Camille BESOMBES

*Artificial intelligence research scientist
looking for a job opportunity.*

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in Besombes Camille

Professional

July 2022 – Now
Research assistant, *McGill University - Research department in dentistry.*, Montréal, Quebec, Canada, .
Development of computer vision algorithm to detect oral cancer from photographic images.
- Implementation of SOTA algorithm in python.
- Uncertainty quantification and explainability applied to deep learning.
- Research communication.
- Code maintenance using versioning software such as git.

December 2021 – September 2018
PhD on deep learning applied to physics, *CERFACS, TotalEnergies*, Toulouse, France.
- Programming of generative adversarial network applied to data assimilation for reservoir characterization and atmospheric circulation.
- Published paper in Non-linear Processes in Geophysics (NPG) (see Publications section).
- Experience in complete data science software suite : Tensorflow/Keras (Generative network development), pandas, scikit-learn. . .
- Communication skills with scientific and industrial audience.
- Implementation of AI literature : U-nets, Resnets, generative networks, attention-based models. . .

September 2018 – April 2018
Research internship in deep learning applied to geosciences, *CERFACS, TotalEnergies*, Toulouse, France.
- Preliminary work that led to my PhD project.
- Learning scientific literature on computer vision, generative networks, optimization.
- Interaction with an industrial (TotalEnergies). Understanding their problematic and requirements.
- Participation in scientific data science challenges.
- Mastering of programming environment : Unix, Git, python, supercomputers, notebook, cloud computing. . .

August 2017 – June 2017
Research internship in fluid-structure interactions., *Queen's University*, Belfast, United Kingdom, .
- English work environment.
- Coupling fluid-structure simulator.

July 2016 – June 2016
Internship in web development, *Happy people 31*, Toulouse, France, Website development.
- Small work team environment and interaction with designers and database engineers.
- Independent learning of the web programming languages HTML, CSS, PHP and MySQL.

Publications

○ Publication in Non-linear Processes in Geophysics (NPG) : *Producing realistic climate data with generative adversarial networks.* (doi : 10.5194/npg-28-347-2021)

Education

2015–2018 **Fluid dynamics and hydrodynamics**, *Engineering school at INPT-ENSEEIHT*, Toulouse, France.
Numerical simulation and modeling specialization

2013–2015 **Classes Préparatoires aux Grandes Écoles**, *Lycée Camille Jullian*, Bordeaux, France, Physics and Chemistry specialization.

2012–2013 **Baccalauréat scientific specialization**, *Lycée Anatole de Monzie*, Bazas, France, With distinctions.

Skills

Professional : Used to work in teams of various sizes. Fast learning skills and autonomy.

Theoretical : Knowledge in physical simulator, statistics and mathematics

Informatic : Linux environment, Git, Docker, Python, Matlab, Office pack, LateX, Markdown.

Data science : Tensorflow, Keras, Pytorch, Pandas, Scikit-learn, HDF5 format, Seaborn, Matplotlib...

Linguistic : French, English.

Hobbies

● Sport ● Technologies ● Voyage ● Stand-up comedy ● Music ● Programming