valencia Mestre, M. "Cobertura Arbórea en Fincas Ganaderas de Panamá" (Tree	2019
Cover in Panamanian Cattle Ranches) for the workshop entitled "Indagar, aprender y	
conservar, una aventura de ciencias con Smithsonian" (Inquiry, learning and	
conservation, a science adventure with Smithsonian). Smithsonian Tropical Research	
Institute.	
3. Valencia Mestre , M. From treeless pastures to silvo-pastoral systems: the extent and	2018
drivers of tree management styles. STEP Food Systems Class, Loyola University Chicago	
4. Valencia Mestre, M. Biodiversity and Restoration. Lake Forest College, Illinois.	2009
5. Guest Field Ecology Instructor, Field Biology Course. Smithsonian Tropical	2009
Research Institute, Gamboa, Republic of Panama.	
6. Valencia Mestre, M. Panama, more dynamic than meets the eye. Lake Forest College,	2007
Illinois.	
Undergraduate Mentee Presentations	
1. Bittner, M. and N. Connor. Loyola Lakeshore Campus Food Forest Proposal. Loyola's	2022
2022 Undergraduate Research and Engagement Symposium. Poster Presentation.	
Faculty mentor Valencia Mestre, M.	
2. Rafferty, F. and Valencia Mestre, M. Evaluating Food Insecurity in Students before	2021
and after COVID-19 Coronavirus Pandemic at Loyola University Chicago. Climate	
Change Conference, Loyola University Chicago. Oral Presentation.	
3. Rafferty, F. and Valencia Mestre, M. Evaluating Food Insecurity in Students before	2021
and after COVID-19 Coronavirus Pandemic at Loyola University Chicago. National	
Conference on Undergraduate Research. Oral Presentation.	
4. Hoyos Arango, I. and Valencia Mestre, M. Contrasting Approaches to the	2021
Improvement of Cattle Ranching in Colombia. National Conference on Undergraduate	
Research, Poster Presentation.	

6. Hoyos Arango, I. and Valencia Mestre, M. Contrasting Approaches to the Improvement of Cattle Ranching in Colombia. Loyola's Virtual Undergraduate Research and Engagement Symposium. Poster Presentation. Public Outreach 1. Scientist Spotlight at Forsythe Middle School, Ann Arbor, MI. 2018 (one Description: In door demonstration of the social-ecological processes that lead to the observed trees on cattle ranches. 2018 (one day event) lead to the observed trees on cattle ranches. 2018 (one day Exerciption: In door demonstration of the social-ecological processes that lead to the observed trees on cattle ranches. For General Public. 3. D-Town Farm Bio-Blitz, Detroit, MI. Description: Science 2015, 2018 demonstrations for children from Age 8-13. (one day event) 4. ID Day, Museum of Natural History, University of Michigan. 2014, 2016 (one day event) Public. 5. Ecology Workshop at Peace Community Center, Ann Arbor, MI. 2015 (one day event) Public. 5. Ecology Workshop at Peace Community Center, Ann Arbor, MI. 2015 (one day event) elementary school students. 6. Belle Isle Bio-Blitz, Detroit, MI. 2013. Description: Outdoor science activity with students 13–14-year-old. event) Service - Committees 1. Undergraduate Curriculum Committee, Marine and Environmental Science Department, Northeastern University 2. Award Committee, School of Environmental Sustainability, Loyola University Chicago 3. Steering Committee Member of Module Development. Training Spring 2020-Fall 2021 University Chicago 3. Steering Committee Member of Module Development. Training Spring 2020-Fall 2021 NSF-Undergraduate Biologists through Urban Agriculture (TUBA). Program: NSF-Undergraduate Biologists through Urban Agriculture (TUBA). Program: NSF-Undergraduate Biologists through Urban Agriculture (TUBA). Program: Spring 2020-Fall 2021 NSF-Undergraduate Biologists of Assistant Professor in Environmental Policy, Fall 2020 - Spring School of Environmental Sustainability, Loyola University Chicago	5. Donaldson, A., I. Hoyos Arango, J. Molina, M. Valencia Mestre , and T. Diversity, Equity, and Inclusion Within Loyola University's School of Environment Sustainability: Pilot Climate Survey. <i>Loyola's Virtual Undergraduate Resea Engagement Symposium. Poster Presentation</i> .	ronmental
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6. Belle Isle Bio-Blitz, Detroit, MI. 2013. Description: Outdoor science activity with students 13–14-year-old. Service - Committees 1. Undergraduate Curriculum Committee, Marine and Environmental Science Department, Northeastern University 2. Award Committee, School of Environmental Sustainability, Loyola University Chicago 3. Steering Committee Member of Module Development. Training Undergraduate Biologists through Urban Agriculture (TUBA). Program: NSF-Undergraduate Biology Education-Research Collaboration Network 4. Search Committee for Assistant Professor in Environmental Policy, School of Environmental Sustainability, Loyola University Chicago 2013 (one day event) Fall 2022-current Fall 2022-current Fall 2020-Fall 2021 Fall 2020-Fall 2021 Spring 2020-Fall 2021 Fall 2020 - Spring 2020-Spring School of Environmental Sustainability, Loyola University Chicago 2021	<u>Description</u> : In door science activities for an after-school program with	event)
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Service - Committees 1. Undergraduate Curriculum Committee, Marine and Environmental Science Department, Northeastern University 2. Award Committee, School of Environmental Sustainability, Loyola University Chicago 3. Steering Committee Member of Module Development. Training Undergraduate Biologists through Urban Agriculture (TUBA). Program: NSF-Undergraduate Biology Education-Research Collaboration Network 4. Search Committee for Assistant Professor in Environmental Policy, School of Environmental Sustainability, Loyola University Chicago 2021	6. Belle Isle Bio-Blitz, Detroit, MI. 2013. <u>Description</u> : Outdoor science	2013 (one day
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Science Department, Northeastern University 2. Award Committee, School of Environmental Sustainability, Loyola University Chicago 3. Steering Committee Member of Module Development. Training Undergraduate Biologists through Urban Agriculture (TUBA). Program: NSF-Undergraduate Biology Education-Research Collaboration Network 4. Search Committee for Assistant Professor in Environmental Policy, School of Environmental Sustainability, Loyola University Chicago Spring 2020-Fall 2021 Fall 2020-Fall 2021 Spring 2020-Fall 2021	Service - Committees	
University Chicago 3. Steering Committee Member of Module Development. Training Undergraduate Biologists through Urban Agriculture (TUBA). Program: NSF-Undergraduate Biology Education-Research Collaboration Network 4. Search Committee for Assistant Professor in Environmental Policy, School of Environmental Sustainability, Loyola University Chicago 2021		Fall 2022-current
Undergraduate Biologists through Urban Agriculture (TUBA). Program: NSF-Undergraduate Biology Education-Research Collaboration Network 4. Search Committee for Assistant Professor in Environmental Policy, School of Environmental Sustainability, Loyola University Chicago 2021	·	Fall 2020-Fall 2021
NSF-Undergraduate Biology Education-Research Collaboration Network 4. Search Committee for Assistant Professor in Environmental Policy, School of Environmental Sustainability, Loyola University Chicago 2021	3. Steering Committee Member of Module Development. Training	Spring 2020-Fall
Network 4. Search Committee for Assistant Professor in Environmental Policy, School of Environmental Sustainability, Loyola University Chicago 2021	Undergraduate Biologists through Urban Agriculture (TUBA). Program:	
4. Search Committee for Assistant Professor in Environmental Policy, School of Environmental Sustainability, Loyola University Chicago Fall 2020 – Spring 2021		
School of Environmental Sustainability, Loyola University Chicago 2021		Fall 2020 – Spring
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J. Diversity, Equity, and inclusion Committee. Institute of Fan 2019- Simmer	5. Diversity, Equity, and Inclusion Committee, Institute of	Fall 2019- Summer
Environmental Sustainability, Loyola University Chicago 2020		

