

MATTHEW G.E. MITCHELL

Faculty of Land and Food Systems
University of British Columbia
248-2357 Main Mall, Vancouver, BC, Canada V6T 1Z4
Email: matthew.mitchell@ubc.ca
Tel: +1.778.580.8222
Web: mgemitchell.weebly.com

EDUCATION

2014 PhD, Renewable Resources, McGill University, Montreal, Canada
2006 MSc, Ecology, University of Alberta, Edmonton, Canada
2002 BSc, Biology (Honours with distinction), University of Victoria, Victoria, Canada

ACADEMIC POSITIONS

2020–present Research Associate, Faculty of Land and Food Systems, University of British Columbia, Vancouver, Canada.
2021–present Interim Research Manager, Centre for Sustainable Food Systems, University of British Columbia, Vancouver, Canada. [*6 month part-time position*]
2016–2019 Postdoctoral Fellow, Institute for Resources, Environment and Sustainability, University of British Columbia, Vancouver, Canada. [*Parental leave June–December 2017*]
2014–2016 Postdoctoral Fellow, School of Earth and Environmental Sciences, University of Queensland, Brisbane, Australia.

PUBLICATIONS (students co-supervised are underlined)

Summary (to date)

H-index: 20 (Google Scholar); 15 (Web of Science/Publons)

Total citations: 2056 (Google Scholar)

Papers in refereed journals: 32

Peer-reviewed reports and book chapters: 6

Non-peer reviewed publications: 7

Peer-reviewed Publications

32. Kreitzman M, Eyster H, **Mitchell MGE**, Czajewska A, Keeley K, Smukler S, Sullivan N, Verster A, Chan KMA. *In Press*. Woody perennial polycultures in the U.S. Midwest enhance biodiversity and ecosystem functions. *Ecosphere*.
31. **Mitchell MGE**, Hartley E, Tsuruda M, Bennett E, Gonzalez A. 2021. Contrasting responses of parasitoids and hyperparasitoids to forest fragments and agricultural landscape structure. *Agriculture, Ecosystems and Environment*. **326**: 107752.
30. Palliwoda J, Fischer J, Felipe-Lucia MR, Palomo I, Neugarten R, Büermann A, Price MF, Torralba M, Eigenbrod F, **Mitchell MGE**, Beckmann M, Seppelt R, Schröter M. 2021. Ecosystem service coproduction across the zones of biosphere reserves in Europe. *Ecosystems and People*. **17(1)**: 491-506.
29. **Mitchell MGE**, Schuster R, Jacob AL, Hanna DEL, Ouellet Dallaire C, Raudsepp-Hearne C, Bennett E, Lehner B, Chan KMA. 2021. Identifying key ecosystem service providing areas to inform national-scale conservation planning. *Environmental Research Letters* **16**: 014038.

