

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: Dr. Oliver Ratmann

Relevant Modules: Bayesian Modelling and Computation, Statistical Machine Learning, Modern Statistical Theory

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

University of Geneva, Geneva, Switzerland 07/2017 - 09/2017
Summer Research Assistant

Centre for Interprofessionnal Simulation (CiS)

Supervisor: Dr. Bernard Cerutti

We investigated the impact of interprofessional teaching on medical students’ performance. All analyses were conducted on R.

TEACHING EXPERIENCE

Imperial College London, London, United Kingdom 10/2020 - 12/2020
Graduate Research Assistant in Introduction to Computing

This module provides an introduction to computation and programming in Python.

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>
- Code for data scraping and processing of [2] is available at <https://github.com/ImperialCollegeLondon/US-covid19-agespecific-mortality-data>

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>
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. URL: https://doi.org/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>medRxiv</i> (2020). DOI: 10.1101/2020.09.18.20197376. URL: https://www.medrxiv.org/content/early/2020/09/22/2020.09.18.20197376.</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</p>
INTERESTS	<ul style="list-style-type: none"> • Sport <ul style="list-style-type: none"> – Running, 10km in 2017, half-marathon (21.097km) in 2018 at the "Harmony Geneva Marathon for Unicef" – Swimming, 1250m open water swim in 2017 at "La Fluctuat - Paris" – Horse riding, "Galop 7" (second degree), won national competitions from 2010 to 2015 – Badminton, team winner of Paris and 4th of the French region Ile-de-France in 2011 • Music: Played the guitar for 6 years