

# Paul-Marie Grollemund

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*Postdoctoral Researcher in Statistics*

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## Position

09/17-08/18 **ATER**, IMAG, University of Montpellier.

07/14-09/14 **Statistician**, Lepse, Montpellier SupAgro.  
Data preprocessing

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## Education

2014-2017 **PhD Thesis in Statistics**, IMAG, University of Montpellier.

under the supervision of Christophe Abraham (Mistea, Montpellier SupAgro), Pierre Pudlo (I2M, Aix-Marseille University) and Meili Baragatti (Mistea, Montpellier SupAgro).

*Title: **Bayesian Linear Regression on Functional Data.***

Thesis defended the November 22th 2017, Manuscript (abstract) [here](#).

**Before the commission:**

- **Christophe Abraham**, Montpellier SupAgro, PhD Director
- **Meili Baragatti**, Montpellier SupAgro, Co-supervisor
- **Pierre Druilhet**, University Blaise Pascal, Examiner
- **André Mas**, University of Montpellier, Member of the commission
- **Éric Parent**, AgroParisTech, President of the jury
- **Anne Philippe**, University of Nantes, Member of the commission
- **Pierre Pudlo**, Aix-Marseille University, PhD Co-director
- **Judith Rousseau**, Université Paris Dauphine, Examiner

2011 - 2014 **Master**, University of Montpellier.

Mathematics, Statistics and Applications

2008 - 2011 **Bachelor**, University of Montpellier.

Mathematics

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## Internship

02/14-06/14 **Master Thesis**, Mistea, Montpellier SupAgro.

FLIRTI or a Bayesian Alternative.

Supervised by Christophe Abraham and Meili Baragatti

02/13-05/13 **Master Internship**, IMAG, University of Montpellier.

On the impact of the G-quadruplex pattern on the DNA replication.

Supervised by Jean-Michel Marin and Jean-Marc Lemaître.

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## Research Interests

Bayesian Statistics ★ MCMC methods ★ Regression Model ★ Functional Data ★ high dimensional statistics ★ Sparsity ★ Elicitation of prior knowledge ★ Posterior contraction ★ model misspecification

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🌐 <http://www.math.univ-montp2.fr/~grollemund/>

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## Teaching

- 2017-2018 **Lecturer and Teaching Assistant**, *University of Montpellier*.  
Medical School, Pharmacy School and Faculty of Sciences  
(192h)
- 2015-2017 **Teaching Assistant**, *Montpellier SupAgro*.  
(64h per year)

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## Publications and main communications

### Accepted Article

- Grollemund P.M., Abraham C., Pudlo P., Baragatti M. (2018) *Bayesian Functional Linear Regression with Sparse Step Functions*, *Bayesian Analysis*. Available here .

### Manuscripts in Preparation

- Abraham C. and Grollemund P.M. (2018) *Posterior Consistency for Bayesian Functional Linear Regression using Wald Approach*.
- Grollemund P.M., Abraham C., Pudlo P., Baragatti M. (2018) *Bayesian Approach using Expert's Opinion: Impact of Rainfall on Production of Périgord Black Truffles*.
- Le Tacon F., Murat C., Gravier J., Montpied P., Dupouey J.L., Grollemund P.M., Baragatti M. (2018) *Evolution of the Périgord black truffle (*Tuber melanosporum* Vittad.) production in the Vaucluse department (France) from 1903 to 1988. Influence of annual climatic variations and possible effects of climate changes or sociological factors*.

### Code R

- Implementation of the Bliss method available on GitHub here (R package in progress).

### Main talks

- 2018 ISBA World Meeting , Edinburgh, UK, June 2018.
- 50th Days of Statistics (SFDS), Saclay, France, May 2018.
- Team seminar, IRMAR, Rennes, France, April 2018.
- Network RIS, Paris, France, March 2018.
- Team seminar, LAREMA, Angers, France, March 2018.
- Team seminar, IMAG, Grenoble, France, March 2018.
- Team seminar, AgroParisTech, Paris, France, March 2018.
- Team seminar, I2M, Marseille, France, March 2018.
- Network Mexico, Montpellier, France, November 2017.
- 49th Days of Statistics (SFDS), Avignon, France, June 2017.
- Team seminar, AgroParisTech, Paris, France, October 2016.
- "Journées Mathinfo de l'INRA", Mallemort, France, October 2016.
- Workshop CRoNoS, satellite event of Compstat, Oviedo, Spain, August 2016.
- Workshop AgriBigData, Montpellier, France, July 2016.
- Team seminar, MIAT, Toulouse, France, January 2016.
- 47th Days of Statistics (SFDS), Lille, France, June 2015.

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## Supervision

Université de Montpellier, Pl. Eugène Bataillon – 34095 Montpellier – France

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2015 **Internship of a Master Degree student**, *University of Montpellier*.  
Louis Raynal, The Bayesian Lasso (Co-supervisor with Pierre Pudlo)

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## Community

- Reviewer for Digital Signal Processing
- Meet and Greet with high school students, Montpellier France, October 23th 2017
- Speaker at the "Science Festival", Montpellier France, October 9th 2017
- Co-organizer of the 5th meeting "Young Statisticians – Guest Lecturers", 48th Days of Statistics Montpellier France, 2016
- Organizer of the workshop "Bayesian Nonparametric Models", 2016
- Co-organizer of the seminars of Ph.D students (IMAG), 2016

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## Personal Information

Born on March 14th 1989

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**Website** <http://www.math.univ-montp2.fr/~grollemund/>

**Programming** R, C++

**Language** French (native) and English (professional)

**Skills** Curious, intent