

JACQUELYN LEE FITZGERALD

Chicago Botanic Garden
Plant Conservation Science Center
1000 Lake Cook Road, Glencoe, IL USA, 60022
jacquelynfitzgerald.com

EDUCATION

- 2019- **PhD Candidate**, Plant Biology and Conservation
Northwestern University, Evanston, IL, USA
Chicago Botanic Garden, Glencoe, IL, USA
Advisor: Dr. Paul J CaraDonna
- 2016 **B.S., Biological Sciences** with Departmental Honors
North Carolina State University, Raleigh, NC, USA
Concentration in Evolution, Ecology, and Conservation

RESEARCH POSITIONS

- 2020- **Principal Investigator**
Rocky Mountain Biological Laboratory
Gothic, CO, USA

PUBLICATIONS

- 2022 **Fitzgerald, J.L.**, J.E. Ogilvie, P.J. CaraDonna. 2022. *Ecological drivers and consequences of bumble bee body size variation under global change*. Environmental Entomology, nvac093.
- 2021 **Fitzgerald, J.L.**, K.L. Stuble, L.M. Nichols, S.E. Diamond, T.R. Wentworth, S.L. Pelini, N.J. Gotelli, N.J. Sanders, R.R. Dunn, CA. Penick. 2021. *Abundance of spring- and winter-active arthropods declines with warming*. Ecosphere, 12, no. 4: e03473.
- 2020 Pinilla-Gallego, M.S., E.E. Williams, A. Davies, **J.L. Fitzgerald**, S. McArt, R.E. Irwin. 2020. *Within-colony transmission of microsporidian and trypanosomatid parasites in honey bee and bumble bee colonies*. Environmental Entomology, 49, no. 6: 1393-1401.
- 2019 Beasley, D.E., **J.L. Fitzgerald**, A. Fowler, K. Keleher, M.M. Lopez-Uribe, S.D. Frank, D.R. Tarpay, R.R. Dunn. *Do Bee Wings Adapt for Flight in Urban Environments?* 2019. Southeastern Naturalist, 18, no. 2:183–191

in prep Godfredsen, E.B., P.J. CaraDonna, A.M. Iler, [et al, including **J.L. Fitzgerald**].
Demographic consequences of phenological shifts. [analysis phase]

GRANTS & FELLOWSHIPS (total = \$155,136)

2022	Lewis and Clark Fund for Exploration and Field Research	\$4,800
	Rocky Mountain Biological Laboratory Graduate Fellowship Hunter Endowment	\$1,200
	Northwestern University Plant Biology and Conservation Research Award	\$750
	Colorado Mountain Club Foundation	\$500
2021	Rocky Mountain Biological Laboratory Graduate Fellowship Snyder Endowment	\$1,500
	Northwestern University Plant Biology and Conservation Research Award	\$1,200
	American Alpine Club Research Grant	\$500
	Northwestern University Data Visualization Contest (1 st place)	\$250
2020	Rocky Mountain Biological Laboratory Graduate Fellowship Hunter Endowment	\$1,200
2019	National Science Foundation Graduate Research Fellowship Award	\$138,000
2015	National Science Foundation / Society for the Study of Evolution Travel Grant	\$2,256
	Atlantic Coast Conference Inter-Institutional Academic Collaborative Fellowship	\$2,980

