

# JACQUELYN LEE FITZGERALD

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Chicago Botanic Garden  
Plant Conservation Science Center  
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jacquelynfitzgerald.com

## EDUCATION

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- 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** (*cum laude*, *Departmental Honors Program*)  
North Carolina State University, Raleigh, NC, USA  
Concentration in Evolution, Ecology, and Conservation

## RESEARCH POSITIONS

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

## PUBLICATIONS

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- 2022 **Fitzgerald, J.L.**, J.E. Ogilvie, P.J. CaraDonna. 2022. *Ecological drivers and consequences of bumble bee body size variation*. *Environmental Entomology*, 51, no 6: 1055-1068.
- 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-Urbe, S.D. Frank, D.R. Tarpy, R.R. Dunn. *Do Bee Wings Adapt for Flight in Urban Environments?* 2019. *Southeastern Naturalist*, 18, no. 2:183–191
- in prep* **Fitzgerald, J.L.**, J.E. Ogilvie, P.J. CaraDonna. *Body size variation within and between bumble bee life stages is driven by biotic and abiotic factors, with consequences for phenology and resource use*. [In preparation for a special issue of *Journal of Animal Ecology*]
- in prep* **Fitzgerald, J.L.**, J.E. Ogilvie, P.J. CaraDonna. *Morphological integration and trait scaling across social castes in wild bumble bees*. [writing phase]

## GRANTS & FELLOWSHIPS (total = \$157,736)

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2023	Rocky Mountain Biological Laboratory Graduate Fellowship Hunter Endowment	\$1,450
	Northwestern University Plant Biology and Conservation Research Award	\$900
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	\$750
	Northwestern University Data Visualization Contest (1 <sup>st</sup> 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

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- 2023 **Fitzgerald, J.L.**, P.J. CaraDonna. *Intraspecific variation of thermal tolerance in bumble bees*. Contributed talk, Ecological Society of America Annual Meeting, Portland, OR, USA.
- 2022 **Fitzgerald, J.L.**, J.E. Ogilvie, P.J. CaraDonna. *Drivers and Consequences of Bumble Bee Body Size Variation*. Contributed talk, Ecological Society of America Annual Meeting, Montreal, Canada.
- 2021 **Fitzgerald, J.L.**, J.E. Ogilvie, P.J. CaraDonna. *Intraspecific body size variation in subalpine bumble bees*. Poster, Ecological Society of America Annual Meeting, Virtual.
- 2016 **Fitzgerald, J.L.**, M. Lopez-Urbe, D. Beasley, D. Tarp. *Morphometric Wing Analysis of Urban Bees*. Contributed talk, Southern Appalachian Honeybee Research Consortium, Clemson, SC, USA.
- 2015 **Fitzgerald, J.L.**, T. Wentworth, C. Penick, K. Stuble, R. Dunn. *Seasonal Effects of Climate Warming on Forest-Floor Arthropod Communities*. Poster, Evolution Annual Meeting, Guarujá, São Paulo, Brazil.
- 2015 **Fitzgerald, J.L.**, T. Wentworth, C. Penick, K. Stuble, R. Dunn. *Seasonal Effects of Climate Warming on Forest-Floor Arthropod Communities*. Contributed talk, Association of Southeastern Biologists Annual Meeting, Chattanooga, TN, USA.

## TEACHING

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- 2023 Instructor of Record, *Analytical Toolkit for Ecologists* (PBC 470), Northwestern University
- 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

## MENTORING

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- 2023 Hannah Burke, Undergraduate Independent Research (Florida State University & RMBL)  
2022-23 Brayden Saunders, Undergraduate Independent Research (Lake Forest College & RMBL)

## PROFESSIONAL SERVICE

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- 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)  
*Global Change Biology\**, *Ecology\**, *Ecology Letters*, *Functional Ecology*, *Ecosphere*,  
*Oecologia*, *Plant Biology*

## SELECT PROFESSIONAL DEVELOPMENT

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- 2023 Workshop, *Mentoring up and down*. Graduate School, Northwestern University  
2020 Workshop, *Public Writing Workshop*. Center for Civic Engagement, Northwestern University  
2019 Workshop, *Bee diversity and identification in North Carolina*. NC 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

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- 2022-23 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