

RENAUD DESSALLES - QUANTITATIVE BIOLOGY

GENERAL

Birth	1989
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PRESENTATION

With an education background in engineering and research background, I have gained an expertise in various scientific domains. I'm specialized in probabilistic, statistics and deterministic methods, as well as simulations applied in to various areas of Biology. I've worked in collaborations with biologists and physicists in an international environment. I have a strong taste in applying my theoretical expertise to new domains of Biology for me.

WORK EXPERIENCES

2017-2019 – Post-Doc in Mathematics and Physics applied to Immunology (UCLA, USA).
2017-2019 – Teaching workshops: *Intro. to Python ; Machine Learning ; Python Hackathon* (UCLA, USA)
2013-2016 - PhD in Applied Mathematics (INRA and INRIA, France)
2015-2016 - Teaching Mathematics and Computer Science (IUT Sceaux, France)
2013 - Internship of 4 months in LCQB lab (UPMC -Paris) in theoretical microbiology
2012 - Internship of 4 months in SMILE lab (Collège de France - Paris) in ecology and evolution
2011 - Internship of 4 months in INSERM lab U1001 on systemic biology

List of articles and conferences, see my webpage (<https://dessalles.github.io/>)

SKILLS

Mathematics: Probabilistic and deterministic modeling, mathematical analysis and simulations, statistical models, data processing (daily use); Machine Learning (taught).
Computers: UNIX – Python – LaTeX – Suite Office: daily use and taught.
C – C++ – HTML5 – Julia – Matlab: proficient.
Languages: French (native language); English (fluent, 2 ans in USA) ;
German (working knowledge), Spanish (beginner continuing education)

Software created in Python : RFigure et AthenaWriter (details on my website <https://dessalles.github.io/>).

DIPLOMAS

2017 – Doctorat : *Mathématiques appliquées à la biologie des systèmes* (INRA et INRIA, France).
2013 – Master degree, *Mathematics for Biology* (Université ParisSud, France)
2012 – Engineering degree : specialty *Systems Modeling* (ENSTA ParisTech, France)
2012 – Master degree : *Numerical Analysis and Partial Differential Equations* (UPMC, France)

GRANTS AND AWARDS

September 2017: Best poster award at UCLA QcBio Annual Retreat
January 2017: Fellowship from the Institute for Quantitative and Computational Biosciences at UCLA (renewed every 6 months)
December 2013: Highly selective grant *Contrat Jeune Scientifique* (INRA–INRIA) for five years
July 2013: Selective PhD grant of Labex Calsimlab (UPMC), (declined)

ASSOCIATIVE AND LEISURE

Associations: Author, Editor and Translator on the web magazine *Kinea* (<https://kinea.media/>); Tutoring students from disadvantaged backgrounds for 3 years.
Leisure: Swimming, Running, Climbing, Trekking, Astronomy, Photography, Writing, History, Popular Sciences...