

# Julian Quandt

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[Website](#) • [Google scholar](#) • [OSF](#) • [Github](#)

## Research interests

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belief updating | coherence of belief systems | confidence and metacognition | evaluative changes and attentional processes | data simulation and power analysis of mixed-effects models | bayesian statistics | open research methods

## Education and Employment

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- Senior Scientist, Postdoc** | Institute for Cognition and Behavior, WU Vienna University of Economics and Business (AT) since 2025  
*Postdoc Researcher on a special research area funding (SFB) by the Austrian Science Fund (FWF), focusing on (incoherent) belief systems and belief updating dynamics.*
- Senior Scientist, Postdoc** | Competence Center for Experimental Research, WU Vienna University of Economics and Business (AT) 2023-2025  
*Laboratory manager of the WULABS, overseeing participant recruitment system, IT infrastructure (including developing Eye-Tracking Routines), Advising on experimental research  
Member of the Institute for Cognition and Behavior*
- PhD candidate** | Behavioural Science Institute, Radboud University (NL) 2017-2023  
Advisors: Prof. Dr. Harm Veling, Prof. Dr. Rob W. Holland, Dr. Bernd Figner  
Topic: *Confidence in Value-Based Decisions and Evaluations and its Relation to the Variation in past Value-Relevant Experiences*
- MSc Research Master Behavioural Science** | Radboud University (NL) 2015 – 2017  
Advisor: Prof. Dr. Harm Veling  
Thesis: *The role of attention in explaining the no-go devaluation effect: Effects on appetitive food items (published)*  
Graduated with GPA 8.7 (cum laude)
- BSc Psychology** | Radboud University (NL) 2011 – 2014  
Advisor: Prof. Dr. Johan Karremans  
Thesis: *Why Attractive Opposite-Sex People are Rewarding but not Approached: A Dual-Process Approach*  
Graduated with GPA 7.9 (bene meritum) in the Honours Program

## Teaching and Supervision Experience

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- Statistics 2** 2020  
Role: Course Coordination Assistance (350 students): instructing tutors, coordinating exam grading, assisting in programming online exams and automatic grading  
Curriculum: 2<sup>nd</sup> year bachelor program psychology
- Minor Research Project**  
2019  
Role: Supervision (2 students)  
Curriculum: 6 months research internship in the first year of the Behavioural Science Research Master program
- Programming Skills: Python** 2018 – 2020  
Role: Tutorials and Grading (40-60 students)  
Curriculum: Elective Course in the Behavioural Science Research Master program  
Content: Introduction to Computer Science, the Python programming language, and the development of Experiments in PsychoPy
- Master Thesis Supervision** 2018 – 2019  
Role: Supervisor (3 students)  
Curriculum: graduation thesis in the Master program Behavior Change
- Bachelor Thesis Supervision** 2017 – 2022  
Role: Supervisor (4 – 6 students per year)  
Curriculum: graduation thesis in bachelor program Psychology
- Psychometrics and Decision Theory** 2015  
Role: Tutor (groups of 20 – 30 students)  
Curriculum: 2<sup>nd</sup> year bachelor program psychology  
Content: Descriptive & normative decision-models / Factor-Analysis / Bayes-Theorem
- Statistics 2** 2013 – 2016  
Role: Tutor (groups of 20 – 30 students)  
Curriculum: 2<sup>nd</sup> year bachelor program psychology  
Content: Multivariate Statistics in SPSS
- Statistics 1** 2012 – 2015  
Role: Tutor (groups of 20 – 30 students)  
Curriculum: 1<sup>st</sup> year bachelor program psychology  
Content: Classical test theory and univariate statistics

## Organizations and Committees

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### Research Groups

- Behavior Regulation and Change lab, Behavioural Science Institute, Radboud University since 2016  
Decision making, Development, and Psychopathology lab, Behavioural Science Institute, Radboud University since 2017  
Mixed-Effects Modelling Group, Donders Institute for Brain Behaviour and Cognition, Radboud University 2018 – 2021

### Committees

- Scientific Rigor Committee at the Behavioural Science Institute since 2021

## Publications

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### Peer Reviewed Publications