28. **Mitchell MGE**, Chan KMA, Newlands NK, Ramankutty N. 2020. Spatial correlations don't predict changes in agricultural ecosystem services: a Canada-wide case study. *Frontiers in Sustainable Food Systems* 4: 539892.
27. Duarte GT, **Mitchell MGE**, Martello F, Gregr EJ, Paglia AP, Chan KMA, Ribeiro MC. 2020. A user-inspired framework and tool for restoring multifunctional landscapes – putting into practice stakeholder and scientific knowledge of landscape services. *Landscape Ecology* 35(11): 2535-2548.
26. Mandle L, Shields-Estrada AK, Chaplin-Kramer R, **Mitchell MGE**, Bremer LL, Gourevitch JD, Hawthorne P, Johnson JA, Robinson BE, Smith JR, Sonter LJ, Verutes GM, Vogl AL, Daily GC, Ricketts TH. 2020. Increasing decision-relevance of ecosystem service science. *Nature Sustainability* 4: 161-169.
25. Suarez Castro AF, Mayfield M, Cattarino L, **Mitchell MGE**, Maron M, Rhodes J. 2020. Correlations and variance among species traits explain contrasting impacts of fragmentation and habitat loss on functional diversity. *Landscape Ecology* 35(10): 2239-2253.
24. Dade MC, **Mitchell MGE**, Brown G, Rhodes JR. 2020. The effects of urban greenspace characteristics and socio-demographics vary among cultural ecosystem services. *Journal of Urban Forestry & Urban Greening* 49: 126641.
23. Dainese M, Martin EA, ...**Mitchell MGE***, et al. 2019. A global synthesis reveals biodiversity-mediated benefits for crop production. *Science Advances* 5(10): eaax0121. (*One of ~100 coauthors)
22. Schmidt M, Nendel C, Funk R, **Mitchell MGE**, Lischoid G. 2019. Modeling yield response to shading in the field-to-forest transition zones in heterogeneous landscapes. *Agriculture* 9(1): 6.
21. Dade MC, **Mitchell MGE**, McAlpine CA, Rhodes JR. 2018. Assessing ecosystem service trade-offs and synergies: the need for a more mechanistic approach. *Ambio* 48(10): 1116-1128.
20. Karp D, Chaplin-Kramer R, ...**Mitchell MGE***, et al. 2018. Crop pests and predators exhibit inconsistent responses to surrounding landscape composition. *Proceedings of the National Academy of Sciences of the USA* 115(33): E7863—E7870. (*One of ~150 coauthors)
19. Muneret L, **Mitchell MGE**, Seufert V, Aviron S, Aziz Djoudi E, Pétilion J, Plantegenest M, Thiéry D, Rusch A. 2018. Evidence that organic farming promotes pest control. *Nature Sustainability* 1: 361-368.
18. Frei B, Renard D, **Mitchell MGE**, Seufert V, Chaplin-Kramer B, Rhemtulla J, Bennett EM. 2018. Bright spots in agricultural landscapes: identifying areas exceeding expectations for multifunctionality and biodiversity. *Journal of Applied Ecology* 55(6): 2731-2743.
17. Wilkerson M, **Mitchell MGE**, Shanahan D, Wilson K, Ives CD, Lovelock CE, Rhodes JR. 2018. The role of socio-economic factors in planning and managing urban ecosystem services. *Ecosystem Services* 31: 102-110.
16. Suarez-Castro F, Simmonds JS, **Mitchell MGE**, Maron M, Rhodes JR. 2018. The scale-dependent role of biological traits in landscape ecology: a review. *Current Landscape Ecology Reports* 3: 12-22.
15. **Mitchell MGE**, Johansen K, Maron M, McAlpine C, Wu D, Rhodes JR. 2018. Identification of fine scale and landscape scale drivers of urban aboveground carbon stocks using high-resolution modeling and mapping. *Science of the Total Environment* 622-623C: 57-70.
14. Maron M, **Mitchell MGE**, Runtting RK, Rhodes JR, Mace GM, Keith DA, Watson JEM. 2017. Towards a threat assessment framework for ecosystem services. *Trends in Ecology & Evolution* 32(4): 240-248.
13. **Mitchell MGE**, Wu D, Johansen K, Maron M, McAlpine C, Rhodes JR. 2016. Landscape structure influences urban vegetation vertical structure. *Journal of Applied Ecology* 53(5): 1477-1488.
12. Caynes R, **Mitchell MGE**, Wu D, Johansen K, Rhodes JR. 2016. Using high-resolution LiDAR data to quantify the three-dimensional structure of vegetation in urban green space. *Urban Ecosystems* 19(4): 1749-1765.

