

JACQUELYN LEE FITZGERALD

Chicago Botanic Garden
Plant Conservation Science Center
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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 (honors)**
North Carolina State University
College of Sciences, 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, CA. 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-Urbe, 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

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

- 2021 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 NC State Undergraduate Travel Grant **\$240**
- 2014 NC 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-Urbe, 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.**, T. Wentworth, C. Penick, R. Dunn. *Large-Scale Climate Manipulations Reveal Broad Changes in Forest Arthropod Communities*. Poster. NC State Spring Undergraduate Research Symposium, Raleigh, NC.
- 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.
- 2013 **Fitzgerald, J.L.**, C. Bachman, K. Henkel, and G. Jou. *Species adaptation to environmental stressors*. Poster. NC State College of Agriculture and Life Sciences Undergraduate Research Symposium, Raleigh, NC.

TEACHING

- 2020 Graduate Teaching Assistant, Evolutionary Processes (BIO 342), Northwestern University
2016 Junior Teaching Assistant, Ecology (BIO 360), North Carolina State University

PROFESSIONAL SERVICE

- 2020 Graduate Mentor, NSF GRFP workshop, Botanical Society of America
2020 Graduate Student Representative to the Science Department, Chicago Botanic Garden
2019- Manuscript reviewer: *Ecology*, *Global Change Biology**
*multiple assignments

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

- 2018- Program on bees and pollination
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
- 2016 Illustrator, *Discover Didymo Distribution*. Citizen science project with North Carolina State University and Trout Unlimited.
- 2015 Co-organizer, *The Insects of M.C. Escher*. College Night at the North Carolina Museum of Art, Raleigh, NC. ~1,600 attendees