

Monica Granados, PhD

Open science, data and communication specialist

monica.granados@alumni.utoronto.ca

Twitter/Github: @Monsauce

www.monicagranados.com

Professional History

2023-Present Assistant Director, Open Climate, *Creative Commons*

- Lead all aspects and maintain the strategic focus of the Open Climate Campaign
- Implement, maintain and monitor project plans, project schedules, and budgets for each Campaign goal.
- Deliver national and international presentations on the Campaign
- Liaise with national and international organizations and governments to further Campaign goals
- Coordinate team members to keep workflow on track

2022-2023 Open Climate Campaign Manager, *Creative Commons*

- Developed strategy for 4-year campaign to open climate change and biodiversity research
- Managed the day-to-day operations of the Campaign
- Developed Campaign communication outputs and materials
- Coordinated with partners, stakeholders and steering committee to launch the Open Climate Campaign

2018-2022 Senior Policy Advisor, Communication and Open Science Section, *Environment and Climate Change Canada*

- Led the consultation, development and delivery of Environment and Climate Change Canada's Open Science Action Plan
- Represent Canada as part of the Canadian delegation to the G7 Open Science Working Group
- Served as subject matter expert for Canada on the UNESCO Open Science Recommendation negotiations
- Led Environment and Climate Change Canada open science team since April 2021
- Led the inter-agency Open Science committee
- Provided subject matter expertise on open science and open data
- Prepared briefing notes, scenario notes and memos on open science and science policy to senior management
- Managed Environment and Climate Change Canada's Science and Technology Branch Twitter Account
- Policy Advisor from 2020-2021, Science Policy Fellow 2018-2020

2017-Present Leadership Team, *PREreview*

- Provide strategic advice and leadership to the PREreview team in service of the organization's mission to bring more equity and transparency to scholarly peer review.
- Create and deliver curriculum for reviewing preprints with equity at the centre
- Deliver international presentations on increasing diversity in peer review
- Lead the live preprint journal club initiative – an online meeting platform to collaboratively review preprints
- Write grants for PREreview's operations and projects

2016-2021 Scientific data scientist consultant, *Various federal and municipal departments*
Highlights: I used my programming and data visualization skills to develop reproducible code and interactive web applications for the study of population trends in fish communities to create reports and dashboards for decision makers.

2016- 2018 Postdoctoral fellow, *University of Guelph and Wildlife Conservation Society Canada*
Highlights: Developed early warning indicator tools for freshwater monitoring in Ontario's Far North, developed mobile app to facilitate access to fish consumption guidelines

Education

2010-2016 PhD, Department of Biology, *McGill University*

2008-2010 MSc, Department of Ecology and Evolutionary Biology, *University of Toronto*

2001-2006 HBSc, Department of Zoology, *University of Toronto*

Publications

10. Roche DM, Granados, M, Austin, CC, Wilson, S, Mitchell, GM, Smith, PA, Cooke, SJ and Bennett, JR. 2020. Open government data and environmental science: A Federal Canadian perspective. *FACETS*. 5: 942–962.
9. Granados, M, Pagnucco, KS and A Ricciardi. 2019. Consequences of consumer origin and omnivory on stability in experimental food web modules. *Freshwater Biology*. 10: 1867-1874.
8. McCann, KS, Bartley, TJ, Granados, M, Guzzo, MM, Tunney, TD, Cazelles, K and BC McMeans. Nature rewires in a changing world. 2019. *Nature Ecology and Evolution*. 3, pages 345–354.
7. Granados, M, Altshuler, I, Plourde, S and GF Fussman. 2017. Size and variation in individual growth rates among food web modules. *Ecosphere*. 8: e01862
6. Granados, M, Duffy, S, McKindsey, CW and GF Fussmann. 2017. Stabilizing mechanisms in a food web with an introduced omnivore. *Ecology and Evolution*. 7: 5016–5025
5. Cherif, M, Granados, M, Duffy, S, Robert, P, Paquin, B, Mohit, V, McKindsey, C, Archambault, P, Myrand, B, Lovejoy, C, Tremblay, R, Plourde, S and GF Fussmann. 2015. Potential for local fertilization: A benthocosm test of long-term and short-term effects of mussel excretion on the plankton. *PLoS ONE*. 11: e0156411

4. Pedersen, EJ, Marleau, JN, Granados, M, Moeller, HV and F Guichard. 2016. Non-hierarchical movement promotes stability and resilience in a tri-trophic metacommunity. *American Naturalist*. 187: E116-128. Recommended by the Faculty of 1000
3. Low-Décarie, E, Chivers, C and M Granados. 2014. Rising complexity and falling explanatory power in ecology. *Frontiers in Ecology and the Environment* 12: 412-418. Profiled in Science Magazine's Science Insider
2. Granados, M, Mandrak, NE and DA Jackson. 2014. Synthesizing reference conditions for highly degraded areas through best professional judgment. *Journal of Great Lakes Research*. 40 (S2): 37-42.
1. Granados, M, St John, M and R Portiss. 2012. Generating heterogeneity: Fish hooks induce community change. *Ecological Restoration* 30: 15-18.

