

Dr. A. Andrew M. MacDonald

CESAB Synthesis Centre Postdoc aammd.info
Université Paul Sabatier github.com/aammd
Toulouse, France twitter.com/polesasunder
+33 6 29 66 46 52 orcid.org/0000-0003-1162-169X
a.a.m.macdonald@gmail.com

I am passionate about community ecology, data analysis, and open science. I am currently a postdoc with the Centre de synthèse et d'analyse sur la biodiversité (CESAB), based in Toulouse, France. My project synthesizes data from multiple scientists, using a large SQL database, reproducible workflows, and custom-made R packages. Our goal is to understand how functional traits of organisms determine how food webs respond to environmental gradients.

Education

2017 **Ph.D.**, Zoology
University of British Columbia, Vancouver

2009 **Botany**, M. Sc.
University of Toronto, Toronto

2006 **Biology (honours)**, B. Sc.
Cape Breton University, Sydney

Teaching

2016 & 2017 **BIOL5480 “Dealing with Data” (Graduate module)**
University of British Columbia, Vancouver

2014 & 2015 **STAT545 teaching assistant**
University of British Columbia, Vancouver

2015 **Software Carpentry workshop (x2)**
University of British Columbia, Vancouver

2016 **Software Carpentry workshop**
Centre National des Recherches Scientifiques, Paris

2015 **Statistics for biologists**
Universidade Federale do Rio de Janeiro, Rio de Janeiro

Publications

2017 ENVIRONMENTAL CONTROL OF THE MICROFAUNAL COMMUNITY STRUCTURE IN TROPICAL BROMELIADS

- P Kratina, JS Petermann, NAC Marino, **AAM MacDonald**, DS Srivastava*
Ecology and Evolution, 7 (5): 1627-1634
- 2017 RAINFALL AND HYDROLOGICAL STABILITY ALTER THE IMPACT OF TOP PREDATORS ON FOOD WEB
STRUCTURE AND FUNCTION
*Nicholas AC Marino, Diane S Srivastava, **A Andrew M MacDonald**, Juliana S Leal, Alice Campos,
Vinicius F Farjalla*
Global change biology, 23 (2): 673-685
- 2016 CODYN AN R PACKAGE OF COMMUNITY DYNAMICS METRICS
*Lauren M Hallett, Sydney K Jones, **A Andrew M MacDonald**, Matthew B Jones, Dan FB Flynn, Julie
Ripplinger, Peter Slaughter, Corinna Gries, Scott L Collins*
Methods in Ecology and Evolution, 7 (10): 1146-1151
- 2014 ASSESSING THE RELATIVE IMPORTANCE OF NEUTRAL STOCHASTICITY IN ECOLOGICAL COMMUNI-
TIES
*Mark Vellend, Diane S Srivastava, Kathryn M Anderson, Carissa D Brown, Jill E Jankowski, Elizabeth
J Kleynhans, Nathan JB Kraft, Alatheia D Letaw, **A Andrew M MacDonald**, Janet E Maclean, Isla
H Myers-Smith, Andrea R Norris, Xinxin Xue*
Oikos, 123 (12): 1420-1430
- 2012 PHYLOGENETIC DIVERSITY AND THE FUNCTIONING OF ECOSYSTEMS
*Diane S Srivastava, Marc W Cadotte, **A Andrew M MacDonald**, Robin G Marushia, Nicholas
Mirotnick*
Ecology Letters, 15 (7): 637-648
- 2010 THE EFFECTS OF DISTURBANCE AND ENEMY EXCLUSION ON PERFORMANCE OF AN INVASIVE SPECIES,
COMMON RAGWEED, IN ITS NATIVE RANGE
***A Andrew M MacDonald**, Peter M Kotanen*
Oecologia, 162 (4): 977-986
- 2010 LEAF DAMAGE HAS WEAK EFFECTS ON GROWTH AND FECUNDITY OF COMMON RAGWEED (AMBROSIA
ARTEMISIIFOLIA)
***A Andrew M MacDonald**, Peter M Kotanen*
Botany, 88 (2): 158-164
- 2007 HYPERASPIS BRUNNESCENS DOBZHANSKY (COLEOPTERA COCCINELLIDAE) NEWLY RECORDED IN
CANADA FROM SCATARIE ISLAND, NOVA SCOTIA
*C Majka, KR Aikens, **AA MacDonald**, SM Townsend, DB McCorquodale*
Entomological News, 118 (4): 402-406

Languages

English (Writing, Reading, Speaking)
French (Writing, Reading, Speaking)
Portuguese (Reading, Conversational)
Indonesian (Reading, Conversational)