

Hannes Rosenbusch

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PROFESSIONAL EXPERIENCE**Appinio** (01.06.2021 – today)

Data Scientist

Build analysis tools, pipelines, dashboards, and statistical models; Supervise junior staff and interns

University of Amsterdam (15.05.2021 – today)

Assistant Professor

Research, teaching, and administrative work in behavioral data science

Tilburg University (01.08.2017 – 15.05.2021)

Ph.D. research on “Computational methods in the behavioral sciences” (highest distinction)

Supervisors: Prof. Marcel Zeelenberg & Dr. Anthony Evans

Abstract: We investigate how unstructured data, optimization algorithms, and machine learning can benefit behavioral research. Further, we develop multiple software solutions (code packages and applications) for meta science.

EDUCATION**Summer Institute in Computational Social Science (2018, Helsinki)****Summer School on "Decisions, Laws, and the Big Data Revolution" (2017, Haifa)****University of Groningen**

Research Master in Behavioral and Social Sciences | Track: Social and Organizational Psychology

Grade Average: 8.9 (1 – 10)

University of Queensland

Psychology/Non-award program

Grade Average: 6.75 (1 – 7)

Leuphana University

B.Sc. Business Psychology

Grade Average: 1.6 (6 – 1)

PROFESSIONAL PUBLICATIONS

The recurring themes in my work include computational research methods, machine learning, software, development, and analyses of unstructured data. I also served as a reviewer for Cyberpsychology and the Journal of Computational Social Science. Next to scientific outlets my work has been featured in popular science media like Science Daily and Psychology Today.

Rosenbusch, H., Evans, A. M., & Zeelenberg, M. (2019). Multilevel emotion transfer on YouTube:

Disentangling the effects of emotional contagion and homophily on video audiences. *Social Psychological and Personality Science*, 10(8), 1028-1035.

Rosenbusch, H., Wanders, F., & Pit, I. L. (2020). The Semantic Scale Network: An online tool to detect semantic overlap of psychological scales and prevent scale redundancies. *Psychological Methods*, 25(3), 380–392.

- Rosenbusch, H., Hilbert, L. P., Evans, A. M., & Zeelenberg, M. (2020). StatBreak: Identifying “lucky” data points through genetic algorithms. *Advances in Methods and Practices in Psychological Science*, 3(2), 216-228.
- Rosenbusch, H., Röttger, J., & Rosenbusch, D. (2020). Would Chuck Norris certainly win the Hunger Games? Simulating the result reliability of battle royale games through agent-based models. *Simulation & Gaming*, 1046878120914336.
- Rosenbusch, H., Evans, A. M., & Zeelenberg, M. (2020). Interregional and intraregional variability of intergroup attitudes predict online hostility. *European Journal of Personality*, 34(5), 859-872.
- Rosenbusch, H., Aghaei, M., Evans, A. M., Zeelenberg, M. (2020). Psychological trait inferences from women’s clothing: Human and machine prediction. *Journal of Computational Social Science*, 1-23.
- Rosenbusch, H., Soldner, F., Evans, A. M., Zeelenberg, M. (2021). Supervised machine learning methods in psychology: A practical introduction with annotated R code. *Social and Personality Psychology Compass*, e12579.
- Greijdanus, H., de Matos Fernandes, C. A., Turner-Zwinkels, F., Honari, A., Roos, C. A., Rosenbusch, H., & Postmes, T. (2020). The psychology of online activism and social movements: Relations between online and offline collective action. *Current Opinion in Psychology*, 35, 49-54.
- Evans, A. M., Stavrova, O., & Rosenbusch, H. (2021). Expressions of doubt and trust in online user reviews. *Computers in Human Behavior*, 114, 106556.
- Evans, A. M., Stavrova, O., & Rosenbusch, H., Brandt, M. (2021). Expressions of doubt in online news discussions. *Social Science Computer Review*.
- Evans, A. M., Rosenbusch, H., & Zeelenberg, M. (2021). Using semantic similarity to understand the psychological constructs related to prosociality. *Current Opinion in Psychology*.

UNDER REVIEW

- Rosenbusch, H. (under review). Autonomous human error learning: Using reinforcement learning models to identify weak points in human performance.
- Rosenbusch, H., Evans, A. M., Zeelenberg, M. (under review). Superficial characteristics of scientists and evaluations of their TED talks: Bayesian reestimation of previous “Null” effects.
- Rosenbusch, H., Evans, A. M., Zeelenberg, M. (under review). The relative importance of joke and audience characteristics when trying to elicit amusement.

CONFERENCE CONTRIBUTIONS

- Rosenbusch, H., Aghaei, M., Evans, A. M., Zeelenberg, M. (2019). Predicting psychological associations to women’s clothes: A database and computer vision model. Presented at *Economic and Consumer Psychology Workshop Cologne*.
- Rosenbusch, H., Wanders, F., Pit, I. (2019). The Semantic Scale Network: An online tool to detect semantic overlap of psychological scales and prevent scale redundancies. Poster presented at *IC2S2*.
- Rosenbusch, H., Evans, A. M., Zeelenberg, M. (2018). Distinguishing trust and gullibility through Twitter language. Poster presented at *TIBER 2018*.

TEACHING

At the Bachelor level, I taught the following: Introduction to Psychology, Social Psychology, Consumer Behavior and Big Data, Cultural Psychology, and Attitudes and Advertising. Further, I regularly supervise Bachelor theses and Academic Skills group projects.

At the Master level, I currently teach the courses Deep Learning in Python, Programming in Psychological Science, and Data-driven Consultancy. Further, I am the administrator for master theses in the data science track.

Additionally, I hosted a research colloquium on machine learning for social scientists and gave a workshop on machine learning with Python for economists. Further, I was invited to give guest lectures on machine learning and algorithms at Princeton University and the University of Antwerp.

AWARDS AND SCHOLARSHIPS

Research Talent Grant 2017

This grant was awarded to me by the Nederlandse Organisatie voor Wetenschappelijk Onderzoek (NWO) in order to finance a joint Ph.D. project between the University of Groningen and the University of St Andrews. I decided to not accept the grant and instead start my Ph.D. project at the University of Tilburg, because Tilburg offered me more opportunities to study research methods and statistics.

Excellent Student Grant 2016

This grant was awarded to me by the Groningen University Fund (GUF) in order to support my research traineeship at the University of St Andrews.

PROMOS Scholarship 2014

This scholarship was awarded to me by the Deutscher Akademischer Austauschdienst (DAAD) in order to finance my studies at the University of Queensland.

SKILLS

IT instruments:

R, Python, Git, SQL, NetLogo, Qualtrics, Adobe CC, MTurk/Prolific, Webmorph, Liwc; Basics in: C, HTML, CSS

Memberships/Engagement:

Member in the Association of Data Scientists (ADaSci)

Member of PhD Council for Social and Behavioral Sciences

Co-founder and editor of The Amnesty Post in Groningen (human rights magazine)

Member of Kalliope Groningen Debating Society

Languages:

German (native), English (fluent), French & Dutch (intermediate)
