

# CURRICULUM VITAE

August, 2020

## REGINA AGNES WEILBÄCHER



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### EDUCATION

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- 07/2016 – **Ph.D. in Decision Neuroscience in the Social, Economic and**  
present **Decision Psychology Doctoral Program**, University of Basel  
(Advisors: Prof. Sebastian Gluth and Prof. Jörg Rieskamp)  
Ph.D. thesis title: *The role of episodic memory on value-based choice*  
Due for submission September 2020
- 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

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- 07/2016 – **Ph.D. student**, University of Basel, Faculty of Psychology,  
present 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

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- 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

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- 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. (in press). The reflection effect in memory-based decisions. *Psychological Science*.
- Weilbacher, R. A.**, Krajbich, I., Rieskamp J., & Gluth, S. (2020). The role of visual attention on memory-based choice. Manuscript submitted for publication.

## CONFERENCES

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- 2017 **Weilbacher, R.A.**, Krajbich, I., Rieskamp J., & Gluth, S., The influence of visual attention on memory-based decisions, 10<sup>th</sup> 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? 11<sup>th</sup> 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? 60<sup>th</sup> 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? 12<sup>th</sup> 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

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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

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

## SERVICE TO PROFESSION

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### Reviewing

for Brain Sciences, Psychological Bulletin, eLife

## ACADEMIC SKILLSET

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### Programming/Software

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

## OTHER SKILLS

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### Languages

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