# Curriculum Vitae


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| Name: | **Martin Constant (he/him)** |
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| Languages: | French (native), English (C2), German (B2) |


## Education

03/2019 – 12/2022: **PhD in Systemic Neurosciences – "Overlooked influences of visual working memory performance."**

*Graduate school of Systemic Neurosciences*
*Ludwig-Maximilians-Universität München, Munich, Germany*
*Supervision: PD Dr. Heinrich R. Liesefeld*
*Thesis advisory committee: PD Dr. Heinrich R. Liesefeld, Prof. Dr. Hermann J. Müller, Prof. Dr. Paul Sauseng*

09/2017 – 06/2018: Master 2 in Cognitive Science – "Neuropsychology and Clinical Neurosciences"

*Université Lumière Lyon 2, Lyon, France*
*École Normale Supérieure de Lyon (ENS), Lyon, France*
*Université Grenoble Alpes, Grenoble, France*
*Université Toulouse III Paul Sabatier, Toulouse, France*

09/2016 – 06/2017: Master 1 in Cognitive Science – "Technologies, Cognition, Ergonomics and Handicap"

*Université de Bordeaux, Bordeaux, France*

09/2013 – 06/2016: Licence in Cognitive Science

*Université Lumière Lyon 2, Lyon, France*

## Research Experience

06/2023 – Now: **Postdoctoral Researcher**

*Faculty of Psychology and Educational Sciences*
*Université de Genève, Geneva, Switzerland*
*Advisor: Prof. Dr. Dirk Kerzel*

09/2021 – 12/2022: Wissenschaftlicher Mitarbeiter (Research Associate)

*Department of Psychology*
*Universität Bremen, Bremen, Germany*
*Supervision: PD Dr. Heinrich R. Liesefeld*

03/2019 – 08/2021: Wissenschaftlicher Mitarbeiter (Research Associate)

*General and Experimental Psychology*
*Ludwig-Maximilians-Universität München, Munich, Germany*
*Supervision: PD Dr. Heinrich R. Liesefeld*

01/2018 – 06/2018: Research intern – "Cerebral basis of spatial attention"

*Neurofunctional Imaging Group (GIN-IMN), Bordeaux, France*
*Neurodegeneratives Diseases Institute, UMR 5293, Team 5 - CEA - CNRS - Université de Bordeaux*
*Supervision: Dr. Laure Zago & Dr. Emmanuel Mellet*

03/2017 – 06/2017: Research intern – "Variability of left-right discrimination"

*Neurofunctional Imaging Group (GIN-IMN), Bordeaux, France*
*Neurodegeneratives Diseases Institute, UMR 5293, Team 5 - CEA - CNRS - Université de Bordeaux*
*Supervision: Dr. Emmanuel Mellet*

