Sylvain Rubenthaler

Maître de conférences UCA (hors-classe, HDR)

25 novembre 1975

83, chemin René Pouchol
06670

+33 0651519528

https://math.unice.fr/~rubentha/

rubentha@unice.fr

About me

PACS, one daughter.

Skills(*)

English

Coding (C++,R,Python)

Teamwork

Teaching, oral presentations

Research in mathematics

(*)[Scale goes from 0 (basic level) to 6 (expert).]

Education

2010 — Université Nice-Sophia Antipolis — Nice
Habilitation à diriger les recherches (HDR).

1999-2002 — Université Paris VI — Paris
PhD in applied maths (radar tracking and numerical simulation of jump processes).

1997-1998 — Université Paris VI — Paris
Master in probability, specialization in stochastic calculus.

1996-2000 — Normale Sup (rue d'Ulm) — Paris
"Agrégation" in mathematics.

Publications

2003-2023 Twenty nine publications listed on MathSciNet.
2003-2022 Five course handouts (free access,licence CC BY-NC-SA 4.0) and a textbook.

Experience

2019-2023 — Scientific consulting — R&D
- «Crédit impôt-recherche» agreement
- "Auto-entreneur" (company name : Math·Innov)
→ Mathematic modelization with ExactCure on pharmacocinetics parameters identification problems.
→ Conception and implementation of a neural network predicting the power consumption of an electrical vehicule according to the driver's mood, for BeNomad.

2013-2016 — PhD advisor. — Enseignement
Stable algorithm for filtering in continuous time.

2005-2015 — Ongoing collaboration with HEC Montréal — Research
Two papers.

2013-2018 — Teaching management — Administration
First year of the "mathematical engineering" master.

2010-2011 — UBC — Research
Pacific Institute for the Mathematical Science, University of British Columbia, Vancouver (two papers)

2009 — Invited professor (one month) — Research
The Institute of Statistical Mathematics, Tokyo.

2008 — Invited researcher (2 months) — Research
SAMSI (Statistical and Applied Mathematical Sciences Institute), North Carolina. U.S.A.) and UNC (University of North Carolina at Chapel Hill) (un article)

2008 — Semester at INRIA Sophia Antipolis — Research
Neurobiology project (dtwo papers).

2003-2023 — Université Nice-Sophia Antipolis — Research and Teaching

Additional Informations

— Research field linked to applications : nonlinear filtering (radar tracking), particle algorithms (physics, mining industry), stochastic calculus for neurobiology, financial mathematics.
— Teaching in probability and statistics : time series, Monte-Carlo, machine learning at the university of Nice and at EDHEC.
— Versatile. I am experienced in various administrative tasks : recruiting, peer reviews, applying for grants (including CIR), etc.

Hobbies

Ski moutaineering and alpinism (founding memnber of «Team UCA Moutaineering» in my university). Guitar. Road bike.