Jacob T. Wittman

PHD STUDENT

1980 Folwell Avenue, St. Paul, MN

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Education

University of Minnesota St. Paul, MN

PHD ENTOMOLOGY, CONCETRATION: FOREST ENTOMOLOGY, MINOR: BIOSTATISTICS

Sept. 2018 - 2022 (anticipated)

· Dissertation Topic: Emerald ash borer biocontrol modeling

University of Minnesota

MSc Entomology, Concetration: Forest Entomology

Jun. 2016 - Sept. 2018

St. Paul. MN

• GPA of 4.00

 Thesis Title: Effects of host type and food deprivation on the movement behavior of late-instar larvae of gypsy moth Lymantria dispar (Lepidoptera: Erebidae)

Luther CollegeDecorah, IA

TEACHING LICENSE IN SECONDARY EDUCATION BIOLOGY

Sept. 2012 - Dec. 2013

Jun. 2014 - Jun. 2016

• GPA of 4.00

Luther CollegeDecorah, IA

BA IN BIOLOGY & ENVIRONMENTAL STUDIES Sept. 2008 - May 2012

GPA of 3.68

Teaching Experience

University of Minnesota St. Paul, MN

Teaching Assistant Sept. 2018 - Dec. 2018

• Insect Biology (ENT 1005)

DREAM Technical Academy Willmar, MN

SCIENCE TEACHER

• Grades 7 - 12

Faribault High School

Faribault, MN

LONG-TERM SUBSTITUTE - BIOLOGY

Feb. 2014 - Apr. 2014

• Biology (Grade 11)

• Integrated Life Science (Grade 9)

Huntington Learning Center Plymouth, MN

Oct. 2013 - Aug. 2014

• Science (Grades 6 - 12)

• Math (Grades 6 - 12)

ACT (Grades 11 - 12)

Edina High School Edina, MN

STUDENT TEACHER Oct. 2013 - Dec. 2013

• Biology (Grade 11)

• AP Biology (Grade 12)

Stillwater Junior High Stillwater, MN

Student Teacher Aug. 2013 - Oct. 2013

• Life Sciences (Grade 7)

Publications

- 1. Stivers, EK, JT Wittman, and KJ Larsen (2019). A comparison of adult butterfly communities on remnant and planted prairies in northeast Iowa. *Journal of the Lepidopterists' Society* **In Press**.
- 2. Wittman, JT and BH Aukema (2019). Foliage type and availability alters the movement behavior of late instar European gypsy moth Lymantria dispar (Lepidoptera: Erebidae). *Journal of Insect Behavior*, 1–14.
- 3. Wittman, JT, RA Nicoll, SW Myers, PH Chaloux, and BH Aukema (2019). Characterizing and simulating the movement of late instar gypsy moth (Lepidoptera: Erebidae) to evaluate the effectiveness of regulatory practices. *Environmental Entomology*.
- 4. Wittman, J, E Stivers, and K Larsen (2017). Butterfly Surveys are Impacted by Time of Day. *Journal of the Lepidopterists' Society* **71**(2), 125–129.
- 5. Wittman, J, A Weckwerth, C Weiss, S Heyer, J Seibert, B Kuennen, C Ingels, L Seigley, K Larsen, and J Enos-Berlage (2013). Evaluation of land use and water quality in an agricultural watershed in the USA indicates multiple sources of bacterial impairment. *Environmental Monitoring and Assessment* **185**(12), 10395–10420.

Presentations

- 1. Wittman, JT, and BH Aukema (2018). *Effects of host foliage on the movement behavior of larvae of gypsy moth (Lymantria dispar)*. Oral presentation at the Entomological Society of America, Annual Meeting, November 11 14, Vancouver, British Columbia, Canada.
- 2. Wittman, JT, PH Chaloux, SW Myers, and BH Aukema (2018). *Keeping gypsy moth where they are: Investigating how far gypsy moth larvae can move.* Oral presentation at the Western Forest Insect Work Conference, March 26 29, Denver, CO.
- 3. Wittman, JT, PH Chaloux, SW Myers, and BH Aukema (2018). *Developing science to support practice: Determining distances required to protect log decks from wandering gypsy moth larvae.* Poster presentation at the USDA Interagency Forum on Invasive Species, January 9 12, Annapolis, MD.
- 4. Wittman, JT, SW Myers, PH Chaloux, and BH Aukema (2017). *Evaluating gypsy moth (Lymantria dispar) larval movement potential and effective barriers limiting their movement.* Oral presentation at the Entomological Society of America, Annual Meeting, November 5 8, Denver, CO.
- 5. Wittman, JT, SW Myers, PH Chaloux, and BH Aukema (2017). Supporting policy with science: Are buffer zones around wood products effective at preventing the spread of gypsy moth (Lymantria dispar). Oral presentation at the International Union of Forest Research Organizations Forest Insects and Pathogens in a Changing Environment: Ecology, Monitoring, and Genetics, September 11 15, Thessaloniki, Greece.
- 6. Wittman, JT, PH Chaloux, D Lance, SW Myers, and BH Aukema (2016). *Evaluating the effectiveness of buffer zone practices in preventing the spread of gypsy moth (Lymantria dispar)*. Oral presentation at the Gypsy Moth Program Advisory Committee Meeting, November 22, St. Paul, MN.
- 7. Wittman, JT, PH Chaloux, D Lance, SW Myers, and BH Aukema (2016). *I Would Walk 500 Miles: Orientation and Movement Potential of Gypsy Moth Larvae in a Simulated Lumber Yard.* Oral presentation at the Annual Gypsy Moth Review, October 25 27, Columbus, OH.
- 8. Nicoll, RA, JT Wittman, SW Myers, D Lance, and BH Aukema (2016). *Do buffer zones prevent the spread of gypsy moth* (Lymantria dispar) *larvae?* Poster presentation at the Upper Midwest Invasive Species Conference, October 16-19, La Crosse, WI.
- 9. Wittman, J., E Stivers, and KJ Larsen (2016). *Bees, Butterflies and Beetles: A Comparison of Remnant and Planted Prairies in Northeast Iowa*. Oral presentation at the Day of Insects, April 9, Ames, IA.
- 10. Stivers, E, JT Wittman, and KJ Larsen (2015). *A comparison of adult butterfly communities on remnant and planted prairies in Northeast Iowa*. Poster presentation at Entomological Society of America, 63rd Annual Meeting. November 14 18, Minneapolis, MN.
- 11. Wittman, JT, A Weckwerth, and J Enos-Berlage (2012). *Exploring the Dry Run Creek Watershed: Molecules, Microbes, and Macroinvertebrates.* Poster presentation at the Iowa Water Conference. March.

Software.

1. Wittman, JT and BH Aukema (2019). servosphereR: Analyze data generated from SynTech Servosphere trials. R software package. https://cran.r-project.org/web/packages/servosphereR/.

Grants Characterizing dispersal of larval gypsy moth to improve quarantine regulations St. Paul, MN MINNESOTA INVASIVE TERRESTRIAL PLANT AND PEST CENTER 2018 • \$35,000 Fellowships & Honors _____ **Chiang Travel Award** St. Paul, MN DEPARTMENT OF ENTOMOLOGY, UNIVERSITY OF MINNESOTA • \$200 **Chiang Travel Award** St. Paul, MN DEPARTMENT OF ENTOMOLOGY, UNIVERSITY OF MINNESOTA 2017 McLaughlin Gormley King (MGK) Fellowship St. Paul, MN DEPARTMENT OF ENTOMOLOGY, UNIVERSITY OF MINNESOTA 2016 - 2017 **Howard Hughes Medical Institute Teacher Scientist Fellowship** Decorah, IA **LUTHER COLLEGE** 2012 - 2013 • \$12,500 **Institutional and Departmental Service Grant Reviewer** St. Paul, MN COUNCIL OF GRADUATE STUDENTS, UNIVERSITY OF MINNESOTA 2019 **President** St. Paul, MN Frenatae (Entomology graduate student association, University of Minnesota) 2019 - present

FRENATAE (ENTOMOLOGY GRADUATE STUDENT ASSOCIATION, UNIVERSITY OF MINNESOTA)

Treasurer

Council of Graduate Students Representative St. Paul, MN

FRENATAE (ENTOMOLOGY GRADUATE STUDENT ASSOCIATION, UNIVERSITY OF MINNESOTA) 2016 - 2017

St. Paul, MN

St. Paul, MN

2018 - 2019

2017 - 2018

3