

# Finn Piatscheck | Curriculum Vitae

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## Education

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- 2013 - Present    Iowa State University  
Ph.D Student supervised by Dr. John Nason | Ecology and Evolutionary Biology.
- 2010 - 2011      University of Montpellier  
**Master of Science** | Second year of Master | Diversity and Evolution of Plants and their Symbionts.
- 2009 - 2010      University of La Réunion  
First year of Master | Tropical Biodiversity.
- 2006 - 2009      University of Montpellier  
**Bachelor of Science** | Organismal Biology.

## Publications

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- Piatscheck, F., Van Goor, J., Houston, D. D., & Nason, J. D. (2018). Ecological factors associated with pre-dispersal predation of fig seeds and wasps by fig-specialist lepidopteran larvae. *Acta Oecologica*, 90, 151-159.
- Van Goor, J., Piatscheck, F., Houston, D. D., & Nason, J. D. (2018). Figs, pollinators, and parasites: A longitudinal study of the effects of nematode infection on fig wasp fitness. *Acta Oecologica*, 90, 140-150.
- Blatrix, R., Peccoud, J., Born, C., Piatscheck, F., Benoit, L., Sauve, M., ... & McKey, D. (2017). Comparative analysis of spatial genetic structure in an ant-plant symbiosis reveals a tension zone and highlights speciation processes in tropical Africa. *Journal of Biogeography*.
- McCombs, A. L., Albertsen, A. J., Cox, M. M., Ernst, E. E., Haley, H. J., Loney, D. A., ... & Altrichter, E. A. (2016). Large Carnivore Conservation: Integrating Science and Policy in the North American West.
- Peccoud, J., Piatscheck, F., Yockteng, R., Garcia, M., Sauve, M., Djiéto-Lordon, C., ... & Blatrix, R. (2013). Multi-locus phylogenies of the genus *Barteria* (Passifloraceae) portray complex patterns in the evolution of myrmecophytism. *Molecular Phylogenetics and Evolution*, 66(3), 824-832.
- Arias, M. C., Arnoux, E., Bell, J. J., Bernadou, A., Bino, G., Blatrix, R., ... & Souche, E. L. (2012). Permanent genetic resources added to molecular ecology resources database 1 December 2011–31 January 2012. *Molecular Ecology Resources*, 12(3), 570-572.
- A'Hara, S. W., Amouroux, P., Argo, E. E., Avand-Faghih, A., Barat, A., Barbieri, L., ... & Magnoux, E. (2012). Permanent Genetic Resources added to Molecular Ecology Resources Database 1 August 2011–30 September 2011. *Molecular Ecology Resources*, 12(1), 185-189.

## Scientific Communications

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- 2018              Evolution 2018 | Montpellier  
Poster | Finn Piatscheck & John Nason: Environmental fluctuation differentially affects pollinators versus parasites in a fig – fig wasp mutualism.
- 2018              ISU Honor Student Program | Iowa State University  
Poster | Natalie Vance, Finn Piatscheck, Chris Baisan, Pearce Paul Creasman, Ramzi Touchan, & John Nason: Genomic insights into the origins of the Sycamore fig in the Mediterranean basin.
- 2018              EEB Spring Symposium | Iowa State University  
Oral | Finn Piatscheck & John Nason: Effects of biotic and abiotic ecological factors on a desert mutualism.

- 2017 Entomology 2017 | Denver  
Oral | Finn Piatscheck & John Nason: Effects of biotic and abiotic ecological factors on a desert mutualism.
- 2016 IX<sup>th</sup> International Fig Symposium | Montpellier  
Oral | Finn Piatscheck & John Nason: Flowering Variations and Their Effects on Antagonists in a Desert Mutualism.
- 2016 EEB Spring Symposium | Iowa State University  
Poster | Finn Piatscheck & John Nason: Ecological factors affecting interactions with antagonists in a fig-wasp mutualism.
- 2016 Association for Tropical Biology and Conservation | Montpellier  
Oral | Rumsais Blatrix, Jean Peccoud, Celine Born, Finn Piatscheck, ... & Doyle Mckey: Strong spatial genetic structure is correlated with climatic niche in a tree of the African tropical rain forest.
- 2012 Science Academy Seminar | Paris  
Poster | Finn Piatscheck, Jean Peccoud, Marjorie Garcia, Mathieu Sauve, ... & Rumsais Blatrix: Phylogenetic study of trees of the genus *Barteria* suggests multiple evolutionary origins of symbiosis with *Tetraponera* ants.

