Pierre-O. Goffard

UCSB

Departments of Statistics

and applied probability

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French, 27 years old



Assistant professor in applied mathematics

Professional experience

Since September Visiting Assistant Professor, University of California in Santa Barbara, Santa Barbara, 2016 USA.

2015–2016 Post-Doctoral fellow, Université Libre de Bruxelles, Brussels, Belgium.

Aug.-November **Post-Doctoral fellow**, *Aarhus university*, Aarhus, Denmark. 2015

2011–2015 **Ph.D. Student and junior actuary**, *Aix-Marseille university and AXA France (french partnership named convention CIFRE)*, Marseille, France.

Education

2011–2015 **Ph.D. in applied mathematics**, Aix-Marseille University and AXA France (french patnership named convention CIFRE), Marseille, France.

 $Polynomial\ approximations\ of\ probability\ density\ function\ and\ applications\ to\ insurance.$

Advisors: Denys Pommeret and Stephane Loisel.

2008–2011 Master of Science (M. Sc.), ENSAI, Rennes, France.

- Major: Advanced Statistical Engineering
- o Additional training (during the 3^{rd} year, 2010-2011): Master of statistics and econometrics at the *University of Rennes 1*, focused on scientific research, in tandem with ENSAI engineering degree.
- 2006–2008 **Classes Préparatoires**, *Dupuy de Lôme High School*, Lorient, *MP*. 2 years of intensive training in Math, Physics and Chemistry.

Skills

Technical Probability and statistics for finance and insurance (or anything else)

IT R Studio, SAS, Mathematica, Matlab, Java, HTML, CSS, Ruby, Markdown, $Late\chi$

Languages French (mother tongue), English (full professional proficiency), Spanish (notions).

Research Expertise

Risk theory, numerical methods, boundary crossing problem, stochastic processes...

Teaching experience

2015 **Teaching assistant**, *Aarhus University*, Aarhus, Denmark.

Bachelor in various fields

o Introduction to calculus (undergraduate class, 21h)

2013–2014 **Teaching assistant**, *ENSAI*, Rennes, France.

Master in statistical engineering

o Introduction to ruin theory (graduate class, 6h)

2011–2014 **Teaching assistant**, Aix-Marseille University, Marseille, France.

Bachelor of Biology

• Introduction to statistical analysis (undergraduate class, 30h)

Bachelor of mathematics applied to social science

Advanced probability and statistics (undergraduate class, 30h)

Master in actuarial science

Introduction to ruin theory (graduate class, 6h)

Publications

Accepted/Published

- 2015 P.O. Goffard & Xavier Guerrault, Is it optimal to group policyholders by age, gender, and seniority for BEL computations based on model points?, European Actuarial Journal.
- 2015 <u>P.O. Goffard</u>, Stephane Loisel & Denys Pommeret, A polynomial expansion to approximate the ultimate ruin probability in the compound Poisson ruin model, Journal of Computational and Applied Mathematics.
- 2015 <u>P.O. Goffard</u>, Stephane Loisel & Denys Pommeret, Polynomial approximations for bivariate aggregate claims amount probability distributions, Methodology and Computing in Applied Probability.

Submitted/under revision

- 2015 **Søren Asmussen, P.O. Goffard, & Patrick Laub**, Orthonormal polynomial expansion and lognormal sum densities, Working paper.
- 2016 **P.O. Goffard, & Claude Lefèvre**, Boundary crossing problem of order statistic point processes, Working paper.

Selected communications

- France 2016 3^{rd} European Actuarial Journal Conference, Lyon.
- France 2016 3^{rd} of yound researchers in probability, numerics and finance, Le Mans.
- France 2016 AMERISKA Conference, Paris.
- Belgium 2016 Joint ULB-UCL seminar, Brussels.
 - France 2016 Thematic week on dependence, extreme and actuarial science, Marseille.
 - UK 2015 CASS Business School Seminar, London.
- Denmark 2015 Thiele Seminar, Aarhus.
 - France 2015 Université d'été de l'institut des actuaires, Brest.
 - France 2015 PhD Thesis oral defense, Marseille.
 - UK 2015 19th International Congress on insurance, mathematics, and economics, *Liverpool*.
 - France 2014 $46^{\grave{e}me}$ journées de statistique, Rennes.
- Germany 2013 Conference on Advances in Financial and Insurance Risk Manangement, Munich.
 - France 2013 5ème Rencontre des Jeunes Statisticiens, Aussois.
 - France 2013 $45^{\grave{e}me}$ journées de statistique, *Toulouse*.
- Switzerland 2013 Perspective on Actuarial Risks in Talks of Young Researchers, Ascona.

Awards

France 2015 **SCOR** prize of the young doctor in actuarial science, Paris.

Refereing activities

Methodology and Computing in Applied Probability , MCAP.

Hobbies

Music Campfire guitar player

Sports Surf, windsurf, soccer