

Jean-Michel Matte, PhD

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Education

2015-2020	Doctor of Philosophy, Biology – Concordia University Supervisors: Dr. James W.A. Grant and Dr. Dylan J. Fraser <i>Cause and consequences of density dependence in salmonids</i>
2011-2014	B.Sc in Biology – Université de Montréal Biodiversity, Ecology and Evolution – 3.93 GPA
Other formations	R programming, ArcGIS Backpack Electrofishing Class 2 General first aid, including CPR level C and AED Pleasure craft operator license Driver's license class 5 MED A3 - Small non-pleasure vessel basic safety Biological and Chemical Risks in Laboratory Training

Awards

2020	Accelerator Award – Concordia University
2019	Excellence Award – Quebec Center for Biodiversity Science (QCBS)
2019	Clemens-Rigler Award – Canadian Conference for Fisheries Research (CCFFR)
Summer 2017	Graduate Student Mobility Award – Concordia University
Summer 2016	Graduate Student Mobility Award – Concordia University
2015 - 2017	Graduate Fellowship – Concordia University
2015 - 2018	Golden Key International Honour Society – <i>Declined</i>
Summer 2014	Biodiversity Science Discovery Award – Quebec Center for Biodiversity Science (QCBS)
Summer 2014	NSERC Undergraduate Student Research Award – McGill University (Dr. Ricciardi)

Administrative & Teaching experience

2020	Teaching assistant – Population dynamics – 1 Semester – Concordia University
2018 - 2019	Teaching assistant – Advanced Biostatistics (Graduate) – 2 Semesters – Concordia University
2016 - Present	Representative for the Canadian Society of Ecology and Evolution – Concordia University
2016 - 2017	Vice-president of the Biology Graduate Student Association (Finance) – Concordia University
Winter 2017	Academic Search Committee Graduate Representative – Concordia University
Fall 2016	Teaching assistant – Techniques in Ecology – 1 Semester – Concordia University
2015 - 2017	Biology Graduate Student Association Mentor – Concordia University
2015 - 2020	Teaching assistant – Introduction to Biostatistics – 7 Semesters – Concordia University

Research experience

2015-2017	Concordia University and U.S. Fish and Wildlife Service Field volunteer
Summer 2015	Groupe de Recherche Interuniversitaire en Limnologie et en environnements aquatiques (GRIL) Research assistant – Intensive large-scale aquatic survey (Projet Fleuve-Herbier)
Summer 2015	Dr. James Grant – Concordia University Research assistant – Behavioral ecology of salmonids and habitat surveys
Summer 2015	Dr. Marc Amyot – Université de Montréal Field and laboratory technician – Aquatic ecotoxicology
2014 - 2015	Dr. Pierre Brunel – Université de Montréal Research internship - Taxonomy and geolocation of Pycnogonids (Pycnogonidae - Sea spiders)
Summer & Fall 2014	Dr. Colin Favret – Université de Montréal Research internship - Interactions between aphids, their host plants, and mycorrhizae
Summer 2014	Dr. Anthony Ricciardi – McGill University Research assistant (NSERC USRA) – Aquatic invasive species
Fall 2013	Dr. Daniel Boisclair – Université de Montréal Research internship – Associations of Northern pike with forage fish and competitors
2012-2013	Dr. Daniel Boisclair – Université de Montréal Research assistant – Fish ecology and habitat productivity of a reservoir

Publications

6. Eisenhower, Z., Christman, P.M., **Matte, J.-M.**, Ardren, W.R., Fraser, D.J., & Grant, J.W. (2020). Revisiting the restricted movement paradigm: the dispersal of Atlantic salmon fry from artificial redds. *Canadian Journal of Fisheries and Aquatic Sciences*. Accepted.
5. Woo-Durand, C., **Matte, J.-M.**, Cuddihy, G., McGourdji, C.I., Venter, O., & Grant, J.W. (2020). Climate Change and Other Threats to Endangered Wildlife in Canada. *Environmental Reviews*. In Press. doi: 10.1139/er-2020-0032
4. **Matte, J.-M.**, Fraser, D.J., & Grant, J.W. (2020). Density-dependent growth and survival in salmonids: quantifying biological mechanisms and methodological biases. *Fish and Fisheries*. doi: 10.1111/faf.12448
3. **Matte, J.-M.**, Fraser, D. J., & Grant, J. W. (2020). Population variation in density-dependent growth, mortality and their trade-off in a stream fish. *Journal of Animal Ecology*. doi:10.1111/1365-2656.13124
2. Derry, A.M., Fraser, D.J., Brady, S.P, Astorg, L., Lawrence, E.R., Martin, G.K., **Matte, J.-M.**, Negrin Dastis, J.O.N., Paccard, A., Barrett, R.D.H., Chapman, L.J., Lane, J.E., Ballas, C., Close, M., & Crispo, E. (2019). Conservation through the lens of (mal)adaptation: a conceptual framework and meta-analysis. *Evolutionary Applications*, 12, 1287– 1304. doi: 10.1111/eva.12791
1. Lawrence, E. R., Benavente, J. N., **Matte, J.-M.**, Marin, K., Wells, Z. R., Bernos, T. A., ... & Fraser, D. J. (2019). Geo-referenced population-specific microsatellite data across American continents, the MacroPopGen Database. *Scientific data*, 6(1), 14.

Publications submitted or *in prep*

Matte, J.-M., Fraser, D.J., & Grant, J.W. (2020). Can food depletion explain divergent patterns of density-dependent growth and mortality in brook trout populations? *Ecosphere*. In Revision.

Demers, E.E.M., **Matte, J.-M.**, & Brown, G.E. (2020). Ecological Uncertainty Delays Learning of Novel Foraging Tasks. *Animal Behaviour*. In prep.

Matte, J.-M., Fraser, D.J., & Grant, J.W. (2020). A quantitative review of density-dependent growth and mortality across animals. *Ecological Monographs*. In prep.

Conference presentations

4. **Matte, J.-M.**, Fraser, D.J., Grant, J.W.A. (2020) A quantitative review of density-dependent growth and survival in salmonids. *Canadian Conference for Fisheries Research (CCFFR)*, Halifax, Canada.
3. **Matte, J.-M.**, Fraser, D.J., Grant, J.W.A. (2020) A quantitative review of density-dependent growth and survival in salmonids. *Quebec Center for Biodiversity Science Symposium*, Montreal, Canada
2. **Matte, J.-M.**, Fraser, D.J., Grant, J.W.A. (2019) Can habitat explain population-level variation in density-dependent growth, mortality, and their trade-off in a stream salmonid? *Advances in the population ecology of stream salmonids – V. International Symposium*, Grenada, Spain.
1. **Matte, J.-M.**, Fraser, D.J., Grant, J.W.A. (2019) Density-dependent growth and mortality in a stream fish: does life history explain divergent patterns among populations? *Canadian Conference for Fisheries Research (CCFFR)*, Ontario, Canada.