Maurício Martins | Curriculum Vitæ

Assistant Professor, Faculty of Psychology and Education Sciences, University of Porto

universo.enfim@gmail.com • https://mauriciojdmartins.com • https://orcid.org/0000-0003-0247-8473

Computational Social Sciences; Political Psychology; Cognitive Science

Education

2010-2014	PhD in Neuroscience, Lisbon Faculty of Medicine, Portugal (with honours and distinction), conferred on the 08.9.2014
2002-2009	Integrated Master in Medicine, Lisbon Faculty of Medicine, Portugal

Career

2026-	Faculty of Psychology and Education Sciences, University of Porto (Assistant Professor)
2025-2026	Center for Research in Applied Communication, Culture, and New Technologies, Lusófona University (Associated Researcher)
2022-2025	Social Cognitive and Affective Neuroscience Unit, University of Vienna (Computational Political Psychology group leader)
2021-2022	School of Collective Intelligence, Mohammed VI Polytechnic University, Morocco (Assistant Professor, Coordinator of the Master's Program)
2019-2021	Département d'Etudes Cognitives, École Normale Supérieure, Paris (Post Doc Fellow).
2014-2022	Max Planck Institute for Human Cognitive and Brain Sciences, Leipzig (Post Doc Fellow).
2014-2019	Berlin School of Mind and Brain, Humboldt Universität zu Berlin (Post Doc Fellow)
2012-2014	Shared Neural Resources Research Cluster, University of Vienna and Medical University of Vienna (PhD Student – Cluster Coordinator)
2010-2014	Department of Cognitive Biology, University of Vienna (PhD student)

Research Profile

I am an Assistant Professor at the Faculty of Psychology and Education Sciences. My research combines large-scale natural language processing, political psychology, and computational social science to study democratic preferences, epistemic trust in institutions, stances on climate activism, and long-term socio-political change. I develop methods to analyze historical and contemporary text corpora (newspapers, fiction, media coverage, lyrics) using NLP, LLM-based annotation, network, and time-series models, with publications in outlets such as *Trends in Cognitive Sciences*, *PNAS*, *Humanities and Social Sciences Communications*, *Scientific Reports*, and *npj Climate Action*.

A complementary line of research investigates the evolution of hierarchical cognition in vision, music, language, and action, using behavioral and neuroimaging methods with neurotypical and atypical populations. These studies, published in journals such as *Brain*, *eLife*, *NeuroImage*, *Annals of the NYAS,* and *Cognition*, provide a theoretical and methodological framework for understanding complex hierarchical processing.

My work is funded by the FCT (Science and Technology Foundation) and embedded in international consortia (e.g., ANR-funded projects at ENS-PSL, the EU HORIZON CRESCINE project, and seed grants from the James S. McDonnell Foundation and the University of Vienna). It is fully open science, with preregistered studies and shared materials on the OSF (https://osf.io/6rbzu/).

Publications (34 peer-reviewed journal papers
22 first and 6 senior author; h-index: 19; citations: 1269)
https://scholar.google.com/citations?user=S6WZ6y0AAAAJ&hl=en

Ten most important publications

1. **Martins M**, Baumard N (2020). The rise of prosociality in fiction preceded democratic revolutions in Early Modern Europe. *PNAS* 117 (46) https://doi.org/10.1073/pnas.2009571117

2. Baumard N, Safra L, **Martins M.**, Chevallier C (2023). