

Jacob Timothy Wittman

PHD STUDENT

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Education

University of Minnesota

PHD ENTOMOLOGY, CONCENTRATION: FOREST ENTOMOLOGY, MINOR: BIOSTATISTICS

- Dissertation Topic: Emerald ash borer biocontrol modeling

St. Paul, MN

Sept. 2018 - 2022 (anticipated)

University of Minnesota

MSC ENTOMOLOGY, CONCENTRATION: FOREST ENTOMOLOGY

- 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: Erebididae)

St. Paul, MN

Jun. 2016 - Sept. 2018

Luther College

TEACHING LICENSE IN SECONDARY EDUCATION BIOLOGY

- GPA of 4.00

Luther College

BA IN BIOLOGY & ENVIRONMENTAL STUDIES

- GPA of 3.68

Decorah, IA

Sept. 2012 - Dec. 2013

Decorah, IA

Sept. 2008 - May 2012

Teaching Experience

Monash University

TEACHING ASSOCIATE

- Advanced statistical modelling (ETC3580)
- Business forecasting (ETF3231/ETF5231)
- Mathematics for business (ETF2700)
- Data modelling and computing (ETC1010)

Caulfield & Clayton, Australia

S1 2016 - Present

Monash University

RESEARCH ASSISTANT

- Supervisors include Rob Hyndman, Dianne Cook, and George Athanasopoulos.
- Consulting projects with DiabetesLab, Tennis Australia, Monash University and Huawei.
- Contributed to the development of numerous open source R packages.

Clayton, Australia

Jan. 2016 - Present

Rotaract

VOLUNTEER

- Development and maintenance of club website and online services.
- Organising and hosting fundraisers.

Monash, Australia

Feb. 2013 - Nov. 2016

Google

STUDENT AMBASSADOR

- Supported Google's presence on campus with events and media.

Sydney, Australia

Feb. 2015 - Nov. 2015

iSelect

DATA MINING (INTERNSHIP)

- Improved business data and issue reporting with interactive visualisations, and model-based anomaly detection.

Cheltenham, Australia

Feb. 2015 - Mar. 2015

Coles

FRESH PRODUCE

- Food preparation & display, first aid, staff training and customer assistance.

Rowville, Australia

Oct. 2010 - Nov. 2015

PUBLICATIONS

1. Wittman, J, A Weckwerth, C Weiss, S Heyer, J Seibert, B Kuennen, C Ingels, L Seigley, K Larsen, and J Enos-Berlage (Dec. 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.
2. 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.
3. Wittman, JT and BH Aukema (2018). Foliage type and availability alters the movement behavior of late instar European gypsy moth *Lymantria dispar* (Lepidoptera: Erebididae). *Journal of Insect Behavior*, In Review.
4. Wittman, JT, RA Nicoll, SW Myers, PH Chaloux, and BH Aukema (2019). Characterizing and simulating the movement of late instar gypsy moth (Lepidoptera: Erebididae) to evaluate the effectiveness of regulatory practices. *Environmental Entomology*, In Press.

PRESENTATIONS

- **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.
- **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.
- **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.
- **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.
- **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.
- **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.
- **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.
- 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.
- **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.
- 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.
- **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.

Awards & Achievements

AWARDS

2017	Commerce Dean's Honour	Monash
2016	Commerce Dean's Commendation	Monash
2014-2016	Science Dean's List	Monash
2014	International Institute of Forecasters Award	IIF
2013	Rotary Youth Leadership Award	Rotary

SCHOLARSHIPS

2017	Econometrics Honours Memorial Scholarship	<i>Monash</i>
2015 & 2016	Monash Community Leaders Scholarship	<i>Monash</i>
2011 & 2012	Mitcham Rotary Scholarship	<i>Rotary</i>

COMPETITIONS

2018	UseR! 2018 Datathon Champion	<i>UseR!</i>
2017	RMIT SBITL Analytics Competition Champion	<i>RMIT</i>
2016	RMIT SBITL Analytics Competition Champion	<i>RMIT</i>