Darinka Trübutschek

Email: Date of birth: Personal situation darinka.truebutschek@ae.mpg.de 26 February 1987 Married, two children (born: August 2019 & December 2023)

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Jan 2021 - ongoing

Postdoctoral Research Fellow

Max Planck Institute for Empirical Aesthetics, Frankfurt/Main, Germany

Advisor: Prof. Lucia Melloni

CAREER GAP

Oct 2023 – Aug 2024 Maternity leave

Mar 2020 – Aug 2020 Caring responsibility for my son as a result of the Covid-19 related

shutdown of childcare and research facilities

Jul 2019 – Dec 2019 Maternity leave

EDUCATION

Nov 2014 – Oct 2018 PhD in Cognitive Neuroscience, with highest honors

Sorbonne Université, Paris, France; Advisor: Prof. Stanislas Dehaene

Sept 2012 – Dec 2013 MSc in Behavioral and Cognitive Neuroscience, magna cum laude

Université Pierre et Marie Curie, Paris, France

Sept 2007 – May 2010 BSc with Honors in Psychology, summa cum laude (valedictorian)

Washington & Lee University, Lexington, VA, USA

RESEARCH & PROFESSIONAL EXPERIENCE

Jan 2019 – Dec 2020 **Postdoctoral Research Fellow**

University of Oxford, Oxford, UK; Advisor: Prof. Mark Stokes

Jan 2014 – Oct 2014 Research Intern

Neurospin, Saclay, France; Advisor: Dr. Sébastien Marti

Jun 2010 – Aug 2012 **Postbaccalaureate Fellow in Functional Neuroimaging**

Duke University, Durham, NC, USA; Advisor: Prof. Tobias Egner

GRANT FUNDING & FELLOWSHIPS

2022 BIAL Foundation Grant for the project "Event segmentation and time

perception: understanding why time feels like flying" (56.000€; co-PI with

Dr. Lucia Melloni)

2021 Christiane-Nüsslein-Volhard Fellowship for women in STEM (4.800€)

2021 Marie-Sklodowska Curie Individual Fellowship (174.806,40€)

2018 Postdoctoral fellowship from the **Fondation Fyssen** (70.000€)

2015 Grant from the Schneider Electric Foundation to finance two years of a PhD

in cognitive neuroscience (72.236€; co-PI with Prof. Stanislas Dehaene)

2012 Graduate fellowship from the Ecole des Neurosciences de Paris to fund a

PhD in neuroscience (150.000€)

2010	Postbaccalaureate Fellowship in Functional Neuroimaging from Duke University's Brain Imaging and Analysis Center (\$60.000)
	■ HONORS & AWARDS
2022	L'Oréal-Unesco for Women in Science National Award (10.000€)
2019	Prix de la chancellerie des universités de Paris (PhD award; 10.000€)
2016	Fellowship to attend the NIH Kavli Summer Institute in Cognitive Neuroscience
2010	Robinson Award in English Literature, History, and Social Sciences awarded by Washington & Lee University in recognition of my academic achievements
2007 - 2010	Washington & Lee University Honor Roll
2009	Elected to Phi Beta Kappa , a national honor society inducting undergraduates ranked among the top 10%
2009	R.E. Lee Summer Scholar (\$3.100 summer research grant)
2009	Psychology Departmental Scholarship awarded by Washington & Lee University
2008	James D. Davidson Memorial Fund Scholarship awarded by Washington & Lee University
2008	Elected to Phi Eta Sigma, a national honor society inducting freshmen ranked among the top 20% of their class
2004	Congress/Bundestag Youth Exchange Scholarship to fund a 1-year high school exchange in Springfield, VA, USA
	- DEED DEVIEWED DUDI ICATIONS

PEER-REVIEWED PUBLICATIONS

Published/Pre-prints

How do subjective perception and memory shape one another?

