Marie-Hélène Brice

Phd candidate in ecology Master in ecology

★ 10392 Jeanne-Mance	Scientific skills	Technical skills
H3L 3C1 Montréal Qc, Canada	Plant ecology	■■■■ R
5 14-318-8945	Community ecology Landscape ecology	■■■□ Markdown ■■□□□ HTML/CSS
marie-helene.brice@umontreal.ca	Urban ecology	■■□□ Inkscape
• mhBrice	Functional ecology Multivariate statistics	■■■□□ ArcGIS ■■■■■ Microsoft Office
OrcID 0000-0001-9505-1860	Spatial statistics	

Education

2016– Phd Thesis. Université de Montréal, University of Toronto.

Spatio-temporal response of trees in the boreal-temperate ecotone in the face of climate change.

Advisors: Pierre Legendre & Marie-Josée Fortin

Cumulative mean 4.3/4.3

2013–2015 **Master Thesis.** Université de Montréal, Institut de recherche en biologie végétale & Université Laval

Impacts de l'urbanisation sur la diversité spécifique et fonctionnelle dans les forêts riveraines.

Advisors: Stéphanie Pellerin & Monique Poulin Mention of excellence. Cumulative mean 4.3/4.3

2010–2013 Honors' bachelor degree in Biology. Ecology, biodiversity & evolution. Université de Montréal

Honor project: Distribution et diversité des espèces lianescentes dans les écosystèmes urbains.

Advisors: Stéphanie Pellerin

Mention of excellence. Cumulative mean 4.27/4.3

Grants & scholarships

2018	Excellence awards - Faculté des études supérieures et postdoctorales, Université de Montréal
2017	Excellence awards - Faculté des études supérieures et postdoctorales, Université de Montréal
2016	Excellence awards - Quebec Centre for Biodiversity Science (QCBS)
2016	Excellence awards - Faculté des études supérieures et postdoctorales, Université de Montréal
2015–2018	Postgraduate Scholarships for doctoral research - NSERC
2014–2015	Master's research scholarships - Fonds de Recherche du Québec Nature et Technologies (FRQNT)
2013–2014	Alexander Graham Bell Canada Graduate Scholarships for master's research - NSERC
2013	Dean excellence awards
2013	Undergraduate Student Research Awards - NSERC
2012	Undergraduate Student Research Awards - NSERC
2011	Undergraduate Student Research Awards - NSERC
2010	Entrance scholarship - Université de Montréal

★ Honors & Awards

2018	Best Presentation Award - Symposium de biologie, Université de Montréal
2017	Governor General's Academic Medal
2017	Best Presentation Award - Symposium de biologie, Université de Montréal

Best Presentation Award - Symposium de biologie, Université de Montréal

☑ Papers published in peer-reviewed journal

- Delmas E., Besson M., Brice M., Burkle L., Dalla Riva G., Fortin M., Gravel D., Guimarães P., Hembry D., Newman E., Olesen J., Pires M., Yeakel J., Poisot T., 2018. Analysing ecological networks of species interactions: Analyzing ecological networks. *Biological Reviews*. http://doi.wiley.com/10.1111/brv.12433
- Brice M., Pellerin S., Poulin M., 2017. Does urbanization lead to taxonomic and functional homogenization in riparian forests?. *Diversity and Distributions* 23(7):828-840. http://doi.wiley.com/10.1111/ddi.12565
- Brice M., Pellerin S., Poulin M., 2016. Environmental filtering and spatial processes in urban riparian forests. *Journal of Vegetation Science* 27(5):1023-1035. http://doi.wiley.com/10.1111/jvs.12425
- Brice M., Bergeron A., Pellerin S., 2014. Liana distribution in response to urbanization in temperate forests. Écoscience 21(2):104-113. https://www.tandfonline.com/doi/full/10.2980/21-2-3692

C In Preparation

- 1. Deschenes E., **Brice M**., Brisson J., 2018. What factors influence tree mortality in an old growth mixed deciduous forest?. *in prep*.
- 2. Kirk D., **Brice M**., Bradstreet M., 2018. Beta diversity changes in a Remnant Carolinian Forest: Evidence for Biotic Homogenization. *in prep*.
- 3. **Brice M**., Cazelles K., Legendre P., Fortin M., 2018. Drivers of forest community changes in the boreal-temperate ecotone. *in prep*.

Thesis & Reports

- 1. **Brice M**., 2018. Tendances temporelles dans les populations de Ginseng à cinq folioles (Panax quinquefolius) de la Montérégie. Report for Nature Action Québec.
- Brice M., 2015. Impacts de l'urbanisation sur la diversité spécifique et fonctionnelle dans les forêts riveraines. Master thesis. Université de Montréal. https://papyrus.bib.umontreal.ca/xmlui/handle/1866/13639
- 3. **Brice M**., 2015. Comparaison de la biodiversité des plantes vasculaires des tourbières entre des régions laurentienne et boréale du Québec et le long d'un gradient bordure-centre. Undergraduate thesis. Université de Montréal.