## Publications

- **Constant, M.**, Mandal, A., Asanowicz, D., Panek, B., Kotlewska, I., Yamaguchi, M., Gillmeister, H., Kerzel, D., Luque, D., Molinero, S., Millán, A. V., Pesciarelli, F., Borelli, E., Ramzaoui, H., Beck, M., Somon, B., Desantis, A., Castellanos, M. C., Martín-Arévalo, E., … Liesefeld, H. R. (2025). A large-scale replication of Eimer (1996): Can the N2pc be elicited by an isolated target? *International Journal of Psychophysiology*, *213*, 113065. https://doi.org/pwfw (Conference abstract)
- **Constant, M.**, Mandal, A., Asanowicz, D., Panek, B., Kotlewska, I., Yamaguchi, M., Gillmeister, H., Kerzel, D., Luque, D., Molinero, S., Millán, A. V., Pesciarelli, F., Borelli, E., Ramzaoui, H., Beck, M., Somon, B., Desantis, A., Castellanos, M. C., Martín-Arévalo, E., … Liesefeld, H. R. (2025). A multilab investigation into the N2pc as an indicator of attentional selectivity: Direct replication of Eimer (1996). *Cortex*, *190*, 304–341. https://doi.org/prd7 [accepted version, raw data, processed data, OSF, code, in-principle acceptance]
- Fortuna, A., **Constant, M.**, & Kerzel, D. (2025). Effects of retro-cue reliability on visual working memory and attentional template efficiency in visual search. *PsyArXiv*. https://doi.org/prfn
- **Constant, M.**, & Kerzel, D. (2025). Effects of salience on visual working memory disappeared! Context during retrieval matters. *Journal of Vision*, *25*(9), 2029. https://doi.org/g9tk2f (Conference abstract)
- Fortuna, A., **Constant, M.**, & Kerzel, D. (2025). The impact of retro-cue validity on working memory and attentional template efficiency. *Journal of Vision*, *25*(9), 1768. https://doi.org/g9tk2d (Conference abstract)
- **Constant, M.**, & Kerzel, D. (2025). Persistent effects of salience in visual working memory: Limits of cue-driven guidance. *Journal of Experimental Psychology: Human Perception and Performance*. *51*(2), 153–163. https://doi.org/nz48 [accepted version, preprint v1, data] (Editor's choice article)
- Mushtaq, F., Welke, D., Gallagher, A., Pavlov, Y. G., Kouara, L., Bosch-Bayard, J., van den Bosch, J. J. F., Arvaneh, M., Bland, A. R., Chaumon, M., Borck, C., He, X., Luck, S. J., Machizawa, M. G., Pernet, C., Puce, A., Segalowitz, S. J., Rogers, C., Awais, M., … Valdes-Sosa, P. (2024). One hundred years of EEG for brain and behaviour research. *Nature Human Behaviour*, *8*, 1437–1443. https://doi.org/gt7s3x [pdf]
- Kerzel, D., & **Constant, M.** (2024). Effects of spatial location on distractor interference. *Journal of Vision*, *24*(9), 4. https://doi.org/ngfv [pdf, data]
- Kerzel, D., & **Constant, M.** (2024). Dense and uniform displays facilitate the detection of salient targets. *Visual Cognition*. https://doi.org/ndsf [pdf, data]
- **Constant, M.**, Mandal, A., Asanowicz, D., Yamaguchi, M., Gillmeister, H., Kerzel, D., Luque, D., Pesciarelli, F., Fehr, T., Mushtaq, F., Pavlov, Y. G., & Liesefeld, H. R. (2023). A multilab investigation into the N2pc as an indicator of attentional selectivity: Direct replication of Eimer (1996). *Stage 1 Registered Report at PCI-RR*. https://doi.org/grv7h2 [in-principle acceptance]
- **Constant, M.**, & Liesefeld, H. R. (2023). Effects of salience are long-lived and stubborn. *Journal of Experimental Psychology: General*, *152*(9), 2685 – 2694. https://doi.org/gr6xzr [accepted version; data]
- Liesefeld, H. R.*, **Constant, M.**, & Oberauer, K. (2022). The consequences of effects of saliency are long-lived (and stubborn). *Journal of Vision*, *22*(14), 4206. https://doi.org/jsvx (Conference abstract)
- **Constant, M.**, & Liesefeld, H. R. (2022). Examining the effect of saliency on EEG markers of attention allocation and maintenance in a visual-working-memory task. *Journal of Vision*, *22*(14), 3512. https://doi.org/jsvw (Conference abstract)
- **Constant, M.**, & Liesefeld, H. R. (2022). Electrophysiological markers of saliency-dependent visual-working-memory processing. In S. Malejka, M. Barth, H. Haider, & C. Stahl (Eds.), *Abstracts of the 64th Conference of Experimental Psychologists* (p. 105). Pabst Science Publishers. https://doi.org/g9tsqd (Conference abstract)

- Laybourn, S., Frenzel A. C., **Constant M.**, Liesefeld, H. R. (2022). Unintended emotions in the laboratory: Emotions incidentally induced by a standard visual working memory task predict task performance. *Journal of Experimental Psychology: General, 151*(7), 1591 – 1605. https://doi.org/hh3g [accepted version, data]
- **Constant, M.**, & Liesefeld, H. R. (2021). Massive effects of saliency on information processing in visual working memory. *Psychological Science*, *32*(5), 682–691. https://doi.org/gjk9jh [pdf, supplements, preprint, data]
- **Constant, M.**, & Liesefeld, H. R. (2020). The role of saliency for visual working memory in complex visual scenes. *Journal of Vision*, *20*(11), 499. https://doi.org/10/fgf4 (Conference abstract)
- **Constant, M.**, & Mellet, E. (2018). The impact of handedness, sex, and cognitive abilities on left–right discrimination: A behavioral study. *Frontiers in Psychology*, *9*. https://doi.org/gdbb4f [pdf]

## Conferences

The asterisk * signals presenters other than myself.