- #7. Zheng, Z., **Trübutschek, D.**, Huang, S., Cai, Y., & Melloni, L. (2024). What you saw a while ago determines what you see now: The effect and temporal dynamics of awareness priming on implicit behavior. *PsyArXiv*. doi: https://doi.org/10.31234/osf.io/9dysm
- #6. **Trübutschek**, **D.** & Melloni, L. (2023). Stable perceptual phenotype of the magnitude of history biases even in the face of global task complexity. *Journal of Vision*, 23(4), 1-20. doi: https://doi.org/10.1167/jov.23.8.4
- #5. **Trübutschek**, **D.** (2022). Context-independent item representations in human working memory. *Annals Fyssen No.* 35, 124-142.
- #4. **Trübutschek, D.**, Marti, S., Ueberschär, H., & Dehaene, S. (2019). Probing the limits of activity-silent, non-conscious working memory. *PNAS*, *116*(28), 14358-14367. doi: https://doi.org/10.1073/pnas.1820730116.

- #3. **Trübutschek, D.**, Marti, S., & Dehaene, S. (2019). Temporal-order information can be maintained in non-conscious working memory. *Scientific Reports*, *9*(6484). doi: https://doi.org/10.1038/s41598-019-42942-z
- #2. **Trübutschek, D.**, Marti, S., Ojeda, A., King, J.-R., Mi, Y., Tsodyks, M., & Dehaene, S. (2017). A theory of working memory without consciousness or sustained activity. *eLife*. doi: https://dx.doi.org/10.7554/eLife.23871.001
- #1. Naccache, L., Marti, S., Sitt, J. D., **Trübutschek, D.**, & Berkovitch, L. (2016). Why the P3b is still a plausible correlate of conscious access? A commentary on Silverstein et al., 2015. *Cortex*, 85. 126-128. doi: https://doi.org/10.1016/j.cortex.2016.04.003

Shaping the future of (neuro-)science

- #4. Sarafoglou, A., Hoogeveen, S., van den Bergh, D., Aczel, B., Albers, C. J., Althoff, T., Botvinik-Nezer, R., ..., **Trübutschek, D.**, ..., & Wagenmakers, E.-J. (2024). Subjective evidence evaluation survey for multi-analyst studies (2024). *PsyArxiv*. doi: https://doi.org/10.31234/osf.io/mxje3
- #3. **Trübutschek, D.***, Yang, Y.-F.*, Gianelli, C.*, Cesnaite, E., Fischer, N. L., Vinding, M. C., Marshall, T. R., Algermissen, J., Pascarella, A., Puoliväli, T., Busch, N., & Nilsonne, G. (2022). EEGManyPipelines: A large-scale, grassroots multi-analyst study of electroencephalography analysis practices in the wild. (2023). *Journal of Cognitive Neuroscience*, *36*(2). doi: https://doi.org/10.1162/jocn_a_02087
- #2. Ruzzoli, M., Torralba Cuello, M., Molingaro, N., Benwell, C. S. Y., Berkowitz, D., Brignani, D., Falciati, L., ..., **Trübutschek, D.**, ..., & Veniero, D., (2023). An #EEGManyLabs study to test the role of the alpha phase on visual perception (a replication and new evidence). *PsyArxiv*. doi: https://doi.org/10.31234/osf.io/3dhpx
- #1. Pike, A. C., Atherton, K., Bauer, Y., Crittenden, B. M., van Ede, F., Hall-McMaster, S., von Lautz, A. H., ..., **Trübutschek, D.**, ..., & Noonan, M. P. (2022). 10 simple rules for a supportive lab environment. *Journal of Cognitive Neuroscience*, *35*(1), 44-48. doi: https://doi.org/10.1162/jocn_a_01928

Pre-PhD

- #2. Coyle, E. F., Fulcher, M., & **Trübutschek**, **D.** (2016). Sissies, mama's boys, and tomboys: Is children's gender nonconformity more acceptable when nonconforming traits are positive? *Archives of Sexual Behavior*, 45, 1827-1838. doi: https://doi.org/10.1007/s10508-016-0695-5
- #1. **Trübutschek**, **D.**, & Egner, T. (2012). Negative emotion does not modulate rapid feature integration effects. *Frontiers in Psychology*, *3*(100). doi: https://doi.org/10.3389/fpsyg.2012.00100