11. **Mitchell MGE**, Bennett EM, Gonzalez A, Lechowicz M, Rhemtulla J, Cardille J, Vanderheyden K, Poirier-Ghys G, Renard D, Delmotte S, Albert C, Rayfield B, Dumitru M, Huang H, Kipp R, Larouche M, Liss K, Maguire D, Martins K, Terrado M, Ziter C, Taliana L, Dancose K. 2015. The Montérégie Connection: Linking landscapes, biodiversity, and ecosystem services to improve decision-making. *Ecology & Society* 20(4): 15.
10. **Mitchell MGE**, Suarez-Castro AE, Martinez-Harms M, Maron M, McAlpine C, Gaston K, Johansen K, Rhodes JR. 2015. Landscape fragmentation and ecosystem services: a reply to Andrieu et al. *Trends in Ecology & Evolution* 30(11): 634-635.
9. **Mitchell MGE**, Bennett EM, Gonzalez A. 2015. Strong and nonlinear effects of fragmentation on ecosystem service provision at multiple scales. *Environmental Research Letters* 10(9): 094014.
8. **Mitchell MGE**, Suarez-Castro AE, Martinez-Harms M, Maron M, McAlpine C, Gaston K, Johansen K, Rhodes JR. 2015. Reframing landscape fragmentation's effects on ecosystem services. *Trends in Ecology & Evolution* 30(4): 190-198.
7. **Mitchell MGE**, Bennett EM, Gonzalez A. 2014. Agricultural landscape structure affects arthropod diversity & arthropod-derived ecosystem services and disservices. *Agriculture, Ecosystems & Environment* 192(1): 144-151.
6. **Mitchell MGE**, Bennett EM, Gonzalez A. 2014. Forest fragments modulate the provision of multiple ecosystem services. *Journal of Applied Ecology* 51(4): 909-918.
5. Liss KN*, **Mitchell MGE***, MacDonald GK, Mahajan S, Méthot J, Jacob AL, Maguire D, Metson G, Ziter C, Dancose K, Martins K, Terrado M, Bennett EM. 2013. Variability in ecosystem service measurement: a pollination service case study. *Frontiers in Ecology and the Environment* 11(8): 414-422. *Authors contributed equally to this work
4. **Mitchell MGE**, Bennett EM, Gonzalez A. 2013. Linking landscape connectivity and ecosystem service provision: current knowledge and research gaps. *Ecosystems* 16(5): 894-908. [Recommended by F1000Prime]
3. **Mitchell MGE**, Cahill JF, Hik DS. 2009. Plant interactions are unimportant in a subarctic-alpine plant community. *Ecology* 90(9): 2360-2367.
2. **Mitchell MGE**, Antos JA, Allen GA. 2004. Modules of reproduction in females of the dioecious shrub *Oemleria cerasiformis*. *Canadian Journal of Botany* 82: 393-400.
1. Nigh GD, **Mitchell MGE**. 2003. Development of height-age models for estimating juvenile height of coastal Douglas-fir in British Columbia. *Western Journal of Applied Forestry* 18(3): 207-212.

In Review & In Preparation

5. **Mitchell MGE**, Devisscher T. *In Review*. Strong relationships between urbanization, landscape structure, and ecosystem service multifunctionality in urban forest fragments. *Landscape & Urban Planning*.
4. Suarez-Castro AE, Maron M, **Mitchell MGE**, Rhodes J. *In Review*. Disentangling direct and indirect effects of landscape structure on urban bird richness and functional diversity. *Ecological Applications*.
3. Howey T, **Mitchell MGE**. *In Prep*. Wildfire smoke has significant but varied effects on terrestrial mammal, bat, and bird activity in a mixed agricultural-forest landscape. *Remote Sensing in Ecology and Conservation*.
2. Hohlenwerger C, Graham LJ, Rhodes J, Fortin, M-J, **Mitchell MGE**, Schröter B, Eigenbrod F, Cord A, Morais Vidal M, Tambosi LR, Metzger JP. *In Prep*. Using a social-ecological network approach to determine the effects of landscape structure on coffee yield. *People and Nature*.

1. Lipka JA, Hengel K, **Mitchell MGE**, Smith KE, Carrillo J. *In Prep*. Introduced and native bumble bee species respond differently to floral resources, land cover, and trace lead (Pb) concentration along a gradient of urbanization. *Basic and Applied Ecology*.