- 1. **Brice M**., Legendre P., Fortin M., 2018. Dynamique de transition des communautés forestières dans l'écotone boréal-tempéré. Journée Modèle Québec Ministère Forêts, Faune et Parcs. Québec, Qc.
- 2. **Brice M**., Cazelles K., Legendre P., Fortin M., 2018. Long-term forest community changes in the boreal-temperate ecotone. ESA Annual Meeting. New-Orleans, LA.

- Brice M., Legendre P., Fortin M., 2018. Changements dans les communautés forestières du Québec méridional au cours des 4 dernières décennies. Invited speaker at Flora Quebeca Meeting. Saint-Augustin-de-Desmaures, Qc.
- Brice M., Legendre P., Fortin M., 2018. Dynamique de transition des communautés forestières dans l'écotone boréal-tempéré. Symposium du Département de sciences biologiques de l'Université de Montréal. Montréal, Qc.
- 5. **Brice M**., Legendre P., Fortin M., 2017. Tendances démographiques dans la forêt tempérée nordique. Congrès international francophone en écologie végétale (ECOVEG13). Forêt Montmorency, Qc.
- 6. **Brice M**., Pellerin S., Poulin M., 2016. Is urbanization driving riparian forests toward taxonomic and functional homogenization?. Annual symposium of Quebec Center for Biodiversity Science (QCBS). Montréal, Qc.
- 7. **Brice M**., Pellerin S., Poulin M., 2015. Disentangling environmental filtering and spatial processes structuring plant functional communities in urban riparian forests. ESA Annual Meeting. Baltimore, MD.
- 8. **Brice M**., Pellerin S., Poulin M., 2015. Impact de l'urbanisation sur la distribution de la diversité spécifique et fonctionnelle dans les forêts riveraines. Master exit seminar. Institut de Recherche en Biologie Végétale, Montréal, Qc.
- Brice M., Pellerin S., Poulin M., 2014. The role of land use, flood variability and spatial processes in structuring functional plant communities in urban riparian forests. Annual symposium of Quebec Center for Biodiversity Science (QCBS). Montréal, Qc.
- 10. **Brice M**., Bergeron A., Pellerin S., 2014. Climbing towards the light: Liana distribution and diversity in urban ecosystems. Partnerships for the Living City: Promoting Urban Biodiversity A Partnership with the Secretariat of the Convention on Biological Diversity. Montréal, Qc.
- 11. **Brice M**., Bergeron A., Pellerin S., 2013. Impact de l'urbanisation sur la distribution des espèces lianescentes. Symposium du Département de sciences biologiques de l'Université de Montréal. Montréal, Qc.

Working experience

2017– **R workshop coordinator**, Quebec Center for Biodiversity Science (QCBS)

Organize annual R symposium and R workshops for students from different universities in Quebec, revamping materials.

2018 Consultant in biostatistic and ecology, Nature Action Québec

Analyze population trends of a rare plant (Panax quinquefolius) in Montérégie.

2017–2018 **Research asistant in biostatistic and ecology**, Institut de recherche en biologie végétale *Perform various biodiversity analysis.*

Consultant in plant ecology, Institut national de la recherche scientifique (INRS)

Work on plant functional groups for a study on environmental equity.

2013–2014 **Administrative associate**, Société Québécoise de Phytotechnologie

2011–2013 **Research asistant**, Institut de recherche en biologie végétale

Lab and field work in plant ecology.

m Teaching

2014

2018 Advanced R course on geospatial analysis and map editing. Instructor

Quebec Center for Biodiversity Science (QCBS) (0.5 day)

2016–2018 **Forest ecology course.** Teaching assistant

Université de Montréal (1 semester/year)

2015–2017	Biostatistic 2. Teaching assistant Université de Montréal (1 semester/year)
2015–2017	Multivariate analysis and Advance multivariate analysis. R workshop presenter Université de Montréal & Université du Québec à Montréal. Quebec Center for Biodiversity Science (QCBS) (6h/year)
2014	Biostatistic 1. Teaching assistant Université de Montréal (1 semester/year)
2013–2014	Plant ecology course. Teaching assistant Université de Montréal (1 semester/year)
	Community involvement
2017	Organizing committee of the Congrès international d'écologie végétale, ECOVEG13.
2016–2017	Scout leader for a group of 12-15 year-old girls.
2016–2017	Organizing committee of Symposium de biologie de l'Université de Montréal.