In preparation

- **Trübutschek, D.**, Wasmuht, D., Spaak, E., & Stokes, M. (in prep). Dynamic brain states for flexible decision-making in working memory.
- **Trübutschek, D.**, Fischer, C., Bledowski, C., & Melloni, L. (in prep). Attractive biases in working memory arise at the level of decisions, not perception.
- **Trübutschek, D.**, Vieten, I., Schwiedrzik, C., & Melloni, L. (in prep). Not so automatic? Active, but not latent working memory templates trump serial dependence.

Trübutschek, D.*, Kienitz, R.*, Winkler, M., Singer, W., & Melloni, L. (in prep). The role of the hippocampus for non-conscious sequence memory.

2022	INVITED TALKS Women in Neuroscience Panel discussion on 'Family, maternity, and caring duties: finding work-life balance (online)
2022	Neural Dynamics Forum (University of Bristol, UK): Flexible decision-making in working memory
2021	65 th Congress of the German Society for Clinical Neurophysiology and Functional Imaging (DGKN; Frankfurt/Main, Germany): <i>Decoding our thoughts: Tracking the contents of (non-)conscious working memory</i>
2020	Aggregate Intellect's Spotlight Series (online seminar): <i>Decoding our thoughts: Tracking the contents of (non-)conscious working memory</i>
2020	Barnes' lab (University College London, UK): The neuro-cognitive architecture of complex working memory
2019	Royal Netherlands Academy of Arts & Sciences Colloquium on 'New Perspectives on Visual Working Memory' (Amsterdam, Netherlands): Characterizing the neuro-cognitive architecture of non-conscious working memory
2018	Stokes' lab (University of Oxford, UK): Characterizing the neuro-cognitive architecture of non-conscious working memory
2018	Basque Center on Cognition, Brain and Language external speaker seminar series (San Sebastian, Spain): Non-conscious working memory and its boundary conditions
2016	Ecole des Neurosciences de Paris seminar series (Paris, France): A theory of working memory without consciousness or sustained activity
2015	Egner lab (Duke University, USA): Disentangling the relationship between conscious perception and working memory
2015	Neurophilosophy workshop of the Berlin School of Mind and Brain (Venice, Italy): (<i>Un</i>)conscious working memory?
2017	CONFERENCE PRESENTATIONS Poster at ICON 13 (Amsterdam, Netherlands): The limits of non-conscious working memory
2017	Talk at the Association for the Scientific Study of Consciousness 21 (Beijing, China): <i>The limits of non-conscious working memory</i>
2016	Talk at the Neuroscience Workshop Saclay (Gif/Yvette, France): Disentangling the relationship between conscious perception and working memory

2016	Poster at the Neuroscience Workshop Saclay (Gif/Yvette, France): Disentangling the relationship between conscious perception and working memory
2015	Poster at SFN (Chicago, USA): (Un)conscious working memory? – Disentangling the relationship between conscious perception and working memory
2015	Symposium talk at the Association for the Scientific Study of Consciousness 19 (Paris, France): <i>Perception and working memory during conscious and unconscious processing</i>
2011	Poster at SRCD (Montréal, Canada): <i>Male gender non-conformity and derogatory labels: Young adults' attitudes about and labels for preschoolers</i>
2009	Poster at Science, Society, and the Arts Conference (Lexington, USA): Effects of parental closeness on emerging adults' engagement in risk-taking behaviors and adult status
	SUPERVISION & MENTORING
Dec 2022 – Feb 2023	Primary supervisor of Sümeyye Öztürk (Erasmus intern)
April 2022 – ongoing	Primary supervisor (together with R. Kienitz) of Maximilian Winkler (PhD thesis)
Oct 2021 – ongoing	Co-supervisor of Zefan Zheng (PhD thesis)
Sept 2021 – April 2022	2 Primary supervisor of Ilona Vieten (Master's thesis)
2018 – 2019	Participated in the mentoring program <i>Letters to a Pre-scientist</i> , pairing up a researcher and high school student from a disadvantaged background to be pen pals for the duration of the academic year
2018	Plenary lecture as part of the Brain Awareness Week (together with Sébastien Marti; Saclay, France): <i>How does the brain construct our conscious experience?</i>
2017 – ongoing	Participated in the mentoring program <i>Skype a Scientist</i> , allowing school children from all over the world to interact with a researcher through skype
2010 - 2012	Co-supervisor of Alex Irwin & Hannah Gold (undergraduate research interns)
2009 – 2010	Resident advisor for first-year students at Washington & Lee University
Fall 2009	Teaching Assistant for a Laboratory Statistics Course , Washington & Lee University
2008 – 2010	Peer tutor in German & Psychology at Washington & Lee University
2005 – 2012	Volunteer for the American Field Service (AFS; exchange organization): coorganized exchange student recruitment & selection; mentored participating host families and students