Peer-reviewed reports and book chapters

6. **Mitchell MGE**. 2022. Ecosystem Services in the Landscape. In: *Routledge Handbook of Landscape Ecology* (eds. Perry G, Francis R, Millington J, Minor E). Routledge Press.
5. Molnar M, Olmsted P, **Mitchell M**, Raudsepp-Hearne C. 2021. Our Natural Capital: Ecosystem Services. In: *Canada in a Changing Climate: National Issues*. Natural Resources Canada, Ottawa, ON.
4. Bennett EM, Albert CH, Ball A, Cardille JA, Dancose K, Delmotte S, Gonzalez A, Hui-Huang H, Lechowicz M, Liss KN, Kipp R, Maguire DY, Mahajan SL, **Mitchell MGE**, Teixeira-Martins K, Raudsepp-Hearne C, Renard D, Rhemtulla JM, Taliana L, Terrado M, Ziter C. 2019. The Montréal Connection: Understanding how ecosystems can provide resilience to the risk of ecosystem service change. In: *Atlas of Ecosystem Services* (eds. Schröter M, Bonn A, Klotz S, Seppelt R, Baessler C). Springer International Publishing. Cham, Switzerland. P. 291-300.
3. Robertson C, Schuster R, **Mitchell MGE**, Cameron R, Jacob A, Preston S, Neupane A, Vickers A, McMillan S. 2017. *Identifying areas important for biodiversity and ecosystem services in Canada – A Pathway to Canada Target 1 Expert Task Team Paper*. Environment and Climate Change Canada, Ottawa, ON.
2. Auzel P, Gaonac'h H, Poisson F, Siron R, Calmé S, Belanger M, Bourassa MM, Kestrup A, Cuerrier A, Downing A, Lavallée C, Pelletier F, Chambers J, Gagnon AE, Bedard MC, Gendreau Y, Gonzalez A, **Mitchell MGE**, Whiteley J, Larocque A. 2012. *Impacts of Climate Change on the Biodiversity of Quebec: Literature review summary*. CSBQ, MDDEP, Ouranos. Quebec, QC.
1. Whiteley J, **Mitchell MGE**, Larocque A, Gonzalez A. 2011. *Impacts des changements climatiques sur les corridors et les services écosystémiques*. Report for OURANOS and MDDEP. Quebec Centre for Biodiversity Science. Montreal, QC.

Other Publications & Reports

7. **Mitchell MGE**. 2021. How to meet the ambitious target of conserving 30 per cent of Earth by 2030. The Conversation. <https://theconversation.com/how-to-meet-the-ambitious-target-of-conserving-30-per-cent-of-earth-by-2030-154987>
6. **Mitchell MGE**, Bullen C. 2020. *Ecosystem services assessment for British Columbia's Interior Temperate Rainforest, Upper Columbia Region, and Southern Mountain Caribou Populations*. Scientific report prepared for the Yellowstone-to-Yukon Conservation Initiative. 68 pages.
5. **Mitchell MGE**. 2019. *Ecosystem service provision in the Canadian Yellowstone-to-Yukon Region*. Scientific report prepared for the Yellowstone-to-Yukon Conservation Initiative. 89 pages.
4. Ziter C, **Mitchell MGE**, Bardekjian A, Conway T, Danyluk A, Molnar M, Pachcinski M, Podur J, Schaefer V, Clark J, Murphy S. 2018. Connecting urban planners and urban ecologists to create sustainable Canadian cities. *Nature of Cities*. www.thenatureofcities.com.
3. **Mitchell, MGE**. 2016. Understanding the effects of landscape structure on human well-being. *Conservation Corridor Magazine*. www.conservationcorridor.org.
2. **Mitchell MGE**. 2016. Connecting landscape fragmentation with human wellbeing. *Decision Point Magazine* 94: 10-11. Environmental Decisions Group.
1. **Mitchell MGE**, et al. 2015. Postdocs reimagined (Edited by J Sills). *Science* 349(6243): 24-27. (Contributed one of 23 short letters on the future of the postdoctoral position)

SCHOLARSHIPS & AWARDS (24 awards & ~\$250K total)

2016–2018	NSERC Postdoctoral Fellowship (\$90,000)
2011	McGill University Graduate Excellence Fellowship (\$4,325)
2010–2012	Quebec Centre for Biodiversity Science Awards (\$500, \$1,425 & \$1,696)
2010	Quebec Centre for Biodiversity Science Seed Grant (\$5,000)
2009–2011	NSERC Ph.D. Postgraduate Scholarship (PGS-D) (\$42,000)
2009	McGill University Provost’s Grad Student Fellowship (\$5,000)
2009, 2010	McGill University Principal’s Grad Student Fellowships (\$2,500 & \$1,000)
2005	Alberta Advanced Education Graduate Student Scholarship (\$2,000)
2004, 2005	Northern Scientific Training Program Research Grants (\$3,150 & \$1,850)
2004–2006	Alberta Ingenuity Graduate Scholarship (\$40,000)
2003, 2004	University of Alberta Walter H. Johns Scholarships (\$4,600 each)
2003	University of Alberta Entrance Scholarship (\$2,000)
2003–2005	NSERC M.Sc. Postgraduate Scholarship (PGS-A) (\$34,600)
2002	University of Victoria Dean’s List (no monetary value)

