Finn Piatscheck | Curriculum Vitae

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Education

2013 - 2019	Iowa State University ***Doctor of Philosophy*** | 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

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, ... & 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*, 44(8), 1856-1868.

McCombs, A. L., Albertsen, A. J., Cox, M. M., Ernst, E. E., Haley, H. J., Loney, D. A., ... & Klaver, R. W. (2016). Large Carnivore Conservation: Integrating Science and Policy in the North American West: Book Review, *Journal of Mammalogy*, 97(4), 1256-1258.

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

2019	Botany 2019 | Tucson Oral | Finn Piatscheck & John Nason: Effect of Past, Present and Future Climate on an Obligate Plant-Insect Mutualism
2019	EEOB departmental Three Minute Thesis (3MT) | Iowa State University Oral | Finn Piatscheck: "Past, present and future: geographic and temporal variation of in a fig-fig wasp mutualism". (Winner)

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 IXth 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

2013-Present Iowa State University
PhD Student supervised by Dr. John Nason.

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

2019 Iowa State University
Research Excellence Award.

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

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).

2016 - 2018 **Teaching Assistant |** Biol 366 Plant Systematics
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)

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 **Presentation |** R Workshop
GGPLOT2, GGMAP and data representation on maps.

2016 - 2018 **Guest Lectures |** Biol 366 Plant Systematics
Plant Mutualisms and Coevolution. (2016)
Plant Speciation and Hybridization. (2018)

Competency

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, enjoy working as part of a team and wiling to learn foreign languages if necessary.

Laboratory Skills
Experienced in biological samples processing and sorting, optical microscopy, microbiology (sterile technics, microorganism isolation), 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, processing Illumina and RAD sequence data, genetic data analysis, population genetics, 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 | Denver
Symposium | “It Takes Two: Co-Evolutionary Innovation in Insect-Based Mutualisms”.

Affiliations/Memberships

2019 - Present	Botanical Society of America
2018 - Present	Society for the Study of Evolution
2017 - 2018	Entomological Society of America

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