

Max McCarthy

Rutgers University
Graduate Program in Ecology & Evolution
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EDUCATION

Rutgers University, New Brunswick

Ph.D student, Graduate Program in Ecology & Evolution, (2020-present)

GPA: 4.0

Advisor: Rachael Winfree

Relevant coursework: Mathematical and Computational Methods in Theoretical Biology, Population Ecology, Advanced Ecological Data Analysis, Community Dynamics, Molecular Ecology

Tufts University

BS, Biology and Environmental Studies, *Summa cum laude*, (2020)

GPA: 3.85

Relevant coursework: Ecological Statistics and Data, Plant Physiology, Tropical Ecology and Conservation, Organic Chemistry, Biochemistry, Calculus II

GRANTS & FELLOWSHIPS

Garden Club of America Caroline Thorn Kissel Summer Environmental Studies Scholarship - \$3000 - 2022

New England Botanical Society Graduate Student Research Award - \$2,858 - 2022

Ted Stiles Award, EcoGSA, Rutgers University - \$500 - 2021

Small Grants Award, Department of Ecology and Evolution, Rutgers University - \$1,000 - 2021

Presidential Fellowship, Rutgers University Graduate School-New Brunswick - \$75,000 - 2020-present

Dean's Fellowship, Rutgers University Graduate School-New Brunswick - \$25,000 - 2020-present

Benjamin G. Brown Scholarship - \$1,750 - 2020

Barry Goldwater Scholarship - \$7,500 - 2019

Top natural sciences, math, and engineering scholarship available to undergraduates in the United States

Thomas Harrison and Emily Leonard Carmichael Prize Scholarship - \$1,295 - 2019

Nelson Family Summer Scholar Fund - \$5,500 - 2019

Albert N. Votaw Memorial Summer Internship - \$5,500 - 2018

PUBLICATIONS

Bonoan, R, and **M McCarthy**. 2022. Response of a temperate grassland ant community to burning. *Insectes Sociaux*. doi: 10.1007/s00040-022-00851-x

Dorian, N, **M McCarthy**, and E Crone. In preparation for *Journal of Animal Ecology*. Ecological traits predict long-term phenological trends in solitary bees.

PRESENTATIONS

McCarthy, M., N. Dorian, and E. Crone. Phenological trends in wild bees with diverse ecological traits. Oral presentation – Ecological Society of America. Aug. 2-6, 2021

McCarthy, M., N. Dorian, and E. Crone. Phenological change in solitary bees with diverse traits. Poster presentation – Ecological Society of America. Aug. 3-6, 2020

- McCarthy, M.** Phenological trends in wild bees with diverse life history traits. Senior Honors Thesis Defense – Tufts University, Medford, MA; Highest Honors. Apr. 29, 2020
- McCarthy, M.** Phenological trends in wild bees with diverse life history traits. Oral presentation – Tufts Summer Scholars Conference, Tufts University, Medford, MA. Aug. 8, 2019
- McCarthy, M.,** N. Dorian, and E. Crone. Phenological shifts in bees with varying life history traits in the genus *Colletes*. Poster presentation – Northeast Natural History Conference, Springfield, MA; Student Poster Presentation First Place Award. Apr. 13, 2019
- McCarthy, M.** Relationship between floral abundance and pollen collection in two solitary bees. Oral presentation – Tufts REU Symposium, Tufts University, Medford, MA. Aug. 3, 2018

MEDIA

[“To Learn Bees’ Secrets, Count Them One by One”](#). Full-page profile article on my PhD research project, *The New York Times*, Oct 16, 2021

PROFESSIONAL SERVICE & OUTREACH

- Rutgers University 4-H Youth Development Program; pollinator ecology speaker at Rutgers Gardens summer camp field trip (upcoming: July 2022)
- Bee taxon team expert, Northeast Association of Fish and Wildlife Agencies Regional Species of Greatest Conservation Need Taxon Review (2021-2022)
- Rutgers’ Ecology & Evolution Graduate Student Association; treasurer (2021-present)
- [Tufts Pollinator Initiative](#); founding member (March 2019-May 2020)
Student-led group advocating for urban pollinator conservation through community engagement and outreach; 13 current graduate and undergraduate members
- National Audubon Society Christmas Bird count; count sector leader for Andover, Massachusetts (2016-present)

ADDITIONAL SKILLS

- Software: Statistical analysis and modeling using R; population mark-recapture analysis using program MARK; Sequel database management
- Photography: Advanced skills in insect macro photography, general wildlife photography, and editing of digital photographs in Adobe Photoshop
- Field biology: Advanced skills in field identification of hundreds of plant, insect, and bird species and microscopic identification of bee specimens