

Rémi de Fleurian

Data Scientist

Contact

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Profiles

👤 remidefleurian.com
🌐 remidefleurian.com/linkedin
🐙 remidefleurian.com/github
🔗 remidefleurian.com/scholar
📦 remidefleurian.com/osf

Skills

- R
 - Wrangling: tidyverse, zoo
 - Analysis: tidymodels, lme4, boot
 - Visualization: ggplot2, leaflet
 - Scraping: httr, rvest
 - Publishing: R Markdown, Shiny
- Python
 - Wrangling: numpy, pandas
 - Modeling: sklearn, pomegranate
 - Publishing: Jupyter
- MATLAB
 - Research: MiningSuite, GooseLab
- SQL
 - Relational data manipulation
- Tools
 - Version control: Git
 - Typesetting: LaTeX
 - Power analysis: G*Power
- Analysis
 - Machine learning
 - Data modeling
 - Inferential statistics
 - Nonparametric statistics
 - Time-series analysis
 - Design of experiments

Publications

- 2021: de Fleurian & Pearce, The relationship between valence and chills in music: A corpus analysis. *i-Perception*
- 2020: de Fleurian & Pearce, Chills in music: A systematic review. Submitted to *Psychological Bulletin*
- 2019: de Fleurian et al., Reward prediction tells us less than expected about musical pleasure. *PNAS*
- 2017: de Fleurian et al., Information-theoretic measures predict the human judgment of rhythm complexity. *Cognitive Science*

Conferences

- 2019: SMPC at NYU
- 2019: SEMPRES at Cambridge
- 2018: DMRN at QMUL
- 2018: EiTIC at UPF
- 2015: ESCOM at RNCM

Education

PhD in Cognitive Science – 4.0 GPA ————— expected 2021
Queen Mary University of London, Department of Computer Science

- Conducted research on the statistical modeling of affective responses to music
 - Systematic review of 167 publications on chills in music
 - Currently in third round of peer review with first-ranked psychology journal
 - Aggregation of dataset for computational analysis showing effects of valence on chills
 - Spotify API data for 1k tracks paired with control tracks via Euclidean distance matching for PCA, mediation, and regression analyses conducted in R
 - Study of behavioral and physiological data showing effects of musical content on chills
 - Longitudinal behavioral data collected with bespoke R Shiny questionnaire, paired with chills data collected with wearable device using Arduino and MATLAB, linked to Python UI for continuous reports of chills and analyzed with bootstrapping in R
 - Aggregation of dataset for predictive modeling of timing of chills from audio properties
 - Extraction of 40m+ rows of acoustic and musical features for 2k chills with MATLAB for comparison of model performance between HMMs and SVMs using Python and permutation tests with R, resulting in first-ever predictive model of chills in music

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

- Completed coursework focused on quantitative, programming, and research skills
 - Machine Learning, Applied Stats, Computational Stats, Inferential Stats, Data Analytics
 - Research Methods, Creative Coding, Neuroscience, Music Cognition

MSc in Music, Mind, and Brain – 4.0 GPA ————— 2013
Goldsmiths, University of London, Department of Psychology

- Conducted research for thesis on information-theoretic measures of rhythm complexity
 - Experiment showing that complexity measures predict performance on rhythm prediction
 - Algorithmic design of rhythmic stimuli for rhythm prediction behavioral task, comparing prediction performance of complexity measures with mixed-effects logistic regression

BSc in Osteopathic Studies ————— 2012
British School of Osteopathy

Relevant experience

Data Science Fellow ————— part-time, Jan 2021 – Present
Alliance for Downtown New York New York, NY

- Selected as 2021 Fellow to work on data-related tasks
 - Automation of yearly matching process between buildings databases for property tax calculation, increasing accuracy and eliminating need for two-month-long manual process
 - Extraction and harmonization of data from various public and private sources for new visualizations of pedestrian activity in Downtown Manhattan

Data Journalism Fellow ————— Jul 2019 – Sep 2019
The Guardian London, UK

- Selected by Google for a data fellowship with the Guardian's Visuals and Data teams
 - Text mining and analysis for interactive story on Queen's speech
 - Background research and data visualization for various stories
 - Fast-paced analysis of key insights for live news

Senior Data Analyst ————— part-time, Apr 2019 – Mar 2020
House of Greenland London, UK

- Handled need for data-driven insights and recurrent task automation
 - Integration of timesheet, capacity, and billing data
 - Design of project dashboard template to ensure accurate budget tracking
 - Automation of monthly reports for company-wide time allocation

Other experience

Senior Operations Coordinator – House of Greenland, UK — part-time, Oct 2016 – Mar 2019
Producer – House of Greenland, UK ————— Dec 2015 – Sep 2016
Educational Consultant – Project Education, UK ————— Oct 2014 – Nov 2015