Baptiste Kerleguer

PHD STUDENT IN STATISTICS

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Education

Ecole Polytechnique Paris-Saclay, France

PHD IN MATHEMATICS Sep. 2019 - Sep. 2022

Paris-Saclay, France Sep. 2018 - Apr. 2019

Paris-Saclay, France

Sep. 2016 - Jun. 2018

Sep. 2015 - Jul. 2016

Apr. 2019 - Sep. 2019

May 2017 - Sep. 2017

- Under the supervision of Josselin Garnier and Claire Cannamela
- · Multi-fidelity Surrogate models for uncertainty quantifiction in a high dimension context.
- At the Centre des mathématiques Appliquées with funding of the CEA

Ecole Normale supérieure Paris-Saclay (ENS Paris-Saclay)

MASTER IN MATHEMATICS

• Master Mathématique, Vision, Apprentissage

• Inverse problems for Images, Reinforcement learning, Image denoising, Sub-pixel image processing, Geodesic methods for image analysis, Biostatistics...

Université Paris-Saclay / ENS Paris-Saclay

MASTER IN COMPUTER SCIENCE AND ENGINEERING

• Major in computer sciences and applications minor in electrical engineering.

ENS Paris-Saclay, France

Bachelor of Science
 Major in Electrical Engineering with minor in Civil Engineering and mechanical Engineering.

Experiences _____

CEA - DAM

Arpajon, France

PHD STUDENT Sep. 2019 - Sep. 2022

· Uncertainty quantification research group

CEA - DAM

Arpajon, France

INTERN IN UNCERTAINTY QUANTIFICATION

• Involved in Uncertainty Quantification for computer experiment team.

• Work on Multi-Fidelity surrogate modeling with Claire Cannamela and Josselin Garnier.

Université de Sherbrooke Sherbrooke Sherbrooke, Canada

INTERN IN NANO-DEVIS SIMULATION

Under the supervision of Maxime Darnon.

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• I was a part of a simulation/experimentation campaign on quantum dots.

Teaching _____

Algorithms for Discreate Mathematics Ecole Polytechnique, France

TEACHING ASSISTANT Sep. 2019-Jan. 2022

Bachelor of science 2nd year

Preparation training for engineering program at Ecole Polytechnique Ecole Polytechnique, France

MATHEMATICS TEACHER Jan. 2020-Mar. 2022

Numerical methods for ODEs

Ecole Polytechnique, France

TEACHING ASSISTANT Mar. 2021-Jun. 2022

Bachelor of science 3rd year

November 4, 2021 Baptiste Kerleguer · Résumé

Communications _____

2021	B. Kerleguer (2021), Multi-fidelity surrogate modeling for Time-Series, arXiv preprint arXiv:2109.113741v1	In review
Talks		
Sep. 2021	ETICS Summer school PhD talk, Multi-fidelity surrogate modeling for high dimension outputs	Erdeven, France
Jun. 2021	UNCECOMP, Technical session, Multi-fidelity surrogate modeling for time-series outputs	Streamed from Athens, Greece
Jun. 2021	Numerical analysis Summer school 2021 on Multi-fidelity approaches, with Claire Cannamela	Paris, France
Jun. 2021	Presentation at Journées de statistiques de la SFdS , Multi-fidelity surrogate modeling for time-series outputs/ Surrogate model combining Gaussian process and Bayesian neural network.	Nice, France
Sep. 2020	ETICS Summer school presentation , Multi-fidelity surrogate modeling for high dimension outputs	Oléron, France
Mar. 2020	SIAM UQ contributed talk CANCELLED due to COVID-19, Multifidelity Gaussian process metamodel for time-dependant outputs	Munich, Germany

Others_____

2021	Member of the scientific committee , Congrès des jeunes chercheurs et chercheuses en	Palaiseau, France
2021	mathématiques appliquées	raiaiseau, riance
2018	Agregation of Engineering/Computer Science, 3rd Place	France
Cinca 2000 Breating of sailing		English Channel
Since 2009 Practice of sailing ,		and Atlantic Ocean