## Research Experience

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- 2012 CNRS | Montpellier  
Research Assistant supervised by Dr. Richard Joffre.
- 2011 CNRS | Montpellier  
Second Year Master's Internship supervised by Dr. Rumsais Blatrix and Dr. Doyle McKey.
- 2010 University of La Réunion  
First Year Master's Internship supervised by Dr. Mireille Fouillaud.
- 2009 CNRS | Montpellier  
Internship supervised by Dr. Marc-André Selosse.
- 2009 CNRS | Montpellier  
Internship supervised by Dr. Caroline Roullier.
- 2009 CNRS | Montpellier  
Internship supervised by Dr. Melanie Roy.
- 2009 Botanical Institute of Montpellier | Montpellier  
Internship supervised by Jean-Frédéric Terral.
- 2006 - 2008 Archeological Site Ponteau | Martigues  
Volunteering supervised by Dr. Xavier Margarit (each summer)

## Grants and Awards

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- 2017 Iowa State University  
Teaching Excellence Award.
- 2017 Iowa State University  
Graduate College  
Professional Advancement  
Grant, \$280.
- 2016 University of Iowa  
CGRER Grad Student Travel  
Awards, \$750.
- 2015 Iowa State University  
EEOB Finch Fund Grant,  
\$1333.
- 2014 University of Iowa  
CGRER Grad Student Travel  
Awards, \$900.

## Teaching Experience

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- 2017 **Instructor** | Biol 366 Plant Systematics  
Responsible for course organization, schedule, lectures, exercises and exams, and teaching assistant's management. Class topics included phytography, phylogenetics, principles of modern systematics, tree of life and plant diversity, characteristics of major plant families, some gymnosperms and mostly angiosperms. Position offered in replacement of Dr. Lynn Clark (on sabbatical).
- 2014 - 2018 **Teaching Assistant** | Biology 212 Principles of Biology II Laboratory  
Responsible for laboratory lectures, protocol explanation, student assistance, grading, and classroom maintenance/organization. Class topics included introductions to science principles,

biochemistry, quantitative techniques, molecular techniques, and plant/animal anatomy and physiology. (6 semesters)

2016 - **Teaching Assistant | Biol 366 Plant Systematics**

2018 Responsible for laboratory lectures, protocol explanation, student assistance, grading, and classroom and greenhouse material maintenance/organization. Class topics included phytography, phylogenetics, molecular systematics, review of the characteristics of the major plant groups and plant families presented in lectures. The exercises included many plant material dissections. (2 semesters)

2016 **Presentation | R Workshop**

GGPLOT2, GGMAP and data representation on maps.

2016 - **Guest Lectures | Biol 366 Plant Systematics**

2018 Plant Mutualisms and Coevolution. (2016)

Plant Speciation and Hybridization. (2018)

## Competency

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### Field Research

Experienced in organism population prospection, experiment set up, management and data collection in the field, in temperate (France), tropical (Réunion Island) and desertic (Mexico) environment. Very independent, extensive field enthusiast, and willing to learn foreign languages if necessary.

### Laboratory Skills

Experienced in biological samples processing and sorting, optical microscopy, microbiology, molecular biology (buffer preparation, DNA extraction, DNA amplification, ddRAD-Seq library preparation).

### Computational Skills

Experienced in statistical analysis, graphical representation of data and computer programming in R, genetic data analysis, phylogenetics and spatial analysis with appropriate software and R packages, figures and maps realization with photoshop and R, course design and instruction in Blackboard and Canvas. Regular user of MS Office Suite, Unix, Python, Markdown and high-performance computing clusters.

### Student Mentoring

Experienced with mentoring more than 60 undergraduate students in Nason's lab over 5 years and 2 honor students which presented posters of their research.

### Manuscript Review

Acta Oecologica.

### Symposium Organization

Entomology 2017 | "It Takes Two: Co-Evolutionary Innovation in Insect-Based Mutualisms"

### Languages

French (expert), English (expert), German (good skills), Spanish (beginner).