SERVICE TO THE COMMUNITY

since 2021	Social media manager for the Melloni lab
since 2020	Founding member of the steering committee of the EEGManyPipelines project
since 2017	Ad-hoc reviewer for Behavioral Brain Research, Cerebral Cortex, Consciousness & Cognition, Neuroscience of Consciousness, Scientific Reports, Quarterly Journal of Experimental Psychology
2016 – 2017	Co-organizer of the Neuroscience Workshop Saclay (NEWS 2017): <i>Neural circuits and behavior: from cells to connectivity and function</i> ; 9 international plenary speakers, 8 local trainee speakers, 153 attendees
2015 – 2016	Elected representative for the Ecole des Neurosciences de Paris student body; managed the annual budget (~2.500€), organized a seminar series on "New Frontiers in Neuroscience", coordinated cultural & social events
2014 - 2018	Co-organizer of the weekly Consciousness Seminar in the Dehaene lab
2018 – 2019	OUTREACH Letters to a Pre-scientist; cf. #Supervision, Mentoring, & Teaching
2018	Brain Awareness Week (Paris, France); cf. #Supervision, Mentoring, & Teaching
since 2017	Skype a Scientist; cf. #Supervision, Mentoring, & Teaching
2017	NHK (Japanese Broadcasting Corporation) documentary series on the human body ; co-advised producers on scientific content
2016	ARTE documentary "Déchiffrer la conscience"; co-advised producers on scientific content & participated in scenes on MEG data acquisition
2013	Brain Awareness Week (Paris, France); co-organized a seminar on "A headful of music"
2011	Brain Awareness Week (Durham, NC, USA); organized & hosted lab visits for the general public, gave introductory lectures on the brain in several local elementary & high schools
Methods	TECHNICAL SKILLS intracranial EEG, MEG, (f)MRI/DTI, psychophysics
Programming	Matlab, Python, R
Stimulus presentation	PsychoPy, Psychtoolbox, Presentation, E-prime
Data analysis	MNE Python, Fieldtrip, Brainstorm, scikit-learn, SPM, FSL, SPSS
Version control	git, gitHub
Operating systems	MacOS, Linux, Windows

LANGUAGES

German Native language

English Native level

French Fluent

Italian Beginner

MAJOR ONGOING COLLABORATIONS

Dr. Lucia Melloni (Max Planck Institute for Empirical Aesthetics, Germany): exploring how the past shapes current perception

Cora Fischer & Dr. Christoph Bledowski (Goethe University, Germany): serial biases in conscious perception

Dr. Ricardo Kienitz (**Goethe University, Germany**): the role of the hippocampus for non-conscious working memory

Prof. Mark Stokes (**University of Oxford, UK**): neural correlates of flexible decision-making in working memory

Xin You Tai (University of Oxford, UK): the effect of inter-ictal discharges on cognitive performance

EEGManyPipelines project (world-wide collaboration): multi-analyst project to assess variability in (preprocessing) analysis parameters & their effect on obtained results