

Curriculum Vitae

MSc Roxana Hofmann

Ph.D. candidate at the University of Edinburgh interested in computational behavioural science;
personality variability and nuances; gender identities and sexualities

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Education

- 2022-
present **PhD Psychology**, University of Edinburgh
Dissertation title: Nuancing gender in psychology
Supervisors: René Möttus (University of Edinburgh) and Sandra Matz (Columbia University)
- 2022 **Summer Institute for Computational Social Science**, École Polytechnique, Paris
Coursework included Principles of Text and Data Mining in R, Ethics of AI, Advances in Natural Language Processing, Randomized Digital Experiments
- 2022 **Visiting Scholar**, Columbia University, New York
Research included analysis of data from global positioning systems (GPS) to explore the relationship between behavioural patterns of mobility and personality characteristics
- 2020-2021 **MSc Psychological Research**, University of Edinburgh (Grade: With Distinction)
Dissertation title: A data smoothing approach to improve validity and reliability in personality questionnaire responses (Grade: 78)
Coursework included Univariate and Multivariate Statistics, Psychological Research Skills, Problem-based Social Psychological Research, Issues and Concepts in Digital Society
- 2019-2020 **Visiting Student**, University of Edinburgh
Coursework included Sociology of the Arts, Popular Music, Technology and Society, Criminology, History of Art 2B, Approaches to Visual Culture
- 2016-2020 **BSc Psychology**, University of Leipzig (Grade: 1.0)
Dissertation title: A comparison of two approaches for testing the homogeneity of longitudinal covariance structures (Grade: 1.0)
Coursework included Psychological Methodology and Diagnostics, Personality, Social, Clinical, Work and Organisational Psychology
- 2016 **Abitur (matriculation exam)**, Albert-Einstein-Gymnasium Magdeburg (Grade: 1.0)

Professional Positions

- 2022-present **Teaching Assistant**, University of Edinburgh
Supervisors: Dr. Umberto Noe (Department of Psychology)
Tutoring first to third year students weekly in basic as well as advanced concepts of data analysis using R, conducting labs and lab exercises, marking reports and exams
- 2020 **Research Intern**, University of Edinburgh
Supervisor: Dr. René Möttus (Department of Psychology)
Assisted in recruiting participants, statistically analysing personality nuances using network analysis and developing psychological questionnaires for assessing these nuances
- 2019 **Research Assistant**, University of Münster
Supervisor: Prof. Dr. Steffen Nestler (Chair of Statistics and Psychological Methodology)
Assisted in developing an R package for estimating longitudinal covariance structures
- 2018 **Research Intern**, University of Leipzig
Supervisor: Prof. Dr. Steffen Nestler (Chair of Psychological Methodology)
Assisted in simulating and empirically analysing intensive, longitudinal time series data using multilevel modelling, structural equation modelling, and dynamic factor analysis in R
- 2017-2018 **Research Assistant**, University of Leipzig
Supervisor: Prof. Dr. Steffen Nestler (Chair of Psychological Methodology)
Assisted in reviewing literature, recruiting and communicating with participants, implementing and monitoring two large daily diary studies, designing and translating questionnaires, conducting statistical data analysis in R, presenting findings at conferences
- 2017-2018 **Teaching Assistant**, University of Leipzig
Supervisors: Dr. Florian Scharf and Dr. Richard Rau (Chair of Psychological Methodology)
Tutored first-year students weekly in univariate and multivariate statistics and programming in R, reviewed statistical concepts taught in lectures, prepared and assessed assignments

Publications

- 2018 **Hofmann, R.**, Dauter, J., & Nestler, S. (2018). How useful is the Big Five model in describing intraindividual fluctuations in states across time? Presented at the 51st congress of the German Psychology Association in Frankfurt, Germany.

Training

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| 2021 | Online Course: Machine Learning in Practice (by DataCamp) |
| 2018 | Workshop: Missing Data (by Simon Grund) Workshop: Big Data (by Steffen Nestler and Florian Scharf) Online Course: Introductions to Python and SQL (by Udacity) |
| 2017 | Workshop: Complex Online Surveys Using formr.org (by Ruben Arslan) Workshop: Unipark Survey-Software for Advanced (by Mark Haupt) |

Teaching

Statistics and Psychological Methodology

Data Analysis in Psychology in R 1

Data Analysis in Psychology in R 3

Languages and Skills

English, German, Bulgarian

R, Python, L^AT_EX

Awards and Accomplishments

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| 2022 | Center for Research in Economics and Statistics (CREST) Funding to attend a two-week summer school at Ecolé Polytechnique, Paris |
| 2020 | Graduated Among the Best 5 %, BSc Psychology, University of Leipzig |
| 2019 | German Street Dance Champion, United Dance Organisation Scottish Street Dance Champion, United Dance Organisation |
| 2018 | Bertelsmann Data Science Challenge Scholarship Recipient |
| 2016 | Best Mathematics Abitur, German Mathematics Association |

Community Involvement

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| 2021-2022 | Volunteer Exhibition Assistant at Talbot Rice Gallery Volunteer Community Engagement Assistant at Hidden Door Arts |
| 2021 | Volunteer Event Assistant at Art27 |
| 2017 | Volunteer Dance Instructor to raise donations for the Leipzig Refugee Council |

Selected research projects in progress

1. **Hofmann, R.**, Rozgonjuk, D., & Möttus, R. Nuancing sex and gender differences in personality. (Department of Psychology, University of Edinburgh; Faculty of Social Sciences and Education, University of Tartu; and Department of Molecular Psychology, University of Ulm)
2. **Hofmann, R.**, Freiberg, B., Peters, H., Kosinski, M., Möttus, R., & Matz, S. Beyond binary gender: The psychological spectrum of gender and behaviour. (Computational Behavioural Science Lab, Columbia Business School, Columbia University and Department of Psychology, University of Edinburgh)
3. **Hofmann, R.**, Peters, H., & Matz, S. Gender inequalities in physical mobility. (Computational Behavioural Science Lab, Columbia Business School, Columbia University)
4. Chatelein, A., **Hofmann, R.**, Lecoursionnais, M., Kamel, D., Herbert, C., Ollion, É. Misogyny in popular music. (Center for Research in Economics and Statistics, Ecolé Polytechnique; Department of Psychology, University of Edinburgh; Center for Analytical Sociology, Linköping; Department of Sociology, University of Cambridge)
5. **Hofmann R.** & Llewellyn, C. Enriching exhibitions with computational social science methods. (School of Social and Political Science, University of Edinburgh, Yale and Oxford)
6. Baltiansky, D., **Hofmann, R.**, Davidai, C., & Matz, S. Beliefs about income and happiness. (Computational Behavioural Science Lab, Columbia Business School, Columbia University)