Guillaume Chérel, Ph.D.

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Freelance

Scientific software engineer

Experience Scientific computing

2021	**Freelance**	Automated testing for a question answering system (docker, Python, haystack).
2021	**Freelance**	Set up a cloud-based search engine (Elasticsearch, AWS, Java)
2017-2020	**Research Engineer** *CNRS, Institut des Systèmes Complexes - Paris*	Designed a bayesian algorithm for simulation, Contributed to the software development of the simulation platform OpenMOLE (Scala), Designed and implemented simulation experiments.
2016-2017	**Research Engineer** *Inria - Paris*	Estimated mobile users noise exposure (Python).
2013-2014	**Research Engineer** *CNRS, ISCPIF - Paris*	Designed scientific model calibration algorithms Contributed to a scientific software library (Scala).
2009	**Engineer** *CNRS, Bioemco - Paris*	Modeled the spatial dynamics of the savanna plant population.
2008-2009	**Engineer** *IRD - IFI, Vietnam*	Developed scientific model calibration algorithms

Ph.D. Emergence in complex systems simulation applied to ecology

2010-2013	**Ph.D. candidate** *UPMC - Bioemco - Paris*	Modeling of the spatial dynamics of the savanna plant population.
		Emergence: conceptualization and application to simulation.

Training Artificial Intelligence & Cognitive Sciences

2016-2019	**Self-study** *MOOCs, books...*	Statistics, probability, linear algebra, category theory.
2008	**Master** *Sorbonne University - Paris*	Machine learning, multi-agent systems.
2006	**Licence** *Université Lumière - Lyon 2*	Cognitive Sciences

Teaching Computer science

2010-2013	**Computer Science Licence** *Sorbonne University - Paris*	Programming: C, Scheme, Unix/Shell.

Technical skills

Data analysis & modeling	Python, R, SQL, Shell.
Software development	Scala, Haskell, Java, C, C++, git.

English	Fluent	*French*	Native