

Curriculum Vitae

Markus Weber (former Krause)

Educational Psychology and Technology Research Group
Institute of Educational Science
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Academic Positions and Working Experience

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| since 06/2022 | Visiting Researcher at the Embedded Security Research Group
<i>Max Planck Institute for Security and Privacy, Germany</i>
Director Prof. Dr.-Ing. Christof Paar |
| since 01/2022 | Lecturer at the Quantitative Research Methods Department, Faculty of
Philosophy and Educational Sciences,
<i>Ruhr University Bochum, Germany</i>
Dr. Katja Serova |
| since 10/2021 | Doctoral Research Assistant at the Educational Psychology Research
Group, Faculty of Philosophy and Educational Sciences,
<i>Ruhr University Bochum, Germany</i>
Prof. Dr. Nikol Rummel |
| 10/2018 – 09/2021 | Student Research Assistant and Research Assistant at the Psychology of
Human Technology Interaction Research Group, Faculty of Psychology,
<i>Ruhr University Bochum, Germany</i>
Prof. Dr. Malte Elson |
| 03/2020 – 08/2020 | Research Internship at the Human-Centred Security Research Group,
Faculty of Electrical Engineering and Information Technology
<i>Ruhr University Bochum, Germany</i>
Prof. Dr. Angela Sasse |
| 03/2018 – 08/2018 | Research Internship at the Psychological Methods Lab, Faculty of
Psychology,
<i>Ruhr University Bochum, Germany</i>
Prof. Dr. Maike Luhmann |
| 10/2013 – 09/2018 | Nurse practitioner in adult inpatient intensive care and pediatric outpatient
intensive care
<i>Marienhospital Gelsenkirchen GmbH, Germany</i>
<i>Das mobile Pflegeteam Wetter, Germany</i> |

Education

- Since 01/2022 **Ph.D. student** at the Faculty of Psychology, funded by the graduate school SecHuman (Part of the Horst Görtz Institute for IT Security) under supervision of Prof. Dr. Nikol Rummel and Prof. Dr. Malte Elson
- Research topic: Cognitive factors of netlist reverse engineering and their development with increasing experience
- 09/2021 **Master of Science Psychology** (focus on clinical psychology), *Ruhr University Bochum, Germany*
- Masterthesis: "Angemessenheit zitierter Belege für empirische Behauptungen in Veröffentlichungen in der Klinischen Psychologie" [Quotation Errors in Clinical Psychology]
- 07/2019 **Bachelor of Science Psychology** (focus on counseling and intervention), *Ruhr University Bochum, Germany*
- Bachelorthesis: "Erfüllen systematische Reviews aus der Pädagogischen Psychologie die PRISMA-Items? Eine meta-wissenschaftliche Untersuchung" [Do systematic reviews in the field of educational psychology comply with the PRISMA items? A meta-analytical investigation]
- 09/2013 Nursing Exam,
Marienhospital Gelsenkirchen GmbH, Germany

Academic Services

- 10/2018 – 10/2019 Elected student member of the Psychology Faculty Council [Fakultätsrat] at *Ruhr University Bochum, Germany*
- 05/2017 – 11/2017 Member of the search committee for the professorship of "Developmental Psychology" [Entwicklungspsychologie, W3] at the Faculty of Psychology, *Ruhr University Bochum, Germany*
- 10/2016 – 10/2019 Elected member of the Psychology Student Council [Fachschaftsrat] at *Ruhr University Bochum, Germany*

Publications (peer-reviewed)

Walendy, R., **Weber, M.**, Li, J., Becker, S., Wiesen, C., Elson, M., Kim, Y., Fawaz, K., Rummel, N., & Paar, C. (2024 in press). I see an IC: A Mixed-Methods Approach to Study Human Problem-Solving Processes in Hardware Reverse Engineering. Proceedings of the 2024 CHI Conference on Human Factors in Computing Systems. Association for Computing Machinery, Honolulu, HI, USA.
<https://doi.org/10.1145/3613904.3642837>

Hamadache S., **Krause M.**, Elson M. (2021). Strategies of Naive Software Reverse Engineering: A Qualitative Analysis. In: Zallio M., Raymundo Ibañez C., Hernandez J.H. (eds) Advances in Human Factors in Robots, Unmanned Systems and Cybersecurity. AHFE 2021. Lecture Notes in Networks and Systems, vol 268. Springer, Cham. https://doi.org/10.1007/978-3-030-79997-7_29

Invited Talks & Workshops

Weber, M. (2023). An Introduction to Multilevel Analysis with R. JURE 23 Junior Researchers Pre-Conference of EARLI (The European Association for Research on Learning and Instruction), Thessaloniki, Greece. <https://www.earli.org/events/jure2023#section-workshops>

Teaching

10/2022 – 11/2022	Vorlesungsververtretung: "Vorlesung: Statistik für Erziehungswissenschaftler:innen" [Lecture substitution in Statistics for Educational Researchers], Faculty of Philosophy and Educational Sciences, <i>Ruhr University Bochum, Germany</i>
Since 10/2021	1 SWS pro Wintersemester [4 consecutive workshops each winter term] "Kompaktkurs: Statistik für Wiederholer:innen" [Statistics for Re-enrollers], Faculty of Philosophy and Educational Sciences, <i>Ruhr University Bochum, Germany</i>
Since 04/2022	3 SWS pro Sommersemester [9 consecutive workshops each summer term] "Übung: Praktiken empirischer Forschung" [Empirical Research Methods], Faculty of Philosophy and Educational Sciences, <i>Ruhr University Bochum, Germany</i>
Since 10/2021	4 SWS pro Wintersemester [14 consecutive workshops each winter term] "Übung: Statistik für Erziehungswissenschaftler:innen" [Statistics for Educational Researchers], Faculty of Philosophy and Educational Sciences, <i>Ruhr University Bochum, Germany</i>