CONFERENCE PRESENTATIONS

2022	Fitzgerald, J.L. , J.E. Ogilvie, P.J. CaraDonna. <i>Drivers and Consequences of Bumble Bee Body Size Variation</i> . Contributed talk, Ecological Society of America Annual Meeting, Montreal, Canada.
2021	Fitzgerald, J.L. , J.E. Ogilvie, P.J. CaraDonna. <i>Intraspecific body size variation in subalpine bumble bees</i> . Poster, Ecological Society of America Annual Meeting, Virtual.
2016	Fitzgerald, J.L. , M. Lopez-Urbe, D. Beasley, D. Tarpy. <i>Morphometric Wing Analysis of Urban Bees</i> . Contributed talk, Southern Appalachian Honeybee Research Consortium, Clemson, SC, USA.
2015	Fitzgerald, J.L. , T. Wentworth, C. Penick, K. Stuble, R. Dunn. <i>Seasonal Effects of Climate Warming on Forest-Floor Arthropod Communities</i> . Poster, Evolution Annual Meeting, Guarujá, São Paulo, Brazil.
2015	Fitzgerald, J.L. , T. Wentworth, C. Penick, K. Stuble, R. Dunn. <i>Seasonal Effects of Climate Warming on Forest-Floor Arthropod Communities</i> . Contributed talk, Association of Southeastern Biologists Annual Meeting, Chattanooga, TN, USA.
2014	Fitzgerald, J.L. , R. Wong. <i>Visualizing the expression of brain aromatase in Zebrafish: Identifying brain regions associated with estrogenic endocrine disruption</i> . Poster. W. M. Keck Center for Behavioral Biology Student/Postdoc Symposium, Raleigh, NC, USA.

TEACHING

- 2022 Guest Lecture, Critical Topics in Ecology and Conservation (PBC 451), Northwestern University
2022 Guest Lecture, Pollination Ecology (BIOL_SCI 101), Northwestern University
2022 Co-Instructor, Analytical Toolkit for Ecologists (PBC 499), Northwestern University
2020 Graduate Teaching Assistant, Evolutionary Processes (BIO 342), Northwestern University
2016 Junior Teaching Assistant, Ecology (BIO 360), North Carolina State University

PROFESSIONAL SERVICE

- 2022-23 Graduate Student Coordinator, Rocky Mountain Biological Laboratory
2021-23 Graduate Student Representative to the Science Department, Chicago Botanic Garden
2020-21 Graduate Mentor, NSF GRFP workshop, Botanical Society of America
2019- Manuscript reviewer (* = multiple assignments)
Ecology, Global Change Biology, Oecologia, Plant Biology, Ecology Letters, Ecosphere*

SELECT PROFESSIONAL DEVELOPMENT

- 2020 Workshop, *Public Writing Workshop*. Center for Civic Engagement, Northwestern University
2019 Workshop, *Bee diversity and identification in North Carolina*. North Carolina State University
2017 Workshop, *Seeing Science: Improving your visual communication skills*. NCSU Libraries
2017 Workshop, *Storytelling for Science Communication*. Story Collider

SELECT SCIENCE COMMUNICATION & OUTREACH

- 2022 Expert Hike Leader, Wildflower Festival, Crested Butte, CO, USA
2022 Guest Scientist, Education Program, Rocky Mountain Biological Laboratory, Gothic, CO, USA
2018-22 Program on bees and pollination
 1. Amigos International, Gothic, CO, 2022
 2. Citizens Climate Lobby Wildlife Action Team, Virtual, 2022
 3. Crested Butte Land Trust, Rocky Mountain Biological Laboratory, Gothic, CO, 2021
 4. College First, Chicago Botanic Garden, Glencoe, IL, 2020
 5. Appalachian State University Academy at Middle Fork, Walkertown, NC, 2019
 6. Erwin Montessori School, Greensboro, NC, 2018
- 2015-18 Presenter, North Carolina Museum of Natural Sciences
 1. *Pollinator Booth*. Prairie Ridge Ecostation, Raleigh, NC, 2018. ~300 attendees
 2. *Carnivorous Plants of North Carolina*. BugFest, North Carolina Museum of Natural Sciences, Raleigh, NC, 2017 ~35,000 attendees
 3. *The Physics of Ant Colonies*. BugFest, North Carolina Museum of Natural Sciences, Raleigh, NC, 2015. ~35,000 attendees
- 2015 Co-organizer, *The Insects of M.C. Escher*. College Night at the North Carolina Museum of Art, Raleigh, NC. ~1,600 attendees