

# Martina Sladekova

M.Sc., B.A. (Hons).

[martinasladek.co.uk](http://martinasladek.co.uk)

---

## Profile

A doctoral researcher in psychology studying the application of robust statistical methods as a means of improving the credibility of findings in psychology, combining a range of methodologies, including large-scale reanalyses of existing research data, natural language processing with machine learning, data simulation, and online surveys of statistical practice.

Teaching experience includes developing and running research training workshops, delivering research methods and statistics seminars, supporting statistics and R practicals, co-supervision of undergraduate students, and one-to-one research methods and statistical analysis support.

---

## Higher education

### **PhD Psychology | University of Sussex** **Sept 2020 - Sept 2023**

**In progress**

- Thesis: The role of robust statistical methods in the credibility revolution of psychological science
- Funding: +3 fully-funded Advanced Quantitative Methods SeNSS ESRC studentship
- Supervisor: Professor Andy P. Field

### **MSc Cognitive Neuroscience | University of Sussex** **Sept 2018 - Aug 2020**

**Distinction**

- Dissertation: Estimating the change in meta-analytic effect size estimates after the application of publication bias adjustment methods  
Preregistration: <https://osf.io/kxjs3>

### **BA (Hons) Applied Psychology and Criminology | University of Brighton** **Sept 2014 - June 2017**

**First class**

- Dissertation: When the effect precedes the cause: The influence of video game exposure on the use of timing representations in temporal perception
- 

## Research

**Sladekova M.**, Webb, L. E. A., & Field, A. P. [manuscript under review]. Estimating the change in meta-analytic effect size estimates after the application of publication bias adjustment methods. <https://osf.io/kxjs3>

**Sladekova M.**, & Field A. P. [manuscript in preparation]. The role of robust statistical methods in psychology (review).

Avery R. A. T., Kamar, M., **Sladekova, M.**, & Field, A. P. [manuscript in preparation]. How has the last decade influenced meta-analytical reporting and practice quality? <https://osf.io/7zyvc>.

**Sladekova M.** & Field, A. P. [data collection completed]. Statistical practice in psychology: To what extent do the applied researchers understand and attend to the assumptions of the models they fit?

**Sladekova M.**, Jakeman, H., & Field A. P. [pilot study completed]. Data and models in psychology: Evaluating the robustness of statistical findings in published research.

**Sladekova M.**, & Field A. P. [data collection in progress]. Evaluating the Reporting Practice in Psychology Using Natural Language Processing.

Collins, L., Terry, J., Pownall, M., & Jones, A., **Sladekova, M.** [data collection in progress]. PhD Psychology students' perceptions, understanding, and experiences of open science.

---

## Research skills and technical skills

- Statistical analysis using R, SPSS, JASP, JAMOVI.
  - Multilevel Bayesian modelling with *{brms}*
  - Application of advanced meta-analytic methods
  - Data simulation
  - Development of interactive web-applications with R & Shiny
  - Web-scraping with *{R Selenium}*
  - Working knowledge of Python
  - Working knowledge of Natural Language Processing and machine learning using logistic regression and the Naïve Bayes algorithm
  - Survey building and recruitment with Qualtrics
  - Programming computer experiments with SuperLab and Open Sesame
  - Active engagement in Open Science practices (OSF profile: <https://osf.io/vq6rm/>)
  - Conducting reproducibility checks ([tinyurl.com/de-leeuw-et-al-review](https://tinyurl.com/de-leeuw-et-al-review))
- 

## Employment

### Present employment

Sept 2017 - date	Psychology Technician	University of Brighton, School of Applied Social Science
Sept 2020 - date	Doctoral Tutor	University of Sussex, School of Psychology

### Past employment

Sept 2015 - Aug 2017	Student Staff	University of Brighton Students' Union
July 2016 - Aug 2017	Archive Project Team Worker	Brighton College
Sept 2015 - June 2016	Student Services Ambassador	University of Brighton Student Services
July 2015 - Sept 2015	Stock Assistant	Aldi, Brighton

---

## Teaching experience

- Development and delivery of research training workshops for staff and students
  - Running research methods seminars and SPSS workshops for undergraduate students
  - Supporting statistics and R practicals for undergraduate and postgraduate students
  - Co-supervision of undergraduate students
  - One-to-one research methods and statistical analysis support for psychology staff and students
  - Advanced Higher Education Associate Fellowship (in progress)
- 

## Scholarships and awards

- +3 fully-funded Advanced Quantitative Methods SeNSS ESRC studentship - top-ranked AQM application (2020 - 2023)
  - University of Sussex Chancellor's Master's Scholarship (awarded - declined; 2017)
  - [BPS Technical Support in Psychological Teaching Award \(2020\)](#)
  - University of Sussex Prize for Best Performance on the MSc Cognitive Neuroscience (2020)
-