GRANTS & FUNDING

2021	Environment and Climate Change Canada, Bat Abundance and Diversity Across the Urban and Agricultural Landscapes of Southwest BC, Grants & Contributions Program \$160,000 (3 years, PI)
2021	UBC Centre for Teaching and Learning Technology Hybrid Teaching Grant \$16,000 (1 year, Co-Applicant)
2020	MITACS Graduate Student Internship \$6,000 (1 year, PI)
2019	A Living Laboratory for Biodiversity Monitoring at the UBC Farm, UBC Campus as a Living Laboratory Fund, \$53,105 (2 years, co-PI)
2013	Montreal’s Ecosystems at your Service Science Communication Project, McGill University Sustainability Initiative, \$31,130 (1 year, co-PI)

INVITED SEMINARS & PRESENTATIONS

2021	Canadian Society of Environmental Biologists, Virtual Presentation.
2021	Wildsight Conservation Organization, Virtual Presentation.
2021	Canadian Parks Collective for Innovation and Leadership, Virtual Presentation.
2021	Canadian Wildlife Service Internal Seminar Series, Virtual Presentation.
2021	Environment and Climate Change Canada – Pathway to Canada Target 1 Steering Committee, Virtual Presentation.
2019	Biodiversity Research Center, University of British Columbia, Vancouver, Canada.
2018	Institute for Resources, Environment and Sustainability, University of British Columbia, Vancouver, Canada.
2018	Kellogg Biological Station, Michigan State University, Hickory Corners, U.S.A.
2018	Centre for Global Change & Earth Observation, Michigan State University, East Lansing, U.S.A.
2017	Dept. of Biological Sciences, University of Toronto Scarborough, Toronto, Canada.
2012	l’Association des Biologistes du Québec, Boucherville, Canada.

CONFERENCE PRESENTATIONS & POSTERS

2019	Ecosystem Services Partnership World Conference, Hannover, Germany [2 <i>Presentations</i>]
2019	US International Association for Landscape Ecology, Fort Collins, USA [<i>Presentation</i>]
2017	Ecological Society of America, Portland, USA [<i>Presentation</i>]
2017	Canadian Society for Ecology and Evolution, Victoria, Canada [<i>Presentation</i>]

- 2015 International Association of Landscape Ecology, Portland, USA [*Presentation*]
- 2014 Ecological Society of Australia, Alice Springs, Australia [*Presentation*]
- 2013 Quebec Centre for Biodiversity Science, Montreal, Canada [*Presentation*]
- 2013 Ecological Society of America, Minneapolis, USA [*Presentation*]
- 2012 International EcoSummit, Columbus, USA [*Presentation*]
- 2012 Ecological Society of America, Portland, USA [*Presentation*]
- 2011 l'Association des Biologistes du Québec, Boucherville, Canada [*Poster*]
- 2011 Quebec Centre for Biodiversity Science, Montreal, Canada [*Presentation*]
- 2011 Canadian Society for Ecology and Evolution, Banff, Canada [*Presentation*]
- 2010 Quebec Centre for Biodiversity Science, Montreal, Canada [*Presentation*]
- 2009 McGill Symposium on Environmental Research, Montreal, Canada [*Poster*]
- 2005 Ecological Society of America, Montreal, Canada [*Presentation*]
- 2005 International Arctic Workshop, Edmonton, Canada [*Poster*]
- 2005 Plant Canada, Edmonton, Canada [*Presentation*]

TEACHING EXPERIENCE & TRAINING

Course Instruction

- 2020 & 2021 LFS 250 – Land, Food and Community I, University of British Columbia (lead instructor)
- 2019 LFS 250 – Land, Food and Community I, University of British Columbia (co-instructor)
- 2019 SCIE 113 – First-year Seminar in Science, University of British Columbia (instructor)

Teaching Awards

- 2020 UBC Leader in Open Learning

Instructional Training Completed

- 2020 UBC Instructional Skills Workshop
- 2020 UBC Teaching Development Program for New Faculty

Teaching Assistantships

- 2013 ENVB 410 – Ecosystem Ecology, McGill University
- 2005 BIOL 433 – Plant-Animal Interactions, University of Alberta
- 2002 BIOL 324 – Higher Plants, University of Victoria
- 2002 BIOL 418 – Plant Ecology, University of Victoria

