

Jérôme N. Petit

Contact :
 jeromenpetit@yahoo.fr
 jerome.petit@iucn.org
 jerome@moorea.berkeley.edu

 T : +689 241136
 T : +33 (0) 385453359



Date of birth 28 December 1980

Nationality : French ; Swiss.

Languages : French (mother tongue);
 English (TOEFL 643/677);
 Spanish (professional).

Computing skills : Microsoft Office (Word, Excel, PowerPoint, Access); Dreamweaver;
 PhotoShop; Publisher; Illustrator; Premiere; MapInfo; ArcView, Drupal.

Areas of expertise: Biodiversity; Climate Change; Invasive species; Biological Control;
 Sustainable Agriculture; Forestry; European Environmental Policies;
 Cicadellids of French Polynesia; DNA barcoding.

Education:

- 2004** M.S. Political Sciences, Forestry and Sustainable Development
 University of Bordeaux Montesquieu (France)
- 2003** M.S. Environmental Sciences, Nature Conservation and Biodiversity Management
 Institut Supérieur d'Agriculture Rhône Alpes, Lyon (France)
- 2001** B.S. Agronomy, Agriculture and Rural Development
 Institut Supérieur d'Agriculture Rhône Alpes, Lyon (France)
- 2002** International Student Exchange in the University of Pamplona (Spain), 6 months

Employment record :

Sept 2008 - present University of California Berkeley, Gump station, Moorea (French Polynesia) - Program Coordinator and Communication Officer

Coordinates the Moorea Biocode project, a comprehensive inventory of all the terrestrial and marine organisms in the island of Moorea , with a genetic component. This project is supported by a 5.2 million USD grant over the next 3 years and involves more than 150 scientists. Responsible for the scientists' reception and the field trips coordination. Manages 2 technicians in 2 laboratories (molecular and morphological). Responsible for the communication and outreach components. Budget management.

Sept 2007 – Aug 2008 IUCN Regional Office for Europe, Brussels (Belgium) - Research Officer

Participated in the organization of the International Conference "The European Union and its Overseas Entities: Strategies to Counter Climate Change and Biodiversity Loss", an official event of the French Presidency of the European Union

(www.reunion2008.eu) with a budget of 1.8 million Euro.

Responsible for writing the conference's background document entitled "Climate Change and Biodiversity in the European Overseas Entities" (180 p). Coordinates a team of 5 contributing authors and puts together the effort of 120 contributors from research stations, NGOs, administrations and private sector. Presented the study's results in the plenary session of the conference.

**Mar 2005 -
Aug 2007** University of California Berkeley, Gump station, Moorea (French Polynesia) - Program Officer

Collaborated on a biological control program against the invasive pest *Homalodisca vitripennis*. Responsible for the risk assessment before the release of the biological agent *Gonatocerus ashmeadi*. Responsible for the study of the pest distribution, abundance and invasion dynamics on 20 islands of French Polynesia. Supervised 4 technicians from the Polynesian civil services for the biological agent rearing. Conducted the release of the biological agent on every infested island. Responsible for the communication on the program to the local communities, politics, medias, schools and universities. Completed an inventory of native cicadellids of Society Islands and provided DNA barcodes.

**Sep 2004 -
Feb 2005** European Parliament, Committee on Agriculture, Brussels (Belgium) - Research Assistant

Collected data on the European Biodiversity management in Forestry. Updated the biodiversity chapter of the internal document "Europe and Forest". Reporter of the UNESCO international conference "Biodiversity: Science and Governance" for the European Parliament Committee on Agriculture.

**Apr 2004 -
Aug 2004** Institut National de Recherche Agronomique (INRA), Laboratory of Biodiversity and Forest Ecology, Bordeaux (France) - Research Assistant

Conducted a meta-analysis on the effect of water stress on forests pest and diseases.

**Feb 2003 -
Aug 2003** Commonwealth Scientific and Industrial Research Organization (CSIRO) Biodiversity Unit, Darwin (Australia) - Research Assistant

Participated to the assessment of the impact of grazing on the biodiversity of tropical rangelands. Responsible for the collection and identification of ants at monitored sites and the definition of bio-indicators among ant species and functional groups. Exercised GIS methods, remote sensing techniques and multivariate statistical analysis.

**Jun 2002 -
Sep 2002** Institut de Recherche pour le Développement (IRD), Ouagadougou (Burkina Faso) - Research Technician

Participated to a project characterizing the biodiversity of soil-dwelling organisms under different cropping systems. Used soil respirometry methods. Responsible for the supervision of local interns and teaching of basic computing skills.

