

Last name: **AMOUROUX** First name: **Paul**, Mathieu, Edmond  
Address: **7 B, Chemin Sapan - 97410 Saint-Pierre – France**  
Email: [paul.amouroux@cirad.fr](mailto:paul.amouroux@cirad.fr)  
Phone from France: **02 62 70 16 19** From other countries: **(262) 262 70 16 19**  
Date de naissance: **09/04/1981** Nationality: **French**

## **My PhD in entomology and my interdisciplinary experiences will be useful to develop biological control technologies**

### **WORK EXPERIENCES**

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#### **Associate Researcher, 2013-2014**

*University of Reunion Island, The marine ecology lab (ECOMAR)*

<http://sciences.univ-reunion.fr/de/laboratoires/ecomar/>

40 days survey on sooty terns and cat predation on Juan de Nova (French Scattered Islands)

Writing report and short note on land birds.

*CIRAD Reunion - Agricultural Research for Development, UMR PVBMT*

Genetics analyses of worldwide diversity of *Procontarinia mangiferae* (Felt). Writing paper.

#### **Research Assistant, 2009 (4 months)**

*Plant Protection Services (French Ministry of Agriculture)*

Evaluation of efficiency of insecticidal and fungicidal treatments against broad mite and powdery mildew. Monitoring insect and fungi populations and damages. Monitoring populations of mango gall midge in orchards.

#### **Research assistant (International Volunteer), 2007-2009 (2 years)**

*CIRAD Reunion - Agricultural Research for Development, UPR HortSys*

Monitoring of mango pests in relation with mango phenology for IPM project.

Survey designed for gall midges, fruit flies, bugs, thrips and scales.

#### **Qualified technician, 2005 (2 months) and 2006 (3 months)**

*French National Institute of Agricultural Research (INRA Poitou-Charentes)*

Intensive monitoring of grasshopper populations in the cereal plain of Niort

### **EDUCATION AND TRAINING**

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#### **PhD in Entomology, 2010-2013 (3 years)**

*University of Reunion Island* <http://www.univ-reunion.fr/university-of-reunion-island/>

*CIRAD Réunion UPR HortSys et UMR PVBMT*

Improve our knowledge of the biology of the invasive mango blossom gall midge, *Procontarinia mangiferae*, in the subtropical Reunion Island

- by describing its genetic diversity (using microsatellites and mitochondrial DNA) and investigating the ecological and biological determinants of the genetic structure of its populations,
- by carrying out field and controlled (laboratory) experiments to understand the diapause strategies,
- by describing the arrival and dispersion of females within an orchard using statistical and mechanistic models (R software) taking into account their flight capacity and the spatio-temporal distribution of the mango susceptible resources.

## **Master of Science “Environment, sustainable development and societies”, 2004-2005**

*AgroParisTech* (<http://www.agroparistech.fr/Presentation-of-AgroParisTech.html>)

Concluded with required internship: Statistical analyses and modeling of the annual dynamics of grasshoppers and of the parameters for their abundance and presence in the perennial habitat (grassland).

*French National Institute of Agricultural Research (INRA Poitou-Charentes) and National Center for Scientific Research (CNRS Chizé)*

## **Ingénieur en Agriculture, spécialité Environnement et Aménagement Rural, 1999-2004**

*ISARA-Lyon*

Concluded with required internship: Methodological studies for estimating density and for tracking movement of grasshopper populations in grassland

*French National Institute of Agricultural Research (INRA Poitou-Charentes)*

## **Pontificia Universidad Católica de Chile, 2003**

**University exchange (Facultad de Agronomía) and work experience in CODEFF (NGO environmentalist)**

## **SKILLS**

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### **Languages**

**French, mother tongue**

**Spanish, fluent**

**English, working knowledge**

### **Technical abilities**

Molecular techniques: PCR, microsatellites primers design, microsatellites genotyping, cloning techniques, barcoding

Laboratory experiments (P2): insect rearing and plant breeding, insect identification (grasshoppers)

Protocol design and field survey in tropical conditions

### **Software**

Genemapper, STRUCTURE, TESS, BAPS, Genepop, Genetix, Arlequin, MEGA, ModelTest

Microsoft office (Word, Excel, Access, Power Point)

QGIS

R

**French driver's license                    B**

## **SCIENTIFIC REFERENCES**

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**Frédéric NORMAND Dr.**, Agronomist researcher, CIRAD Reunion - UPR HortSys.

