

Mélodie Monod

CONTACT DETAILS

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EDUCATION

Imperial College London, London, United Kingdom 2019-2023
PhD in Statistics
Part of the EPSRC Centre for Doctoral Training in Modern Statistics and Statistical Machine Learning at Imperial and Oxford
Supervisor: (First) Dr. Oliver Ratmann, (Second) Prof. Samir Bhatt, (Third) Dr. Matthew Hall

Imperial College London, London, United Kingdom 2018-2019
Master of Science in Statistics
Final Grade: Distinction
MSc thesis: “Bayesian reconstruction of epidemic transmission chains from viral deep-sequence data”
Relevant Modules: Bayesian Methods, Applied Statistics, Biomedical Statistics, Statistical Genetics and Bioinformatics, Computational Statistics, Advanced Simulation Methods, Machine Learning

University of Geneva, Geneva, Switzerland 2015-2018
Bachelor of Science in Economics and Management
Final Grade: 5.71/6, **Class Rank:** First out of > 100 students
Relevant Modules: Algebra, Analysis, Probability, Statistics, Numerical Methods, Theoretical and Applied Econometrics

EXPERIENCE

Novartis, Basel, Switzerland 06/2021 - 09/2021
Advanced Explanatory Analysis Intern
Supervisor: Dr. Sebastian Weber

University of Geneva, Geneva, Switzerland 07/2017 - 09/2017
Summer Research Assistant
Centre for Interprofessionnal Simulation (CiS)
Supervisor: Dr. Bernard Cerutti

PROGRAMMING SKILLS

Languages:

- **R**
- **Stan**
- **L^AT_EX**

Open source code:

- Code for analysis of [1] and [2] is available at <https://github.com/ImperialCollegeLondon/covid19model>

AWARDS	<p>EPSRC CDT in Modern Statistics and Statistical Machine Learning Scholarship 2018 Imperial College London, London, United-Kingdom</p> <p>The Department of Mathematics Scholarship for the MSc Statistics 2018 Imperial College London, London, United-Kingdom Awarded for academic excellence and ability to continue into a postgraduate research degree.</p> <p>Highest overall grade average of the Bachelor’s Degree in Economics and Management - Major Economics 2018 University of Geneva, Geneva, Switzerland</p>
SELECTED PUBLICATIONS	<p>[1] Seth Flaxman et al. “Estimating the effects of non-pharmaceutical interventions on COVID-19 in Europe”. In: <i>Nature</i> 584.7820 (2020), pp. 257–261. DOI: 10.1038/s41586-020-2405-7.</p> <p>[2] Mélodie Monod et al. “Age groups that sustain resurging COVID-19 epidemics in the United States”. In: <i>Science</i> 371.6536 (Feb. 2021), eabe8372. DOI: 10.1126/science.abe8372.</p>
TALKS	<ul style="list-style-type: none"> • StanCon 2020, August 13 2020. • COVID-19 Dynamics & Evolution Webinar Series, University of California San Diego, October 19 2020. • Banff International Research Station for Mathematical Innovation and Discovery, November 10 2020.
LANGUAGES	<p>French : Native Speaker English : Fluent Italian : Beginner</p>