

# Julian Kauk

## CURRICULUM VITAE

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### Personal details

Date of birth January 02, 1995  
Place of birth Chemnitz  
Nationality German

### Education

#### Studies

2021 – now  
October  
**PhD candidate**, *University of Jena, Jena, Germany.*  
Topic: *'Flatten the curve' of misinformation: Epidemic models as a promising framework for studying the spread and containment of low-credibility information in social networks;* supervised by Prof. Dr. Stefan Schweinberger and Prof. Dr. André Scherag

2018 – 2021  
October September  
**Master of Science in Psychology (course specialisation: Cognitive Psychology and Cognitive Neuroscience)**, *University of Jena, Jena, Ø 1.0.*  
Thesis: *Understanding and countering the spread of conspiracy theories in social networks: Evidence from epidemiological models of Twitter data (1.0);* supervised by Dr. Helene Kreysa and Prof. Dr. Stefan Schweinberger

2014 – 2018  
October September  
**Bachelor of Science in Psychology**, *University of Magdeburg, Magdeburg, Ø 1.3.*  
Thesis: *Investigating Stochastic Resonance in the Human Auditory System (1.0);* supervised by PD Dr. Tino Zähle and Prof. Dr. med. Markus Ullsperger

#### School

2010 – 2014  
October September  
**High-school certificate**, *Technisches Gymnasium Chemnitz, BSZ für Technik II, Chemnitz, Ø 1.5.*  
Advanced courses: Data processing technology and german literature

### Experience

#### Teaching

2022 – 2022  
April October  
**Lecturer**, *Department of General Psychology and Cognitive Neuroscience, Institute for Psychology, University of Jena, Jena.*  
Seminar 'Understanding and countering the spread of misinformation in social networks: Insights from cognitive models, simulations and empirical data'

2018 – 2021  
October February  
**Tutor for multivariate statistics**, *Department of Methodology and Evaluation Research, Institute for Psychology, University of Jena, Jena.*  
Lectured a tutorial about methods of multivariate statistics for bachelor students.

2016 – 2017 **Tutor for descriptive statistics**, *Institute for Psychology, University of Magdeburg, Magdeburg.*  
October February

Lectured a tutorial about methods of descriptive statistics for bachelor students.

2015 – 2016 **Head of study group**, *IGS Willy Brandt (secondary school), Magdeburg.*  
October April

Led a study group for younger students who were interested in psychology.

Vocational

2019 – 2019 **Research assistant**, *Research group neuropsychology, Department of Neurology, Jena university hospital, Jena.*  
July December

Administration of neuropsychological tests with patients who suffered from multiple sclerosis and dementia.

2016 – 2018 **Research assistant**, *Section Neuropsychology, Department of Neurology, University of Magdeburg, Magdeburg.*  
June August

Performed quantitative data analysis and administered experiments in the field of auditory and transcranial electric stimulation research.

2017 – 2017 **Research assistant**, *Department of Child and Adolescent Psychiatry and Psychotherapy, University of Magdeburg, Magdeburg.*  
May December

Software developer for research projects addressing questions regarding to electrophysiological correlates of emotions.

Internship

2017 – 2017 **Trainee**, *Psychological Department, Fachklinik Satteldüne, Amrun.*  
July September

2016 – 2016 **Trainee**, *Section Neuropsychology, Department of Neurology, University of Magdeburg, Magdeburg.*  
March April

Volunteering

2015 – 2017 **Member of student representatives**, *University of Magdeburg, Magdeburg.*  
October September

Represented students' interests in several committees of the university.

## Reviewing for scientific journals

PLOS ONE

## Scholarships and grants

2022 – 2024 Landesgraduiertenstipendium (Doctorate scholarship), funded by the State of Thuringia, Germany  
January December

## Languages

German **Native language**

English **Fluently**

Russian **Elementarily**

## Computer skills

Basic SQL, Gimp

Intermediate MATLAB, SPSS, HTML, PHP, Javascript, Neurobs Presentation

Advanced R, L<sup>A</sup>T<sub>E</sub>X, Python

## Publications

### Articles

- Kauk, J., Kreysa, H., & Schweinberger, S. R. (2021). Understanding and countering the spread of conspiracy theories in social networks: Evidence from epidemiological models of twitter data. *PLOS ONE*, *16*(8), 1–20. doi:10.1371/journal.pone.0256179
- Rufener, K. S., Kauk, J., Ruhnau, P., Replinger, S., Heil, P., & Zaehle, T. (2020). Inconsistent effects of stochastic resonance on human auditory processing. *Scientific Reports*, *10*(1), 1–10.

