# Rémi de Fleurian

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## LINKS

Web: remidefleurian.com
Lnk: remidefleurian
Git: remidefleurian
Sch: kH6xaHsAAAAJ
OSF: f2jgd

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## SKILLS

**Programming**
R, Python, SQL, Git

**Statistics**
Machine Learning
Modeling (HMM, GMM, GLME)
Inferential statistics
Nonparametric statistics
Time-series analysis
Design of experiments

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## RESEARCH

**Publications**
2020: Preprint
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2019: PNAS
2017: Cognitive Science

**Presentations**
2019: SMPC at NYU
2019: SEMPRE at Cambridge
2018: DMRN at QMUL
2018: EiTIC at UPF
2015: ESCOM at RNCM

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## 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

QMUL, Department of Computer Science
**PhD in Cognitive Science**, 2021 (in progress)
Conducted research for dissertation on modeling chills in music:
- Systematic review of 170+ publications on chills
- Aggregation of 1000-track dataset for computational analysis of Spotify API data, showing effects of valence on chills
- Design of bespoke R/Python software for longitudinal study, using physiological data to show effects of musical content
- Aggregation of 2000-chills dataset for predictive modeling of timing of chills from acoustic and syntactic properties, resulting in ML system which can predict chills from audio

Led workshops for research staff and classes for graduate students:
- Workshops on stats, tidyverse, ggplot2, remote computing, etc.
- Lectures on LaTeX and stats with R for Research Methods module
- Guest lecture on music and emotion for Music Cognition module

Goldsmiths, Department of Psychology
**MSc in Music, Mind, and Brain**, 2013
Research on information-theoretic measures of rhythm complexity:
- Design of rhythmic stimuli to run experiment showing effects of entropy rate and Kolmogorov complexity on rhythm prediction

British School of Osteopathy
**BSc in Osteopathic Studies**, 2012

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## EXPERIENCE

Alliance for Downtown New York
**Data Fellow** (P/T), Jan 2021 – Present
Selected as 2021 Fellow to work on data-related tasks:
- Automation of yearly matching process between buildings databases for property tax calculation, resulting in increased accuracy and reduced need for manual checking
- Extraction and harmonization of data from various sources for interactive map estimating pedestrian activity in Downtown NY

House of Greenland
**Data Manager** (P/T), Apr 2019 – Mar 2020
Handled need for data-driven insights and recurrent task automation:
- Integration of timesheet, capacity, and billing data
- Design of project dashboard to ensure accurate budget tracking
- Automation of monthly reports for company-wide time allocation

**Operations Manager** (P/T), Oct 2016 – Mar 2019
**Producer**, Dec 2015 – Sep 2016

The Guardian
**Google News Initiative Fellow**, Jul 2019 – Sep 2019
Selected as one of 40 GNI Fellows from 800+ applicants for a data journalism internship with the Guardian's Visuals and Data teams:
- Text mining for interactive story on Queen's Speech
- Data collection and visualization for various stories
- Fast-paced analysis of key insights for live news

Project Education
**Educational Consultant**, Oct 2014 – Nov 2015