

GABRIEL WEINDEL

He/Him, Born in 1991 in Lübbecke, Germany

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website

gweindel.github.io/

POSITIONS

Employment 10/2020 - 12/2020 Research Engineer, Laboratoire de Neurosciences Cognitives, Centre National de la Recherche Scientifique

09/2019 - 09/2020 Research and teaching assistant (in French *Attaché Temporaire d'Enseignement et de Recherche*), Laboratoire de Psychologie Cognitive, Aix-Marseille University (AMU)

10/2016 - 09/2019 Doctoral Student contract, Laboratoire de Psychologie Cognitive, AMU

Internships Study related internships between 2013 and 2016 :

- Virtual reality as a treatment for generalized anxiety disorder, under the supervision of Eric Malbos, MD, *Assistance Publique des Hôpitaux de Marseille*
- Psychological clinical care and neuropsychological assessment in a retirement home, under the supervision of Benoit Michel, psychologist, *Le chêne vert, Marseille*
- Neuropsychological assessment in a psychiatry unit, under the supervision of Florence Vaillant, psychologist, *Assistance Publique des Hôpitaux de Marseille*
- Research project on dyslexia and strategic offset in adulthood, under the supervision of Eddy Cavalli, PhD, Laboratoire de Psychologie Cognitive, AMU

EDUCATION

Ph.D. 10/2016 - 03/2021 On the measurement and estimation of cognitive processes with electrophysiological recordings and reaction time modeling. AMU

Link: You can download the thesis manuscript on my [server](#)

MSc 09/2014- 10/2016 Master in cognitive psychology and neuropsychology (*Psychologie et neuropsychologie des perturbations cognitives*), with highest honours, at AMU

Bachelor 09/2010 - 06/2014 Bachelor in psychology, with high honours, at AMU

GRANTS

- 10/2016 - 08/2019 Interdisciplinary Ph.D. grant from Collège Doctoral, university wide competition (AMU - Ministère de l'Enseignement Supérieur et de la Recherche).

SELECTED RESEARCH OUTPUTS

Publications

- Gajdos, T., Fleming, S. M., Saez Garcia, M., **Weindel, G.**, et Davranche, K. (2019). Revealing subthreshold motor contributions to perceptual confidence. *Neuroscience of consciousness*, 2019 (1), niz001.
- Rahnev, D., Desender, K., Lee, A.L.F. et al. The Confidence Database. *Nature Human Behavior*, 4, 317–325 (2020).
- **Weindel, G.**, Anders, R., Alario F.-X. and Burle B. Assessing model-based inferences in decision making with single-trial response time decomposition. *Journal of Experimental Psychology: General* (in press) see [OSF repository](#)

Oral communications

2020 · [Talk](#) at the 53rd annual meeting of the Society for Mathematical Psychology, virtual conference.

2019 · Poster at NeuroFrance, Marseille.

2018 · Talk at workshop Probabilities and Optimal Inference to Understand the Brain, Marseille.

2017 · [Poster](#) at the 21st conference of the European Society of Cognitive Psychology, Potsdam.

2016 · Talk at the local conference “Journée de la SFR Sciences du Cerveau et de la Cognition”, Marseille.

Reviewing activities

Journal : Computational Brain & Behavior

TEACHING

Lectures created

Spring 2021 · Linear mixed models and Bayesian statistics, Course for doctoral students, AMU (12 hours scheduled)

Spring 2021 · An introduction to R programming, Course for doctoral students, AMU (4 hours scheduled)

Spring 2020 · Mental chronometry and linear mixed models: 1st year master of cognitive science, AMU (11 hours) see [Github repository](#)

Spring 2020 · Education to research and scientific elaboration: 1st and 2nd year Master in cognitive psychology and neuropsychology, AMU (9 hours)

Spring 2020 · Experimental design: 3rd year psychology bachelor, AMU (10 hours)

Spring 2020 · Supervision of research bachelor thesis: 3rd year psychology bachelor, AMU (10 hours)

Fall 2019 · Qualitative and model-based analysis of individual differences: 1st year Master in cognitive psychology and neuropsychology, AMU (9 hours)

Fall 2019 · Introduction to cognitive psychology: 1st year Master Intervention and social development, AMU (9 hours)

Teaching assistant

Spring 2016 · Spring 2017 · Fall 2018 · Fall 2019 · Cognitive Psychology: 2nd year psychology bachelor, AMU (246 hours)

Fall 2016 · Spring 2020 · Cognitive Psychology: 1st year psychology bachelor, AMU (76 hours)

OTHER INFORMATION

Workshops attended

2019 · Cognitive Control and Performance Monitoring, Oostduinkerke (Belgium)

2018 · 4 days Masterclass in Bayesian Statistics at Centre international de Rencontres Mathématiques, Marseille (France)

2016 · Bayesian Estimation of Evidence Accumulation Architectures in Neuroscience and Cognition, 5 days summer school by Pr. Scott Brown, Pr. Andrew Heathcote, Pr. Dora Matzke, Pr. Brandon Turner at Boston University, Boston (MA, USA)

Research skills

(General) Linear (mixed) models · Bayesian estimation and statistics · Cognitive modeling · Cognitive tasks and experimental design · Electro-encephalography · Electro-myography

Computer skills

Python (e.g. numpy, mne, HDDM, pystan, arviz, matplotlib, seaborn, pandas) · \LaTeX · R · Stan · jupyter notebooks · Brainvision · PsychoPy · Linux · Git · bash · Open office suite · Distant computing (ssh) · Server administration under Debian

Community service

2013-2015 · Elected student member at the Academic council of Aix-Marseille Université ("*Commission Formation Vie Universitaire*")

2012-2014 · Elected student member at the Psychology council of Aix-Marseille University

Languages

ENGLISH · Advanced

FRENCH · Native speaker

GERMAN · Native speaker