

PhD Student in entomology



26 years - driving licence



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Education

- 2018 - Today** ● Doctorate in entomology - University of Pretoria (Pretoria, South Africa)
- 2018** ● DRU (University Research Diploma) - National Polytechnique Institut of Toulouse (France, 31)
- 2017** ● Master's degree in Environmental Toxicology with honors - University of Angers (France, 49)
- 2015** ● Bachelor's degree in Biology of organisms and populations - University of Angers (France, 49)
- 2013** ● Technical University Diploma of Environmental Biology - I.U.T of Caen (France, 14)



Professional experiences

- October 2018 to today** ● Doctorate – FABI (Forestry and Agricultural Biology Institute) – Pretoria (Pretoria, South Africa)
Referent: Gerda Fourie, DR, Senior Lecturer : gerda1.fourie@fabi.up.ac.za
 - Biology and management of *Bathycoelia natalicola* associated to macadamia orchards in South Africa
 - Population genetic, pesticide resistance, applied chemical ecology
- February to July 2018** ● Internship - CNRS EcoLab (Functional Ecology and Environment Laboratory) - Toulouse (France, 31)
Referent: Florence Mouchet, IR, ECI (UMR-CNRS 5245) : florence.mouchet@ensat.fr
 - Ecotoxicological evaluation of pharmaceutical products in *Xenopus laevis* and *Chironomus riparius*
 - Toxicology and genotoxicology assay, mesocosm approach
- July 2017 to January 2018** ● Engineer - INRA UEFM (Entomology and Mediterranean forests Unit) - Avignon (France, 84)
Referent: Jean-Claude Martin, IR, UEFM (UE 0348) : jean-claude.martin@inra.fr
 - Project manager in entomology applied to the protection of forest against lepidopteran pests
 - Research and development of biological pest control management
 - Management and monitoring of experiments in forests, statistical analyzes, scientific productions
- January to June 2017** ● Internship - INRA A&E (Bees and Environment Unit) - Avignon (France, 84)
Referent: Luc Belzunces, DR, LTE (UR 406) : luc.belzunces@inra.fr
 - Study of physiological alterations induced by pesticide mixtures on bees (*A. mellifera*)
 - Chronic toxicity tests, detoxification system analysis and histological observation
- Summer 2016** ● Lab Technician - INRA UEFM (Entomology and Mediterranean Forests Unit) - Avignon (France, 84)
Referent: Estelle Morel, IE, UEFM (UE 0348) : estelle.morel@inra.fr
 - Biological pest control against pine processionary and boxwood moth
 - Monitoring of experiments in forests, cartography and data upgrade
- April to June 2016** ● Internship - LPG BIAF (Laboratory Planetology, Geodynamics & BioIndicator Current and Fossil) - Angers (France, 49)
Referent: Emmanuelle Geslin, MdC-HDR, LPG-BIAF (UMR-CNRS 6112) : emmanuelle.geslin@univ-angers.fr
 - Spatial monitoring and study of the interaction between foraminifera and oysters in the mudflat
- Summer 2013** ● Lab Technician - INRA URFM (Mediterranean Forests ecology Research Unit) - Avignon (France, 84)
Referent: Thomas Boivin, CR, URFM (UR 629) : thomas.boivin@inra.fr
 - Faunistic identification of insect samples and mapping of a cedar forest patch

April to
June 2013

- Internship - INRA UEFM (Entomology and Mediterranean forests Unit) - Avignon (France, 84)
Referents: Jean-Claude Martin, IR, UEFM (UE 0348) : jean-claude.martin@inra.fr
Anne-Violette Lavoit, MCU, ISA-CEA (UMR UNS INRA 1355-CNRS 7254) : anne-violette.lavoit@inra.fr
- Study of different plant species naturally repellent against Gypsy moth



Publications and oral communications

Publications

- E. Pal et al. (2020). **Physiological alterations induced by mixture of pesticides in *A. mellifera***. (*in press*)
- E. Tabone, M. Venard, E. Colombel, E. Pal and J.-C. Martin (2018). **La science participative traque le papillon palmivore**. Phytoma, Juillet 2018 (715), 20-23.
- E. Pal et al. (2018). **Processionnaire du pin : un traitement bille en tête**. Phytoma, Juillet 2018 (715), 28-33.
- E. Pal et al. (2017). **Processionnaire du pin : le piégeage se perfectionne**. Phytoma, décembre 2017 (709), 26-29.
- E. Pal et al. (2014). **Testing naturally repulsive plant species against Gypsy moth attacks**. IOBC-WPRS Bulletin, 101, 213-220.

Posters

- E. Pal et al. (2019). **How do you preserve the macadamia nuts in South Africa from stink bugs?** French-South African Science and Innovation Days, Pretoria, December 2019.
- E. Pal et al. (2016). **Benthic foraminifera: A tool for assess ecological quality of marine waters**. Meeting OCEANEXT, Nantes, France, June 2016.

Oral

Communication

- E. Pal et al., **Testing the anti-feedant or repulsive potential of some hardwood trees against Gypsy moth attacks**. 7th meeting of OIBC-WPRS on the integrated protection of oak trees, L'Isle-sur-la-Sorgue, France, October 2013.



Skills

- **Office** : Microsoft Office (word, excel, Powerpoint), LaTeX
- **Chemistry**: Spectroscopy, GC-MS, electroantennography
- **Biochemistry** : Proteins and enzymatic assays, Biomarkers (metabolic and oxidative stress)
- **Biology** : Toxicology and genotoxicology assay, Biological control, insect rearing
- **Histology** : Paraffin, coloration (Hematoxyline - eosin)
- **SIG** : QGIS®
- **Data analysis** : R®, GraphPad Prism®



Personal interests

- **Cycling**
- **Trekking**
- **Running**
- **Arts**