# Marc Sabaté Vidales

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#### **EDUCATION**

PhD in Mathematics
THE UNIVERSITY OF EDINBURGH
Advisors: Lukasz Szpruch and David Siska

M.Sc in Mathematics
UNIVERSITAT POLITÈCNICA DE CATALUNYA
Thesis: Reconstruction of Phylogenetic trees using quartet method

B.S in Mathematics (Licenciatura)
UNIVERSITAT POLITÈCNICA DE CATALUNYA

Barcelona
Thesis: Politècnica DE CATALUNYA
Barcelona
ECOLE POLYTECHNIQUE FÉDÉRALE DE LAUSANNE (Erasmus exchange)

### EXPERIENCE

### EPCC (Edinburgh Parallel Computing Center)

2014-2019

Application Developer and Application Consultant

Edinburgh

- Consultant and developer in Machine Learning and Data Science projects in the context of finance, cybersecurity, energy and computer vision.
- Teacher assistant in the course HPC with data science.
- I co-supervised several MSc students' theses with industry partners.

Grupo AIA 2012-2014

Innovation Consultant Barcelona

 Consultant and developer in Operations Research, Machine Learning and Data Science projects in the context of finance and energy.

Atrapalo 2010-2012 SEM Data Analyst Barcelona

- Analysis and management of Google Adwords campaigns.

### PREPRINTS

- M Sabate Vidales, D Siska, L Szpruch, Unbiased Deep solvers for parametric PDEs, https://arxiv.org/abs/1810.05094
- 2. M B. Majka, M Sabate-Vidales, L Szpruch, Multi-index Antithetic Stochastic Gradient Algorithm, https://arxiv.org/abs/2006.06102
- 3. P Gierjatowicz, M Sabate-Vidales, D Siska, L Szpruch, Z Zuric, Robust pricing and hedging via Neural SDEs, https://arxiv.org/abs/2007.04154.

## TEACHING

• Tutor at The University of Edinburgh  Stochastic Modelling  Python Programming	Fall 2020
• Tutor at The University of Edinburgh  Stochastic Modelling  Proofs and Problems solving  Stochastic Control and Dynamic asset allocation	Spring 2020
• Tutor at The University of Edinburgh  Stochastic Analysis in Finance  Python Programming	Fall 2019
• Supervisor of MSc students' theses at The University of Thesis title: "Predicting sales through user preferences" Thesis title: "Retailer insights based on user preferences"	in collaboration with the industrial partner Mallzee.
Thesis time. Retuner insignis busen on user preferences	add in collaboration with the madstrial partner Malizee.
	SKILLS
Programming	
PROGRAMMING  • Programming and tools: Python, R, LaTeX, Git,	SKILLS  • Languages: Catalan and Spanish (Native), English an
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PROGRAMMING  Programming and tools: Python, R, LaTeX, Git, SQL.  Machine Learning: PyTorch, Scikit-Learn  SCHOLARSHIPS AND AWARDS	<ul> <li>SKILLS</li> <li>Languages: Catalan and Spanish (Native), English an French (Fluent).</li> <li>Piano Studies from 1995-2010.</li> </ul>
PROGRAMMING  Programming and tools: Python, R, LaTeX, Git, SQL.  Machine Learning: PyTorch, Scikit-Learn	<ul> <li>SKILLS</li> <li>Languages: Catalan and Spanish (Native), English an French (Fluent).</li> <li>Piano Studies from 1995-2010.</li> </ul>