Phone: 00 262 262 96 93 64

E-mail: [frederic.normand@cirad.fr](mailto:frederic.normand@cirad.fr)

**Hélène DELATTE Dr.**, geneticist researcher, CIRAD Reunion – UMR PVBMT

Phone: 00 262 262 49 92 35

E-mail: [helene.delatte@cirad.fr](mailto:helene.delatte@cirad.fr)

**Samuel NIBOUCHE Dr.**, my PhD supervisor, entomologist researcher, CIRAD Reunion – UMR PVBMT

Phone: 00 262 262 49 92 38

E-mail: [samuel.nibouche@cirad.fr](mailto:samuel.nibouche@cirad.fr)

## Publications accepted

- Amouroux P.**, Normand F., Delatte H., Roques A. and Nibouche S. Diapause incidence and duration in the pest mango blossom gall midge, *Procontarinia mangiferae* (Felt), on Reunion Island. *Bulletin of entomological research*. 104, 661-670.
- Bricca E, Nibouche S, Delatte H, Normand F, **Amouroux P.** 2014. Test of the pathogenicity of two commercial *Beauveria* strains pathogenic on third instar larvae of the mango blossom gall midge, *Procontarinia mangiferae* (Felt) (Diptera: Cecidomyiidae)? *Fruits*. 69 (3): 189-194.
- Amouroux P.**, Normand F, Nibouche S, Delatte H. 2013a. Invasive mango blossom gall midge, *Procontarinia mangiferae* (Felt) (Diptera: Cecidomyiidae) in Reunion Island: ecological plasticity, permanent and structured populations. *Biological Invasions* 15 (8):1677-1693.
- Amouroux P.** and Normand F. 2013b. Survey of mango pests in Reunion Island, with a focus on pests affecting flowering. *Acta Hort.* (ISHS) 992:459-466
- Amouroux P.**, Normand, F., Nibouche S., Delatte, H. 2012. Isolation and characterization of microsatellite markers from *Procontarinia mangiferae* (Felt). In: Permanent genetic resources added to molecular ecology resources database 01/08/2011-30/09/2011. *Molecular Ecology Resources*, 12 (1): 185-189.
- Badenhausser I., **Amouroux P.** and Bretagnolle V. 2009. Estimating acridid (Orthoptera: Acrididae) abundance in european grassland habitats: sampling methodology and density fluctuations. *Journal of Applied Entomology*. 133 (9-10) : 720-732
- Badenhausser I., **Amouroux P.** and Bretagnolle V. 2007. Estimating acridid densities in grassland habitats: a comparison between presence/absence and abundance sampling designs. *Environmental Entomology*. 36 (6) : 1494-1503

## In preparation

- Amouroux P.**, Normand F, Nibouche S, Delatte H. Worldwide genetic diversity of *Procontarinia mangiferae* (Felt) and its invasion routes. *Molecular Ecology*
- Amouroux P.**, Orłowski S., Le Corre M. The breeding land birds of Juan de Nova (Mozambique Channel) with a special focus on the reproduction of the Madagascar Bee-eater, *Merops superciliosus*. *Ostrich*

## Book chapter

- Amouroux P.**, Normand F., Vincenot D. 2009. Le raisonnement de la conduite du verger. In : Vincenot Didier (ed.), Normand Frédéric (ed.). *Guide de production intégrée de mangues à la Réunion*. Montpellier: CIRAD, p. 75-104.

## Congress communications

- Amouroux P.**, Delatte H., Nibouche S., Chadœuf J. and Normand F. 2013. Genetics and biology of the mango blossom gall midge, *Procontarinia mangiferae*, a pest with highly adaptable life strategies. In: 10th International Mango Symposium (book of abstracts), 2013-06-03/2010-06-07, Punta Cana, Dominican Republic.
- Amouroux P., Normand F, Nibouche S, Delatte H. 2012. Ecological plasticity and genetic diversity of the mango blossom gall midge, *Procontarinia mangiferae* (Felt), in Reunion Island. In: XXIV International Conference of Entomology, 2012-08-19/2012-08-25, Daegu, South Korea.
- Amouroux P.**, Normand F. 2010. Survey of mango pests on Reunion Island, with a focus on pests affecting flowering. In: 9th International Mango Symposium (book of abstracts), 2010-04-08/2010-04-12, Sanya, China.