Service - Manuscript Reviewer

Service - Community Outreach

1. Peterson Garden Project Volunteer, Chicago IL	2019 and 2021
2. Moderator at the Good Food Expo, Chicago, IL	2019 (one day event)
3. Translator at the Local Food Summit, Ypsilanti, MI	2017 (one day event)
4. Canvassing for Flint Rising, Flint, MI. <u>Description</u> : Canvassing of	2016 (one day event)
individuals in Flint Michigan during the water crisis.	
5. Driver and host for Ecology and Evolutionary Biology graduate	2013, 2015, 2016
recruitment weekends at the University of Michigan	(week wide event)
6. Volunteer for Teach-in +50 at University of Michigan. <u>Description</u> :	2015
Assist in the promotion and implementation of the university wide	(week wide event)
event.	

Additional Professional Paid Work Experience

1. Graduate Student Curatorial Assistantships (GSCAs) in the Fish Division , Museum of Zoology. University of Michigan. <u>Description</u> : digitize fish images employing Photoshop software, catalog images in the Museum of Zoology	2014-2017
database. 2. Research Field Director, Smithsonian Tropical Research Institute.	2011
Benefits of silvo-pastoral systems for biodiversity. <u>Description</u> : Execute a bird diversity survey across the Panama Canal Watershed.	2011
3. Project Launch Coordinator for ecoReserve and Earth Train. Description:	2010
development of the conservation scheme of the Mamoni Reserve employing	
remote sensing and ground assessments of household needs.	
4. Naturalist Guide at the Barro Colorado Nature Monument, Smithsonian	2004-2007
Tropical Research Institute, Republic of Panama	(recurring)
5. Naturalist Guide at the Marine Exhibition Center, Smithsonian Tropical	2004
Research Institute, Republic of Panama	(recurring)

Professional Affiliations

New World Agriculture and Environmental Group, University of Michigan / Ecological Society of America / Association for Women in Science / Association of Women in Agroecology – Asociación de Mujeres in la Agroecologia