2001 Farm worker and analysis of the agricultural and economic activity of an intensive sheep and lavender farm in French Alps (3 months)

2001 Environmental Impact Assessment of a fruit juice factory, Lyon (France), 2 months

2001 Market study for a chocolate factory, Lyon (France), 2 months

2000 Market study for the implementation of a technology of animal reproduction, Paris (France), 2 months

Volunteer experiences:

- 2006** Realized a film for a national science fest with a Polynesian school on the topic of research on insects
- 2004-2007** Offered support lessons to disadvantaged children for several years
- 2001** Worked on a restoration project in Nepal, educating villagers and planting trees in a disturbed area to fight erosion (2 months)
- 1999-2001** Conducted a choir of twenty choristers for two years
- 2000** Taught homeless children with an association in Burkina Faso (2 months)
- 1999** Volunteer farm worker in Boulder Colorado (USA), 2 months
- 1996-1999** Volunteer camp councilor for several years

Publications:

Petit J. N., Prudent G. 2008. Climate Change and Biodiversity in the European Overseas Entities. IUCN Brussels, 180 pp

Petit J.N., Hoddle M.S, Grandgirard J., Roderick G.K, Davies N. 2008. When DNA barcoding competes with conventional taxonomical methods: a preliminary inventory of the leafhoppers (Hemiptera: Cicadellidae) from the Society Islands. *In preparation*

Petit J.N., Hoddle M.S, Grandgirard J., Roderick G.K, Davies N. 2008. Biocontrol success or biosecurity failure? Elucidating invasion pathways in a natural laboratory. *Submitted to Ecology Letters*

Petit J.N., Hoddle M.S, Grandgirard J., Roderick G.K, Davies N. 2008. Short-distance dispersal behavior and establishment of the parasitoid *Gonatocerus ashmeadi* (Hymenoptera: Mymaridae) in Tahiti: Implications for its use as a biological control agent against *Homalodisca vitripennis* (Hemiptera: Cicadellidae). *Biological Control* 45 (2008) 344–352

Grandgirard J., Hoddle M.S., **Petit J.N.**, Percy D., Roderick G.K., Davies N., 2007. Pre-Introductory Risk Assessment Studies for *Gonatocerus ashmeadi* (Hymenoptera: Mymaridae) for use as a Classical Biological Control Agent Against *Homalodisca coagulata* (Hemiptera : Cicadellidae) in the Society islands (French Polynesia). *Biocontrol Science and Technology* 17(8): 809-822

Grandgirard J., Hoddle M.S., Triapitsyn S.V., **Petit J.N.**, Roderick G.K., Davies N., 2006. First record of *Gonatocerus dolichocerus* Ashmead (Hymenoptera: Mymaridae) in French Polynesia, with notes on egg parasitism of the glassy-winged sharpshooter, *Homalodisca coagulata* (Say) (Hemiptera: Cicadellidae). *Pan-Pacific Entomologist*, in press

Grandgirard J., Hoddle M.S., Triapitsyn S.V., **Petit J.N.**, Roderick G.K., Davies N., 2006. First record of a *Centrodora* species (Hymenoptera : Aphelinidae) in Tahiti parasitizing the eggs of the glassy-winged sharpshooter, *Homalodisca coagulata* (Say) (Hemiptera: Cicadellidae), and observations of other parasitoids. *Pan-Pacific Entomologist*, in press

Hoddle M.S., Grandgirard J., **Petit J.N.**, Roderick G.K., Davies N. 2006. Glassy-winged sharpshooter Ko'ed - First round - in French Polynesia. *Biocontrol News and Information* 27(3)

Grandgirard J., Hoddle M.S., Roderick G.K., **Petit J.N.**, Percy D., Putoa R., Garnier C., Davies N., 2006. Invasion of French Polynesia by the Glassy-Winged Sharpshooter, *Homalodisca coagulata* (Hemiptera : Cicadellidae): A new threat to the South Pacific. *Pacific Science* 60(4):429-438

Jactel H., **Petit J.N.**, Piou D., Desprez-Loustau M.L. 2005. A meta-analysis of forest pest and disease response to water stress. *ECOFOR Freiburg International Symposium 17-19 Novembre 2004*

International Conferences:

IUCN Conference “The European Union and its Overseas Entities: Strategies to Counter Climate Change and Biodiversity Loss”, an official event of the French Presidency of the European Union, 7-11 July 2008, Réunion Island, France

Tropical Island Ecosystems and Sustainable Development Conference, December 4, 2006, Gump station, Moorea, French Polynesia.

Assise de la recherche française dans le Pacifique, novembre 2006, Papeete, French Polynesia

California Conference for Biological Control V, 25-27 July 2006, Riverside, CA, USA

13th Regional Technical Meeting on Plant Protection, 5-9 June 2006, Nadi, Fiji Islands

6 th International workshop on leafhoppers and planthoppers of economic significance, August 2005, Berkeley, California, USA

11 th Pacific Entomology Conference, 2005, Honolulu, Hawaii, USA

Impacts of the Drought and Heat in 2003 on Forests, International Symposium, 17-19 November 2004, Freiburg im Breisgau, Germany

Biodiversité: Science et Gouvernance, conférence internationale, 24-28 janvier 2005, UNESCO, Paris, France