



BASTIEN ARCELIN

DATA SCIENTIST

EXPERIENCE

PhD in cosmology

Université de Paris | Oct 2018 - now

- Solutions implementation for the issue of overlapping galaxies using Bayesian deep learning methods (generative models, convolutional and Bayesian neural networks) for image processing.
- Data analysis, formatting and visualisation.
- Scientific papers publication as well as the thesis "Bayesian deep learning for weak gravitational lensing analyses: overlapping galaxies separation and galaxy parameters estimation from blended scenes".
- Organiser of the « Bayesian deep learning for cosmology and gravitational waves » workshop (March 2020, 70 participants).
- International and interdisciplinary collaborations (computer science and cosmology).

Nuclear engineer

ORANO (ex AREVA NP) | February 2014 - September 2017

- Study of accidental situations for the writing of reports and arguments for french nuclear safety agencies.
- Simulations of accidental situations (hydraulic codes MANTA and CATHARE), data analysis and formatting.
- Research and proposal of new accidental situations for particular areas of the primary system.

Nuclear safety engineer

ASSYSTEM | September 2013 - January 2014

- Study of the impact of the power supply loss for the Taishan EPR.

EDUCATION

NPAC research master's degree (Nuclei, Particles, Astroparticles and Cosmology)

Université de Paris (75) | September 2017 - July 2018

Engineer master's degree (Systems and Technologies for nuclear power plants)

Mines de Nantes | September 2010 - July 2013

CONTACT

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SKILLS

- Data analysis
- Lead research project
- Independent
- Concise communication of results
- Supervision

COMPUTING

- Python
- Tensorflow
- GitHub
- Java

LANGUAGE

- English