- Quandt, J.**, Holland, R. W., Chen, Z., & Veling, H. (2019). The role of attention in explaining the no-go devaluation effect: Effects on appetitive food items. *Journal of Experimental Psychology: Human Perception and Performance*, 45(8), 1119.
- Chen, Z., Holland, R. W., **Quandt, J.**, Dijksterhuis, A., & Veling, H. (2019). When mere action versus inaction leads to robust preference change. *Journal of Personality and Social Psychology*, 117(4), 721.
- Veling, H., Chen, Z., Liu, H., **Quandt, J.**, & Holland, R. W. (2020). Updating the p-curve analysis of Carbine and Larson with results from preregistered experiments. *Health Psychology Review*, 14(2), 215-219.
- Chen, Z., Holland, R. W., **Quandt, J.**, Dijksterhuis, A., & Veling, H. (2021). How preference change induced by mere action versus inaction persists over time. *Judgment and Decision Making*, 16(1), 201-237.
- Quandt, J.**, Figner, B., Holland, R. W., & Veling, H. (2022). Confidence in evaluations and value-based decisions reflects variation in experienced values. *Journal of Experimental Psychology: General*, 151(4), 820.
- Liu, H., Holland, R. W., Blechert, J., **Quandt, J.**, & Veling, H. (2022). Devaluation of NoGo stimuli is both robust and fragile. *Cognition and Emotion*, 1-18.
- Veling, H., Becker, D., Liu, H., **Quandt, J.**, & Holland, R. W. (2022). How go/no-go training changes behavior: A value-based decision-making perspective. *Current Opinion in Behavioral Sciences*, 47, 101206.
- Liu, H., **Quandt, J.**, Zhang, L., Kang, X., Blechert, J., van Lent, T., Holland, R. W., & Veling, H. (2025). Shaping food choices with actions and inactions with and without reward and punishment. *Appetite*, 208, 107950.

### Other Publications

[Standard Operating Procedures for Using Mixed-Effects models](#)

[Power analysis by data simulation for \(almost\) any design in R](#)

## Invited Talks and Workshops

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### Simulating Power in Mixed-Effects Models

Audience: R-Ladies Birmingham, Psycholinguistics Group, Birmingham University  
Form: 1-hour workshop

July 2024

### Power Analysis by Data Simulation in R

Audience: Behavioural Science Institute members (faculty and students)  
Form: 3-hour workshop with introductory talk and tutorials

April 2022

### The Statistics War: Bayesians vs. Frequentists

Audience: Faculty members of the Social Sciences Faculty of Radboud University  
Form: 1-hour introductory talk on the debate about Bayesian vs. frequentist hypothesis testing methods

April 2021

### Extending the Statistical Toolbox

Audience: PhD conference at the Behavioural Science Institute  
Form: 15-minute introductory talk on developments in statistical methods

November 2019

### Open Science and Preregistration

Audience: Starting PhD students at the Behavioral Science Institute  
Form: 10-minute introductory talk for

October 2019 | 2020 | 2021

### Introduction to Bayesian Statistics

Audience: Research Master students  
Form: 90-minute lecture and 1 hour programming tutorial in R

April 2018

### The Statistics War: Bayesians vs. Frequentists

Audience: Faculty members of the Social Cognition Group (March) and Communication Science Group (May)  
Form: 40-minute introductory talk on the debate about Bayesian vs. frequentist hypothesis testing methods

March 2018 | May 2018

## Skills and Interests

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### Programming Languages and Software

Proficient: R, Python, Psychopy, JavaScript, JsPsych  
Competent: html, css, PHP, Stan, ORSEE

### IT and software projects (examples)

Software to allow researchers to conduct (online) Eye-Tracking Experiments without coding  
Automatic Eye-Tracking Calibration Routine for WULABS  
Pipeline to collect journal article metadata, convert to PDF and test statistics (including LLM-based analysis)  
Data Collection Backend for JsPsych Experiments  
Server Administration of Participant databases at WULABS  
Development of a php app to counterbalance conditions in online experiments and to encrypt / decrypt participant identifiers and data

### Research Methods

Open Science  
Bayesian Statistics  
Multilevel and Mixed-Effects modelling  
Data simulation and power analysis

## References

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**Prof. Dr. Harm Veling**

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**Prof. Dr. Rob Holland**

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Behavioural Science Institute, Radboud University  
6525 GD Nijmegen, Netherlands  
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**Dr. Bernd Figner**

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