

JACQUELYN LEE FITZGERALD

Chicago Botanic Garden
Plant Conservation Science Center
1000 Lake Cook Road, Glencoe, IL, USA 60022
jfitzgerald@chicagobotanic.org

EDUCATION

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

RESEARCH POSITIONS

- 2020- **Principal Investigator**
Rocky Mountain Biological Laboratory, Gothic, CO
- 2018 **Research Technician**, Native Bee Lab
Department of Entomology, University of Minnesota, St. Paul, MN
PI: Dr. Dan Cariveau
- 2016-18 **Research Assistant**, Department of Applied Ecology
North Carolina State University, Raleigh, NC
Rocky Mountain Biological Laboratory, Gothic, CO
PIs: Dr. Rebecca Irwin & Dr. Brad Taylor
- 2016 **Conservation Intern**, North Carolina Botanical Garden
University of North Carolina at Chapel Hill, Chapel Hill, NC
- 2015-16 **Research Support**, NC State Insect Museum
Department of Entomology, North Carolina State University, Raleigh, NC
- 2014-15 **Research Assistant**, Apiculture Program
Department of Entomology, North Carolina State University, Raleigh, NC
PI: Dr. David Tarpy
- 2013-16 **Laboratory Assistant**, Department of Applied Ecology
North Carolina State University, Raleigh, NC
PI: Dr. Rob Dunn

PUBLICATIONS

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

GRANTS AND FELLOWSHIPS (total = \$ 149,326)

- 2021 Northwestern University Plant Biology and Conservation Research Award **\$1500**
- 2021 Rocky Mountain Biological Laboratory Graduate Fellowship Snyder Endowment **\$1,400**
- 2021 American Alpine Club Research Grant **\$750**
- 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**
- 2015 Atlantic Coast Conference Inter-Institutional Academic Collaborative Fellowship **\$2,980**
- 2015 North Carolina State Undergraduate Travel Grant **\$240**
- 2014 North Carolina State Undergraduate Research Grant **\$1,000**

CONFERENCE PRESENTATIONS

- 2020 **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-Uribe, D. Beasley, D. Tarpy. *Morphometric Wing Analysis of Urban Bees*. Oral Presentation, Southern Appalachian Honeybee Research Consortium, Clemson, SC.
- 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*. Oral presentation, Association of Southeastern Biologists Annual Meeting, Chattanooga, TN.
- 2014 **Fitzgerald, J.L.**, R. Wong. *Visualizing the expression of brain aromatase in Zebrafish: Identifying brain regions associated with estrogenic endocrine disruption*. Poster. W. M. Keck Center for Behavioral Biology Student/Postdoc Symposium, Raleigh, NC.

SEMINAR PRESENTATIONS

- 2021 Graduate Student Seminar Series, Rocky Mountain Biological Laboratory, Gothic, CO
- 2021 Plant Biology and Conservation Seminar Series, Chicago Botanic Garden, Glencoe, IL

TEACHING

- 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

UNDERGRADUATE MENTORING

- 2021 Hannah Walton, Rocky Mountain Biological Laboratory, University of South Carolina
2021 Emilie Gitter, Rocky Mountain Biological Laboratory, Luther College

PROFESSIONAL SERVICE

- 2022 Graduate Student Coordinator, Rocky Mountain Biological Laboratory
2020-22 Graduate Student Representative to the Science Department, Chicago Botanic Garden
2020-21 Graduate Mentor, NSF GRFP workshop, Botanical Society of America
2019- Manuscript reviewer: *Ecology*, *Global Change Biology*, *Oecologia*

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.

MEDIA COVERAGE

- 2021 Podcast interview, "*Bumblebees in the Spotlight*", *In the Spotlight*
2020 Print interview, "*Pollination & Pickles: A Look into the World of Bees*," *Mt. Olive Pickles*

SELECT SCIENCE COMMUNICATION

- 2018-21 Program on bees and pollination
4. Crested Butte Land Trust, Rocky Mountain Biological Laboratory, Gothic, CO, 2021
3. College First, Chicago Botanic Garden, Glencoe, IL, 2020
2. Appalachian State University Academy at Middle Fork, Walkertown, NC, 2019
1. Erwin Montessori School, Greensboro, NC, 2018
- 2018 Science writer/contributing author
3. "*New proposal for Denver airport development prioritizes prairie habitat and connectivity.*" Conservation Corridor, 2018
2. "*Wind energy infrastructure may funnel wildlife movement.*" Conservation Corridor, 2018
1. "*How Bee Hotels Support Urban Pollinators and Educate Locals on One College Campus.*" Entomology Today, 2018
- 2015-17 Presenter, North Carolina Museum of Natural Sciences
3. *Pollinator Booth: Gnome and Fairy Day*. 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
1. *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