

# Rémi de Fleurian

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## SKILLS

### PROGRAMMING

R • Python • Git •  $\text{\LaTeX}$  • Java

### STATISTICS

Modeling • Machine learning • Inferential statistics • Mixed-effects models • Generalized linear models • Bootstrapping • Time-series • Design of experiments

## LINKS

Website: [remidefleurian.com](http://remidefleurian.com)

LinkedIn: [remidefleurian](https://www.linkedin.com/in/remidefleurian)

Scholar: [kH6xaHsAAAAJ](https://orcid.org/0000-0001-9452-9452)

Github: [remidefleurian](https://github.com/remidefleurian)

OSF: [f2jgd](https://osf.io/f2jgd)

## RESEARCH

### PUBLICATIONS

2020: [PsyArXiv](https://arxiv.org/abs/2008.00000)

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2019: [PNAS](https://www.pnas.org/lookup/suppl/doi:10.1073/pnas.1911111116/-/DCSupplemental)

2017: [Cogn. Sci.](https://www.sciencedirect.com/science/article/pii/S0010028517300000)

### PRESENTATIONS

2019: [SMPC](https://www.smpc.org/) at NYU

2019: [SEMPRE](https://www.sempre.org/) at Cambridge

2018: [DMRN](https://www.dmrn.org/) at QMUL

2018: [EiTIC](https://www.eitic.org/) at UPF

2015: [ESCOM](https://www.escom.org/) at RNCM

## COURSEWORK

### GRADUATE

Applied Statistics

Computational Statistics

Inferential Statistics

Machine Learning

Data Analytics

Research Methods

Creative Coding

Music Cognition

Neuroscience

### ONLINE

Data Scientist with R

Data Analysis with Python

Data Visualization

Machine Learning

## EDUCATION

### PHD IN COGNITIVE SCIENCE 2016 - 2021

QMUL, School of Electronic Engineering and Computer Science

Conducted research for dissertation on expectation and chills in music, combining behavioural, physiological, and computational methods:

- Comprehensive **critical review** of 170+ publications on chills in music
- Aggregation of a **1000-track dataset** for a **computational analysis** of Spotify API data using PCA, logistic regression, and mediation analysis in R, and showing effects of track valence on chills
- Design of bespoke R (Shiny) and Python (OpenSesame) software for a longitudinal study, analysing physiological data using bootstrapping in R, and showing effects of repetition and stylistic preference on chills

Disseminated research outcomes in various formats:

- Three **journal articles** and four **presentations** in international conferences
- Online publication of all **data** and **scripts** in a commitment to open science

Taught workshops for academic staff and classes for graduate students:

- Workshops on **statistics**, **online data collection**, **tidyverse**, and **ggplot2**
- Lectures on  $\text{\LaTeX}$  and **statistics with R** for the Research Methods module
- Guest lecture on **music and emotion** for the Music Cognition module

### MSC IN MUSIC, MIND & BRAIN 2012 - 2013

Goldsmiths, Department of Psychology

Conducted research on information-theoretic measures of rhythm complexity:

- Design of a set of 48 rhythmic stimuli to run a **behavioural experiment** showing effects of entropy rate and Kolmogorov complexity on prediction accuracy

### BSC IN OSTEOPATHIC STUDIES 2009 - 2012

British School of Osteopathy

## EXPERIENCE

### HOUSE OF GREENLAND DEC 2015 - MAR 2020

Data Manager (part-time) | Apr 2019 - Mar 2020

Addressed the video production start-up's growing need for data-driven insights and automation of recurrent tasks:

- Integration of timesheet, capacity, and billing data from multiple Google Sheets
- Design of project dashboard ensuring accurate tracking of remaining budget
- Development of R scripts for monthly reports of company-wide time allocation

Operations Manager (part-time) | Oct 2016 - Mar 2019

Producer | Dec 2015 - Sep 2016

### THE GUARDIAN JUL 2019 - SEP 2019

Google News Initiative Fellow

Selected as one of 40 GNI Fellows from 800+ applicants to join a newsroom for a data journalism internship, helping the Guardian's Visuals and Data teams with:

- Text collection, cleaning, and mining in R (tidytext) for story on **Queen's Speech**
- Fast-paced analysis of key insights for live news on **A-level** and **GCSE** results
- Data collection and visualization for stories on **Amazon fires** and **driving tests**
- Extensive data cleaning and exploratory research for General Election news

### PROJECT EDUCATION OCT 2014 - NOV 2015

Educational Consultant