

JACQUELYN LEE FITZGERALD

Chicago Botanic Garden
Plant Conservation Science Center
1000 Lake Cook Road, Glencoe, IL, USA 60022
jacquelyn.l.fitz@gmail.com

EDUCATION

- 2019- **PhD Student**, 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

- 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 *high school co-author
- In press* 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.*
- In review* **Fitzgerald, J.L.**, K.L. Stuble, L.M. Nichols, S.E. Diamond, T.R. Wentworth, S.L. Pelini, N.J. Gottelli, N.J. Sanders, R.R. Dunn, C.A. Penick. *Abundance of spring-active arthropods declines with warming.*

AWARDS AND HONORS

- 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**
- 2013 Gamma Sigma Delta recognition of Outstanding Academic Achievement
- 2013 Winner, NCSU CALS Undergraduate Research Symposium
- 2013 Sigma Xi Undergraduate Research Award

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.

SCIENCE COMMUNICATION AND OUTREACH

- 2019 Program on bees and pollination, Appalachian State University Academy at Middle Fork, Walkertown, NC.
- 2018 Program on bees and pollination, Erwin Montessori School, Greensboro, NC.
- 2018 Contributing author, "New proposal for Denver airport development prioritizes prairie habitat and connectivity." Conservation Corridor.
- 2018 Presenter, *Pollinator Booth: Gnome and Fairy Day*. Prairie Ridge Ecostation, Raleigh, NC. ~300 attendees
- 2018 Contributing author, "Wind energy infrastructure may funnel wildlife movement." Conservation Corridor.
- 2018 Contributing author, "How Bee Hotels Support Urban Pollinators and Educate Locals on One College Campus." Entomology Today.
- 2017 Video post-production, "Architects of Labor: Ants, Art, & Science." North Carolina Museum of Natural Sciences, Raleigh, NC.
- 2017 Presenter, *Carnivorous Plants of North Carolina*. BugFest, North Carolina Museum of Natural Sciences, Raleigh, NC. ~35,000 attendees
- 2016 Illustrator, *Discover Didymo Distribution*. Citizen science project with North Carolina State University and Trout Unlimited.
- 2016 Artist, *Biological Illustration*. Exhibit at the iPearl Immersion Theatre. Hunt Library, NCSU, Raleigh, NC.
- 2016 Visual effects editor, "Ant Queen Chemicals with Mom." North Carolina Museum of Natural Sciences, Raleigh, NC.
- 2015 Co-organizer, *The Insects of M.C. Escher*. College night at the North Carolina Museum of Art, Raleigh, NC. ~1,600 attendees
- 2015 Opening remarks, *Celebrating the intersection of art and science*. NCSU College of Science Donor Recognition Dinner, Raleigh, NC.
- 2015 Presenter, *The Physics of Ant Colonies*. BugFest, North Carolina Museum of Natural Sciences, Raleigh, NC. ~35,000 attendees

PROFESSIONAL SERVICE

- 2019- Manuscript reviewer: *Ecology*, *Global Change Biology*
- 2020 Graduate Student Representative to the Science Department, Chicago Botanic Garden

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.
- 2018 Workshop, *From Scientist to Social Media Influencer*. North Carolina State University.
- 2017 Workshop, *Communicate Your Science: How to pitch your research to the world*. NCSU Libraries.
- 2017 Workshop, *Seeing Science: Improving your visual communication skills*. NCSU Libraries.
- 2017 Workshop, *Elements of Visualization Design*. NCSU Libraries.
- 2017 Workshop, *Storytelling for Science Communication*. Story Collider.