### Book chapters

- Kauk, J., Kreysa, H., Voigt, A., & Schweinberger, S. (in press). Verschwörungsdenken - Zwischen Populärkultur und politischer Mobilisierung. In F. Hessel, P. Chakkarath, & M. Luy (Eds.), (Chap. #flattenthecurve: Wie begrenzen wir die Welle von Falschinformationen und Verschwörungserzählungen in digitalen sozialen Netzwerken?). Gießen: Psychsozial-Verlag.

### Posters

- Kauk, J., Rufener, K. S., Ruhnau, P., Heil, P., Heinze, H.-J., & Zaehle, T. (2018). Acoustic noise and transcranial random noise stimulation (trns) of auditory cortex equally enhance hearing sensitivity via stochastic resonance, *Psychologie und Gehirn 2018*, Gießen.
- Rufener, K. S., Keute, M., Kauk, J., Heinze, H., & Zaehle, T. (2017). P 102 Domain-specific effects of transcranial random noise stimulation (tRNS) on auditory feature processing. (Vol. 128, *10*, e379). Elsevier.

## Presentations

### Keynotes

- Kauk, Julian. (2022). #flattenthecurve: Modelling the diffusion and containment of misinformation in social networks via epidemic models, 16th Summer Academy on 'Innovation, Digitalization and Sustainability', University of Jena.

### Talks

- Kauk, J. (2022). #flattenthecurve: Cognitive models and empirical findings as mainstays in the containment of misinformation and conspiracy theories, Workshop 'Recognize, name conspiracy theories, and (re)act correctly in the professional field', Protestant University Dresden.
- Kauk, J. (2021). 'Flatten the curve' of misinformation: Epidemic models as a promising new framework for studying the spread and containment of lowcredibility information in social networks, 6th International Symposium on Systems Biology of Microbial Infections, Leibniz Association.
- Kauk, J. (2021). Understanding and countering the spread of conspiracy theories in social networks: Evidence from epidemiological models of Twitter data + Promoting Science in Social Media, Research Seminars in General Psychology and Cognitive Neuroscience, University of Jena.

## Conference Visits

- Jena Schumpeter Center for Research on Socio-Economic Change. (2022). 16th Summer Academy on 'Innovation, Digitalization and Sustainability', University of Jena.
- Leibniz Institute for Natural Product Research and Infection Biology Hans Knöll Institute. (2021). 6th International Symposium on Systems Biology of Microbial Infections, Leibniz Association.
- Deutsche Gesellschaft für Psychologie. (2018). 44. Tagung Psychologie und Gehirn in Gießen, University of Gießen.
- PsyFaKo e.V. (2015). Psychologie-Fachschaften-Konferenz in Hamburg, University of Hamburg.

## Media Coverage

### Newspapers & Press (Selection)

- Brühl, U. (2021). Mathematische Parallelen von Fake News und Epidemien. <https://kurier.at/wissen/gesundheit/mathematische-parallelen-von-fake-news-und-epidemien/401473960>. Retrieved: 09/20/2021. Kurier Zeitungsverlag und Druckerei GmbH.
- Busse, V. (2021). Parallelen zwischen der Verbreitung von Verschwörungstheorien und Infektionskrankheiten. <https://idw-online.de/de/news774267>. Retrieved: 08/20/2021. Friedrich Schiller University Jena.
- Haug, C. (2021). Fakenews-Pandemie: Fakt-Checking besser als Löschen. <https://www.mdr.de/wissen/fakenews-verbreitung-wie-viren-epidemiologisches-modell-uni-jena-100.html>. Retrieved: 08/20/2021. Mitteldeutscher Rundfunk.
- Murgia, M. (2021). Ways to make social media less 'viral'. <https://www.ft.com/content/b9ed8ce4-4fb0-4ef3-ae0b-95ea37368d16>. Retrieved: 12/20/2021. Financial Times.
- n-tv NACHRICHTEN. (2021). Wie bei Infektionskrankheiten: So verbreiten sich Verschwörungstheorien. <https://www.n-tv.de/wissen/So-verbreiten-sich-Verschwörungstheorien-article22746037.html>. Retrieved: 08/20/2021. ntv Nachrichtenfernsehen GmbH.

### Radio

- Krauter, R., & Kohlenbach, L. (2021). Forschung aktuell 16.08.2021 (Wissenschaftsmeldungen). [https://podcast-mp3.dradio.de/podcast/2021/08/16/wissenschaftsmeldungen\\_16082021\\_dlf\\_20210816\\_1654\\_77929c91.mp3](https://podcast-mp3.dradio.de/podcast/2021/08/16/wissenschaftsmeldungen_16082021_dlf_20210816_1654_77929c91.mp3). Retrieved: 08/20/2021. Deutschlandfunk.

## Supervised Theses

- Voigt, A. (2022). *Vertrauen in Faktencheck-Organisationen: Eine systematische Analyse von vertrauenswirksamen Faktoren* (Institute of Psychology, University of Jena). Bachelor thesis.