

Laure-Anne POISSONNIER

14/06/1989

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Education

PhD - Collective nutrition in social insects.

16-02-2015 to 16-07-2018

University of Adelaide – Supervisors: Jerome Buhl & Audrey Dussutour

Master 2 - Neurosciences, Behaviour and Cognition. Internship: Traffic organization in ants.

2012-2013

Paul Sabatier University (Toulouse, France) – Supervisor: Audrey Dussutour

Master 1 – Functional, Behavioural and Evolutionary Ecology. Internship: Social interactions in groups of queenless bumblebee workers.

2011-2012

Rennes1 University (Rennes, France) – Supervisors: Andrew Jackson & Colby Tanner

Bsc Biology of Organisms

2008-2011

Rennes1 University (Rennes, France)

Bachelor of English

2007-2011

Rennes1 University (Rennes, France)

Publications

1. **Poissonnier, L-A**, Arganda S, Simpson S J, Dussutour A & Buhl J. (2018). Nutrition in extreme food specialists: An illustration using termites. *Functional Ecology*, in press.

2. **Poissonnier L-A**, Lihoreau M, Gomez-Moracho T, Dussutour A & Buhl J. (2017). A theoretical exploration of dietary collective medication in social insects. *Journal of Insect Physiology*, 106, 78-87.

3. Dussutour A, **Poissonnier L-A**, Buhl J & Simpson S J. (2016). Resistance to nutritional stress in ants: When being fat is advantageous. *Journal of Experimental Biology*, 219(6), 824-833.

4. Lihoreau M, **Poissonnier L-A***, Isabel G & Dussutour A. (2016). Drosophila females trade off good nutrition with high-quality oviposition sites when choosing foods. *Journal of Experimental Biology*, 219(16), jeb-142257. *authors contributed equally to the study.

5. **Poissonnier L-A**, Jackson A L & Tanner C J. (2015). Cold and CO2 narcosis have long-lasting and dissimilar effects on *Bombus terrestris*. *Insectes Sociaux*, 62(3), 291–298.

6. **Poissonnier L-A**, Simpson S J, & Dussutour A. (2014). Observations of the “Egg White Injury” in ants. *PLoS ONE*, 9(11), e112801.

Grants and Awards

2018 – Finalist of the Phil Carn Prize for best student work in entomology in Australia.

2018 – Student Internation Union for Study of Social Insects Grant to present my PhD results at the International Conference 2018 in Guaruja, Brazil.

2016 – Student Internation Union for Study of Social Insects Grant to present my PhD results at the European Conference 2016 in Helsinki, Finland.

2015 – PhD Full Fee Scholarship from the Agriculture Food and Wine, University of Adelaide

Research related experience

- **Student club committee member** (2016 and 2017)

Treasurer of the Postgraduate Student Club of Waite Campus in 2016, and vice-president in 2017.

- **Research assistant** (from 1st of August 2014 to 31st of January 2015)

Changes in learning and memory abilities in relation to nutritional balance in *Drosophila melanogaster*.

Supervisors: Audrey Dussutour, Guillaume Isabel, Mathieu Lihoreau - Research Center on Animal Cognition (CRCA), Paul Sabatier University (Toulouse, France)

- **In charge of the ant insectaries** (1st of July to 31st of August 2014) - Research Center on Animal

Cognition (CRCA), Paul Sabatier University (Toulouse, France)

- **Research assistant** (2^d of January to 31st of May 2014)

Traffic organization in Argentine ants, in the continuity of my Master’s work & Influence of protein/carbohydrates ratio on the behaviour and survival of the ant *Lasius niger*.

Supervisor: Audrey Dussutour - Research Center on Animal Cognition (CRCA), Paul Sabatier University (Toulouse, France)

- **Research assistant** (1st to 31st of July 2012)

I designed a protocol to measure the effects of CO₂ and cold narcosis on activity, aggressiveness, foraging and productivity in groups of bumblebee workers.

Supervisors: Andrew Jackson, Colby Tanner - Trinity College Dublin (Ireland)

Supervising and mentoring

- Demonstrating for practicals in Microbiology and Invertebrates at the University of Adelaide, 12 hours in 2017 and 6 hours in 2018 for bachelor students.

- Advising students (research interns for a project of 10 hours per week for 12 weeks)
Robyn in 2018
Claire Dixon in 2017

Skills

- o *Language ability*: French (native language), fluent English and moderate German
- o *Scientific*: Ethology methods, Insect experimentation (termite, ant, drosophila, bumblebee), Nutrition, Use of statistics, Scientific publications
- o *Use of software*: Matlab, Image J, R, Excel

Referees

Dr Jerome BUHL

Senior Lecturer School of Agriculture, Food and
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Campus The University of Adelaide, South
Australia 5005
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PhD supervisor

Dr Audrey DUSSUTOUR (CNRS Researcher)

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PhD and Master supervisor