

CURRICULUM VITAE

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REGINA AGNES WEILBÄCHER



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EDUCATION

- 07/2016 – **Ph.D. in Decision Neuroscience in the Social, Economic and**
11/2020 **Decision Psychology Doctoral Program**, University of Basel
(Advisors: Prof. Sebastian Gluth and Prof. Jörg Rieskamp)
Ph.D. thesis title: *Cognitive mechanisms underlying memory-based choice*
- 07/2014 – **MSc in Psychology, Major Neuroscience and Clinical Psychology**,
06/2016 University of Basel (Advisors: Dr. Leo Gschwind and Dr. Christian Vogler)
Master thesis title: *Hierarchical clustering of IAPS pictures based on fMRI activation patterns and the relation to semantic categories and heritability*
- 09/2011 – **BSc in Cognitive Psychology**, University of Basel (Advisor: Dr. Gilles Dutilh)
06/2014 Bachelor thesis title: *Website appraisal and first impression*

ACADEMIC EXPERIENCE

- 07/2016 – **Ph.D. student**, University of Basel, Faculty of Psychology,
12/2020 Center for Decision Neuroscience 100%
(Advisors: Prof. Sebastian Gluth and Prof. Jörg Rieskamp)
Duties: Data Science: Performing behavioral and neuroscientific (eye-tracking, fMRI, EEG) data analysis of complex data (Python, R, MATLAB), programming experiments, using mathematical and computational modeling (Bayesian/frequentist). Other: Presenting at international conferences, writing research articles, teaching, supervising research assistants, preparing, conducting, and managing research projects
- 02/2013 – **Student Research Assistant**, University of Basel, Faculty of Psychology,
06/2016 Center for Economic Psychology 15-25% (Advisor: Dr. Janina Hoffmann)
Duties: Coordinating studies, programming experiments (Python and MATLAB), writing literature reviews, performing data analysis (SPSS, MATLAB, R, PLINK)
- 01/2015 – **Clinical Internship**, UPK University Psychiatric Clinic, Ambulant Service for
03/2015 Addiction 80% (Advisor: Dr. Kenneth Dürsteler)
Duties: Administering psychological diagnostic tests and questionnaires, clinical data (including genetic data) management and data analysis (SPSS, R)
- 06/2013 – **Research Internship**, University of Zurich, Faculty of Psychology
10/2013 Division of Neuropsychology 50% (Advisor: Dr. Jürg Kühnis)
Duties: Performing data collection and analysis for an EEG experiment

AWARDS

- 2017 **Travel Award** Swiss Academy of Humanities and Social Sciences, 1000 CHF
2018 **Travel Award** Society of Neuroeconomics, 500 USD

2019 **Antelope Career Program** for female researchers including coaching sessions (financial, personal, career), and a travel award for an expert exchange (Prof. Daphna Shohamy, Columbia University, New York, USA)

PUBLICATIONS

- Weilbacher, R. A., & Gluth, S.** (2017). The interplay of hippocampus and ventromedial prefrontal cortex in memory-based decision making. *Brain sciences*, 7(1), 4.
- Hoffmann, J. A., von Helversen, B., **Weilbacher, R. A.**, & Rieskamp, J. (2018). Tracing the path of forgetting in rule abstraction and exemplar retrieval. *Quarterly Journal of Experimental Psychology*, 71(11), 2261-2281.
- Kraemer, P. M., **Weilbacher, R. A.**, Fontanesi, L., & Gluth, S. (2020). Neural Bases of Financial Decision Making: From Spikes to Large-Scale Brain Connectivity. In *Psychological Perspectives on Financial Decision Making* (pp. 3-19). Springer, Cham.
- Weilbacher, R. A.**, Kraemer, P. M., & Gluth, S. (2020). The reflection effect in memory-based decisions. *Psychological Science*, 31(11), 1439-1451.
- Weilbacher, R. A.**, Krajbich, I., Rieskamp J., & Gluth, S. (2021). The role of visual attention on memory-based preferential choice. *Cognition*, 215, 104804.

CONFERENCES

- 2017 **Weilbacher, R.A.**, Krajbich, I., Rieskamp J., & Gluth, S., The influence of visual attention on memory-based decisions, 10th JDMx meeting for Early Career Researchers, Bonn, May 31 – June 6, *talk*
- 2017 **Weilbacher, R.A.**, Krajbich, I., Rieskamp J., & Gluth, S., The influence of visual attention on memory-based decisions, SPUDM26, August 20 – 24, Haifa, *talk*
- 2017 **Weilbacher, R.A.**, Krajbich, I., Rieskamp J., & Gluth, S., The influence of visual attention on memory-based decisions, Neuroeconomics 2017, October 6 – 8, Toronto, *poster*
- 2018 **Weilbacher, R.A.**, Krajbich, I., Rieskamp J., & Gluth, S., Is visual attention mediating the memory bias in preferential choice? 11th JDMx meeting for Early Career Researchers, Konstanz, June 6 – 8, *talk*
- 2018 **Weilbacher, R.A.**, Krajbich, I., Rieskamp J., & Gluth, S., Do we choose what we remember because we pay more attention to it? 60th TeaP, Marburg, March 11 – 14, *talk*
- 2018 **Weilbacher, R.A.**, Krajbich, I., Rieskamp J., & Gluth, S., Is attention mediating the memory bias in preferential choice? Neuroeconomics 2018, Philadelphia, October 5 – 7, poster & poster spotlight
- 2019 **Weilbacher, R.A.**, Kraemer, P. M., & Gluth, S., Memory as uncertainty: a reflection effect in memory-based decisions? 12th JDMx meeting for Early Career Researchers, Trento, June 27 – 29, *talk*
- 2019 **Weilbacher, R.A.**, Kraemer, P. M., & Gluth, S., Memory as uncertainty: the reflection effect in memory-based decisions SPUDM27, August 18 – 22, Amsterdam, *talk*
- 2019 **Weilbacher, R.A.**, Kraemer, P. M., & Gluth, S., A reversed memory bias on value-based decisions in the loss domain, Neuroeconomics 2019, Dublin, *poster*

2020 **Weilbacher, R.A.**, Gluth, S., Comparing choices across and within domains, NeuroPsychoEconomics 2020, Online conference, June 11 – 12, *talk*

WORKSHOPS AND SUMMER SCHOOLS

2017 Summer School on Decisions, Law, and the Big Data Revolution, August 20 – 28, Haifa, *summer school*

2018 Models in Judgment and Decision Making, June 21 – 23, Hamburg, *workshop*

2018 5th Summer School on Computational Modeling, July 7 – 21, Couches, France, *summer school*

TEACHING EXPERIENCE

BSc. course, “Introduction to neuroscientific methods in the psychology of learning and decision-making” held three times (2017, 2018 and 2019)

SERVICE TO PROFESSION

Reviewing

for Brain Sciences, Psychological Bulletin, eLife

ACADEMIC SKILLSET

Programming/Software

R / Python / Jupyter Notebook	● ● ● ● ●
MATLAB / MS Office / Github Stan /	● ● ● ● ●
JAGS / Pymc3 / Bash / Shell Google	● ● ● ● ●
Suite / Slack / Confluence / Jira	● ● ● ● ●
Latex	● ● ● ● ●

OTHER SKILLS

Languages

(Swiss) German / Italian	● ● ● ● ●
English / French	● ● ● ● ●
Modern Hebrew	● ● ● ● ●