Grants and Fellowships

Wellcome Trust Open Research Discretionary Award (2020), Frictionless Data Reproducible Research Fellowship (2019), Wellcome Trust Research Enrichment - Diversity and Inclusion (2019), Sloan Foundation Grant (2018, 2019), Wellcome Trust Open Research Fund (2018), Mitacs Canadian Science Policy Fellowship (2018), Bourse postdoctorale, Fonds de recherche du Québec nature et technologies (2017), Elevate Postdoctoral Fellowship, Mitacs-Canada (2016), Centre for Applied Mathematics in Biosciences and Medicine Fellowship (2013), Quebec Center for Biodiversity Science Excellence Award (2012)

Awards and Honors

NASA Transform to Open Science Community Panel (2022), Government of Canada Recruitment of Policy Leaders (2021), New Science: Queer and intersectional identities are revolutionizing how science gets done exhibit participant (2021). Sigma Xi Associate Member (2021), Dr. Roberta Bondar STEM Career Development Program (2021), Emerging Scholar Open Scholarship Award Honorable Mention (2019), OpenCon scholarship (2018), Mozilla Open Science Lab Open Science Lead (2016), McGill Biology Department student seminar speaker (2015), Innocentive Visualizing Nutrients Challenge Runner-up (2015), Ecological Society of America EcoService Award (2012), BIO150 Outstanding Teaching Assistant Award (2008)

Teaching

- 2016-Present Open science and reproducibility workshops - Quebec Center for Biodiversity Science, R Ladies, Environment and Climate Change Canada, Government of Canada
- 2016-Present Improvisation for science communication – OceanWise, WCS Canada, BES CREATE Program, Environment Canada, Girls for Innovation - Research, Leadership & Science Camp
- 2014-2017 Data analysis/visualization workshop designer and presenter - Quebec Centre for Biodiversity Science
- 2012-2013 First-year biology laboratory developer - McGill University
- 2010-2015 Teaching assistant biology, ecology and evolution - McGill University
- 2008-2010 Teaching assistant biology, ecology- University of Toronto

Volunteer Experience and Outreach

Volunteer, *Sauvetage Bénévole Outaouais - Ottawa Volunteer Search and Rescue* (2021-Present), Symposium Board Committee, *SCWIST Symposium for Young Scientists* (2021), Advisory Committee, *IAI Science and Technology Policy Fellowship Program* (2019-Present), Board of Directors, *Canadian Open Data Society* (2019-Present), Science Communicator, *Skype a Scientist* (2017-Present), Science Communicator, *Idea Mosaic* (2017-Present), Mentor, *Mozilla Open Science Lab* (2017 -2019), Open Science officer, *Ecological Society of America* (2016-2019), Open Lead, *Mozilla Open Science Lab* (2016-2017); Mentor, *Letters to a pre-scientist* (2015-2021); Founder, *descienceblog.tumblr.com* (2015-Present); Organizer, *QCBS Research Derby* (2015-2016); Organizer, *Data for Good Montreal* (2014-2015); Workshop designer, *Action Potential Lab* (2014-2018); Badging program co-developer, *National Center for Ecological Analysis and Synthesis* (2014); Graphic designer, *Eco-quartier NDG* (2014); Science consultant; *Éclairs de sciences* (2013-2014), Statistics consultant; *Ontario Streams* (2010-2013); Biologist, *Citizen Scientists* (2008-2009); Presenter, *Toronto Region Conservation Authority* (2008-2010); Student ambassador, *Toronto Zoo* (2008)

Selected Media

"New Science: Queer and intersectional identities are revolutionizing how science gets done." August 2021 <https://www.calacademy.org/exhibits/new-science-exhibit>

"The Know Show Podcast – The Importance of open access to research to scientists and policy makers." August 2021. <https://tinyurl.com/ev3t6etr>

"Exploring by the Seat of Your Pants – Becoming Junior Scientists." February 2021. <https://tinyurl.com/9mh9ebze>

"Science Disrupt: Innovator Stories – Episode 3" Science Disrupt Podcast. June 2019. <https://tinyurl.com/y2h9kfy5>

"Citizen science." Discover Magazine. October 2014. <https://tinyurl.com/y7h4omqv>

"How do Zebras get their stripes?" mental_floss. October 2012. <https://tinyurl.com/ya62lfxd>

Workshops and Presentations

Competitive selection workshops: Best of Banff Science Communications Program (2021), SPE Science Diplomacy Workshop (2018), Science Outside the Lab North (2017), Mozilla Working in the Open Workshop (2017), National Institute for Mathematical and Biological Synthesis Current Issues in Ecological Statistics Workshop (2015), Ecological Society of America Earth Stewardship Initiative Fellow (2014), National Center for Ecological Synthesis and Analysis Open Science for Synthesis (2014), Mathematical Biosciences Institute Summer Graduate Program (2011)

Invited lectures: UN Open Science Conference (2021), Environment and Climate Change Canada (2020), Canadian Institute of Ecology and Evolutionary Biology (2020), University of Delaware (2018), McGill University (2015), Carlton University (2011), Toronto Science Policy Network (2021).

Guest lectures: Introduction to aquatic environments, University of Guelph (2017), Advances in aquatic ecology, McGill University (2015)

Oral and/or poster presentations contributed: North American Congress for Conservation Biology (2018), Ecological Society of America (2012, 2014, 2017), Conference on Great Lakes Research

(2009, 2010), Canadian Society for Ecology and Evolution (2010, 2014), CSV Conf (2020), Carpentry Con (2020), Centre for Journalism Speaker Series (2021), Treasury Board Secretariat Experimentation Works (2021), Toronto Science Policy Network (2021), United Nations Open Science Conference (2021).

Languages

Fluent in English and Spanish