- IOP 2025**. Constant, M.**, Mandal, A., Asanowicz, D., Panek, B., Kotlewska, I., Yamaguchi, M., Gillmeister, H., Kerzel, D., Luque, D., Molinero, S., Millán, A. V., Pesciarelli, F., Borelli, E., Ramzaoui, H., Beck, M., Somon, B., Desantis, A., Castellanos, M. C., Martín-Arévalo, E., … Liesefeld, H. R. (Talk, 09/07/2025). A large-scale replication of Eimer (1996): Can the N2pc be elicited by an isolated target?
- VSS 2025. **Constant, M.**, & Kerzel, D. (Poster, 17/05/2025). Effects of salience on visual working memory disappeared! Context during retrieval matters. [poster]
- VSS 2025. Fortuna, A.*, **Constant, M.**, & Kerzel, D. (Poster, 20/05/2025). The impact of retro-cue validity on working memory and attentional template efficiency. [poster]
- 53rd DGPs Congress/15th ÖGP Conference. Liesefeld H. R.*, & **Constant, M.** (Talk, 18/09/2024). Overly simplistic displays conceal the importance of salience for human cognition. [abstracts]
- VSS 2024. **Constant, M.**, & Kerzel, D. (Poster, 18/05/2024). Cues improve visual working memory but fail to counteract the effects of salience. [poster]
- "Handling Visual Distraction". **Constant, M.**, & Liesefeld, H. R. (Poster, 23/07/2022. Examining the effect of saliency on EEG markers of attention allocation and maintenance in a visual-working-memory task. [abstracts]
- VSS 2022. Liesefeld, H. R.*, **Constant, M.,** & Oberauer, K. (Poster, 17/05/2022 [in-person] and 02/06/2022 [online]). The consequences of effects of saliency are long-lived (and stubborn). [poster]
- VSS 2022. **Constant, M.**, & Liesefeld, H. R. (Poster, 14/05/2022 [in-person] and 01/06/2022 [online]). Examining the effect of saliency on EEG markers of attention allocation and maintenance in a visual-working-memory task. [poster]
- TeaP 2022. **Constant, M.,** & Liesefeld, H. R. (Talk, 23/03/2022). Electrophysiological markers of saliency-dependent visual-working-memory processing. [slides]
- VWMS 2021. **Constant, M**., & Liesefeld, H. R. (Talk, 02/06/2021). Investigating saliency-dependent working memory encoding using ERP components. [program, video, slides]
- GSN retreat 2020. **Constant, M.** & Liesefeld, H. R. (Talk, 19/10/2020). Massive effects of saliency on information processing in visual working memory. [program]
- VSS 2020. **Constant, M.**, & Liesefeld, H. R. (Poster, 21/06/2020). The role of saliency for visual working memory in complex visual scenes. [poster, poster tour]
- VWMS 2020. **Constant, M.**, & Liesefeld, H. R. (Talk, 04/06/2020). Massive effects of saliency on information processing in visual working memory. [program, video, slides]

## Projects

- #EEGManyLabs N2pc Eimer (1996) replication co-lead (with Heinrich R. Liesefeld) [OSF project, publication]
- EEGManyPipelines replication team (with Heinrich R. Liesefeld and Anna M. Liesefeld)

## Awards

- Early Career Researcher Swiss Reproducibility Award 2024 [pdf]
- V-VSS 2020 Elsevier/Vision Research Travel Award [link]

## Ad-hoc reviewing

*Brain and Cognition*, *Scientific Reports*, *Social Sciences & Humanities Open*, *Memory*, *International Journal of Psychophysiology*, *Frontiers in Psychology*, *Visual Cognition*, *European Journal of Neuroscience*, *PeerJ*, *Psychonomic Bulletin and Review, Memory & Cognition*

## Skills

- Multi-lab (22 labs worldwide) project management
- Open Science (Data & code curation, pre-registration/registered reports, preprints, ReproducibiliTea)
- Data analysis (Behavioral, EEG; with Python/MATLAB/R)
- Experiment conception (Lab: OpenSesame/PsychoPy, PsychToolbox, E-Prime; Online: JavaScript)
- Programming languages (Python, MATLAB, R, JavaScript, HTML, Bash, LaTeX, Jupyter, RMarkdown)
- Version control (Git, SVN)
- Lab management: Purchase and maintenance of scientific and computer equipment, software management, consumables management & training of research assistants/master students

## Teaching

- Supervision of 3 Master students' research projects
  *2023 – 2026, Master in Psychology, University of Geneva*
- Introduction to experimental programming
  *Fall Semester 2023 & 2024, Master in Psychology, University of Geneva*
  *Created the pedagogical material (lessons + exercices) to transition from MATLAB to Python.*
- Attention and executive functions
  *Spring Semester 2024 & 2025, Master in Psychology, University of Geneva*
- Workshop "Version control with Git" (27/04/2022)
  *Research Unit "Modal and Amodal Cognition" (FOR 2718) Retreat, University of Tübingen*
- Neuro-cognitive Methods II (seminar), in collaboration with PD Dr. Artyom Zinchenko
  *Winter Semester 2020/2021, Master in Neuro-Cognitive Psychology, LMU München*
  *Teaching EEG recording (with eyetracker), and data analysis (preprocessing and ERP).*
  *Created the pedagogical material to transition from BrainVision Analyzer to EEGLAB and ERPLAB.*