Guest Lectures

University of British Columbia

- 2019 APBI 490 – Conservation Agriculture and Biodiversity Monitoring
- 2019 & 2020 UFOR 495 – Biodiversity in Urban Areas
- 2019 – 2021 UFOR 101/220 – Urban Forest Inventory & Assessment
- 2019 RMES 510 – Social-Ecological Systems
- 2016 & 2020 RMES 508 – Ecosystem Services
- 2016 APBI 260 – Agroecology I

University of Queensland

- 2015 Ecology Tutor – Emmanuel College
- 2015 CONS 3017/6017 – Landscape Ecology
- 2014 BLDG 210 – Architectural Technology

McGill University

- 2013 BIOL 215 – Introduction to Ecology & Evolution
- 2012 ENVB 301 – Environmental Research Design

2011 ENVB 305 – Population & Community Ecology

STUDENT SUPERVISION

PhD Students

- 2015–2019 Marie Dade. PhD, University of Queensland. *Managing multiple ecosystem services*. (co-supervised with Jonathan Rhodes)
- 2014–2018 Andrés Felipe Suarez-Castro. PhD, University of Queensland. *Assessing the effects of landscape structure on species and functional diversity*. (co-supervised with Jonathan Rhodes)

MSc Students

- 2021–Present Daniel Forrest, MSc, University of British Columbia. (co-supervised with Kai Chan)

Honours Students

- 2014 Rhiannon Caynes. Honours, University of Queensland. (co-supervised with Jonathan Rhodes)
- 2013 Emery Hartley. Honours, McGill University. (co-supervised with Elena Bennett)

Undergraduate Students

- 2021 Zohreh Rezaie Manesh, Robin Glover (UBC WorkLearn students)
- 2021 Thomas Howey (Directed Studies)
- 2020–2021 Emma Yates (LFS 496 intern & Directed Studies – co-supervised with Sean Smukler)
- 2020–2021 Zohreh Rezaie Manesh (UBC WorkLearn student)
- 2020 Leilani Pulsifer (Directed Studies – co-supervised with Kristen Walker)
- 2020 Christie Crews (Directed Studies – co-supervised with Kristen Walker)
- 2020 Thomas Howey (UBC WorkLearn student)
- 2020 Tamara Dolotova (Directed Studies – co-supervised with Kristen Walker)
- 2020 Graham Matheson (Directed Studies & WorkLearn – co-supervised with Kristen Walker)
- 2019–2020 Laura Super (UBC WorkLearn student & Mitacs Graduate Student Intern)
- 2019 Angela Liu (UBC Farm Biodiversity Monitoring Intern)
- 2018–2019 Katelyn Hengel (UBC WorkLearn student & Directed Studies)
- 2018 Francis Durnin-Vermette (LFS 496 Intern)
- 2017 Natalie Westwood (BRITE – Biodiversity Research: Training and Education Intern)
- 2016 Evelyn Chen (NSERC USRA – co-supervised with Kai Chan)
- 2012 Emily Pedersen (Independent Studies – co-supervised with Elena Bennett)

Visiting Students

- 2017–2018 Martin Schmidt (PhD). Leibniz Centre for Agricultural Landscape Research, Germany.
- 2017 Gabriela Duarte (PhD). Universidade Federal de Minas Gerais, Brazil (co-hosted with Kai Chan)

Graduate/Honours Student Examinations

- 2021 Diego Bengochea Paz (PhD Thesis Examiner, Université de Toulouse)
- 2018 Alysia Bixler (MSFM Final Essay Examiner, University of British Columbia)
- 2015 Sameer Punde (PhD Mid-term Review Examiner, University of Queensland)
- 2015 Stephen Kearney (Honours Thesis Reviewer, University of Queensland)

NON-ACADEMIC PROFESSIONAL EMPLOYMENT

- 2008–2010 Ecologist, Matrix Solutions Incorporated, Calgary, Canada
- 2006–2008 Ecologist, WorleyParsons Limited, Calgary, Canada

EXTERNAL SERVICE & INTERNATIONAL COLLABORATIONS

Grant Proposal Review

2018 External reviewer for sDiv (synthesis centre of German iDiv Center)

Journal Article Peer Review

61 manuscript reviews, including for: Agricultural Systems • Agriculture, Ecosystems & Environment • Conservation Biology • Current Landscape Ecology Reports • Ecography • Ecological Applications • Ecological Economics • Ecology Letters • Ecology and Society • Ecosphere • Ecosystems • Ecosystems and People • Environmental Monitoring and Assessment • Environmental Research Letters • FACETS • Frontiers in Ecology and the Environment • Invasive Plant Science & Management • Journal of Applied Ecology • Land • Landscape Ecology • Landscape and Urban Planning • PeerJ • PLoS One • Proceedings of the Royal Society B: Biological Sciences • Science Advances • Sustainability. Reviewer profile at:

