Baptiste **Kerleguer toot**

PHD STUDENT IN STATISTICS

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Education

Ecole Polytechnique
Paris-Saclay, France

PHD IN MATHEMATICS
Sep. 2019 - Sep. 2022

- 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)
Paris-Saclay, France

MASTER IN MATHEMATICS
Sep. 2018 - Apr. 2019

- 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
Paris-Saclay, France

MASTER IN COMPUTER SCIENCE AND ENGINEERING
Sep. 2016 - Jun. 2018

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

ENS Paris-Saclay
Paris-Saclay, France

BACHELOR OF SCIENCE
Sep. 2015 - Jul. 2016

- 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
Apr. 2019 - Sep. 2019

- Involved in Uncertainty Quantification for computer experiment team.
- Work on Multi-Fidelity surrogate modeling with Claire Cannamela and Josselin Garnier.

Université de Sherbrooke
Sherbrooke, Canada

INTERN IN NANO-DEVIS SIMULATION
May 2017 - Sep. 2017

- Under the supervision of Maxime Darnon.
- 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

Communications

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/ Bayesian neural network. *Nice, France*

Sep. 2020 **ETICS Summer school presentation**, Multi-fidelity surrogate modeling for high dimension outputs *Oléron & Erdeven, France*
Sep. 2021

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 mathématiques appliquées *Palaiseau, France*

2018 **Agregation of Engineering/Computer Science**, 3rd Place *France*