<https://publons.com/author/460016/matthew-g-e-mitchell#stats>

Working Group Participation and Symposia Organization

2021 Scientific Steering Committee Member, "Agri-TE: Evidence-based synthesis of the impacts of agro-ecological transition at the global scale to support integrated modelling and decision-making," Fondation Pour La Recherche Sur La Biodiversité Synthesis Project.

2021 Lead organizer, "*Biodiversity science towards reconciliation*," BRC Research Cluster Workshop.

2021 Lead organizer, "*Using R for spatial analysis and GIS*," BRC Research Cluster Workshop.

2019–2020 Participant, BIOSHARE Working Group on Ecosystem Services and Biosphere Reserves, Leipzig, Germany.

2019–2020 Co-organizer, "*From half earth to whole earth – working landscapes and biodiversity conservation*," UBC Biodiversity Research Centre Research Cluster, Vancouver, Canada.

2018–2020 Lead organizer, "*Systematizing the links between food security and biodiversity through citizen science*," International Roundtable, Peter Wall Institute for Advanced Studies, Vancouver, Canada.

2017–present Participant, UBC Diversified Agroecosystem Research Cluster, Vancouver, Canada.

2017–2018 Participant, sLandServe iDiv Working Group, Leipzig, Germany.

2017 Symposium Organizer, "*Understanding the relationships between biodiversity and ecosystem service supply, demand, and provision*," Ecological Society of America Meeting, Portland, USA.

2017 Symposium Organizer, "*Accelerating urban ecology in Canada: Identifying current research approaches, gaps, and needs in Canadian cities*," Canadian Society for Ecology & Evolution, Victoria, Canada.

2016–2017 Participant, Natural Capital Project Ecosystem Services Working Group, Stanford, USA.

UNIVERSITY & DEPARTMENTAL SERVICE

2017–present Biodiversity Steering Committee Member, University of British Columbia

2017–2018 IRES Departmental Postdoctoral Representative, University of British Columbia

2014–2016 Landscape Ecology and Conservation Seminar Organizer, University of Queensland

2012 QCBS Conference Organizing Committee, McGill University

2009–2010 Subcommittee on the Environment, McGill University

2009–2010 PGSS Environment Committee, McGill University

LEADERSHIP, SCIENCE COMMUNICATION & OUTREACH

2014–2015 CEED Environmental Leadership Training Program, University of Queensland, Brisbane, Australia

2015, 2016 Brisbane City Council Lectures, Brisbane, Australia

2014 Public Lecture, Brisbane City Council Biodiversity Seminar, Brisbane, Australia

- 2013 Co-lead, Montreal's Ecosystems at Your Service Science Outreach Project, McGill University, Montreal, Canada
- 2013 Liber Ero Science Communication and Policy Engagement Workshop, McGill University, Montreal, Canada
- 2012, 2013 Public Lectures, Mont Saint Hilaire Research Station Curieux de Nature lecture series, Mont Saint Hilaire, Canada

MEDIA & NEWS COVERAGE

- 2021 "With planet's future on the line, scientists seek a full accounting of nature's assets" *The Globe and Mail*. [Print] Available at: <https://www.theglobeandmail.com/canada/article-with-planets-future-on-the-line-scientists-seek-a-full-accounting-of/>
- 2021 "Episode 2: Mapping ecosystem services for conservation planning in Canada with Matt Mitchell & Aerin Jacob" *Emerging Environments*. [Podcast]. Available at: <https://www.emergingenvironments.com/episodes>
- 2021 "Canada committed to protecting 30% of our territory by 2030. Which 30% should it be?" *CBC Quirks & Quarks*. [Radio & Print] Available at: <https://www.cbc.ca/radio/quirks/jan-16-snake-lasso-climbing-seeing-gravitational-waves-with-pulsars-soil-compaction-and-more-1.5873142/canada-committed-to-protecting-30-of-our-territory-by-2030-which-30-should-it-be-1.5873148?fbclid>
- 2021 "Are Canada's natural attractions at risk?" CTV News. [Video] Available at: <https://www.ctvnews.ca/video?clipId=2119968&jwsourc=lnk>
- 2021 "The Almanacs – Podcast" *CSJW Radio*. [Radio] Available at: <https://cjsw.com/program/the-almanacs/podcast/20210218-1/>
- 2021 "Natural areas seek protection" *CBC Radio Edmonton*. [Radio] Available at: <https://www.cbc.ca/listen/live-radio/1-17-edmonton-am/clip/15817398-natural-areas-seek-protection>
- 2021 "Montreal Let's Go – Science Column with Rackeb Tesfaye" *CBC Radio Montreal*. [Radio] Available at: <https://www.cbc.ca/listen/live-radio/1-383-lets-go/clip/15818496-science-column-rackeb-tesfaye-part-1>
- 2021 "Canada is committed to protecting natural areas. But is it protecting the right ones?" *CBC News*. [Print] Available at: <https://www.cbc.ca/news/canada/edmonton/canada-is-committed-to-protecting-natural-areas-but-is-it-protecting-the-right-ones-1.5866417>
- 2021 "Canada's ecosystem hotspots: Rockies, Hudson Bay among areas flagged for protection." *The Narwhal*. [Print] Available at: <https://thenarwhal.ca/canada-protected-areas-conservation-maps-2021/>
- 2021 "Canada's protected areas aren't necessarily where they're most needed: Study." *Radio Canada International*. [Print] Available at: <https://www.rcinet.ca/en/2021/01/06/canadas-protected-areas-arent-necessarily-where-theyre-most-needed-study/>
- 2021 "Protected areas may not safeguard all that Canadians need them to, research suggests." *Globe & Mail*, *CTV News*, *National Observer*, and *Canadian Press*. [Print] Available at: <https://www.theglobeandmail.com/canada/article-protected-areas-may-not-safeguard-all-that-canadians-need-them-to-2/>
- 2021 "Key ecosystem service locations in Canada identified." *Dispatches in Frontiers in Ecology and the Environment*. [Print] Available at: <https://esajournals.onlinelibrary.wiley.com/doi/10.1002/fec.2315>
- 2021 "Ecosystem services: Determining the full value of the land." *Science Borealis*. [Print] Available at: <https://blog.scienceborealis.ca/ecosystem-services-determining-the-full-value-of-the-land/>
- 2017 "Studying the whole ecosystem" 2017. *Grainews*. [Print] Available at: www.grainews.ca/2017/02/15/research-looks-at-how-soybeans-are-affected-by-nearby-forests/

OTHER ACADEMIC SKILLS & RESEARCH TRAINING

2015	CEED Conservation Messaging Workshop, University of Queensland
2014	SESYNC Social Media Workshop, University of Maryland
2013	QCBS Introduction to Geostatistics with R workshop, McGill University
2013	QCBS Null Models in Ecology workshop, McGill University
2012	QCBS Open Source GIS workshop, McGill University
2012	QCBS Database Management with MySQL workshop, McGill University
2009	Introduction to GIS course, Centre for Forest Research
2010	Ordination Techniques in R course, Centre for Forest Research
2007	Vegetation Resources Inventory (VRI) certification, BC Ministry of Forests

LANGUAGES

English – fluent: speaking, reading, and writing

French – intermediate: speaking, reading, and writing

ACADEMIC SOCIETIES

Ecological Society of America • Canadian Society for Ecology and Evolution • International Association for Landscape Ecology • Ecosystem Services Partnership

REFERENCES

Professor Kai Chan
Institute for Resources, Environment and Sustainability
University of British Columbia
Vancouver, British Columbia, Canada V6T 1Z4
email: kaichan@ires.ubc.ca, tel: +1.604.822.0400

Professor Elena Bennett
Department of Natural Resource Sciences & School of Environment
McGill University
Sainte-Anne-de-Bellevue, Quebec, Canada H9X 3V9
email: elena.bennett@mcgill.ca, tel: +1.514.398.7563

Professor Jonathan Rhodes
School of Earth and Environmental Sciences
The University of Queensland
St. Lucia, Queensland, Australia 4072
email: j.rhodes@uq.edu.au, tel: +61.7.336.56838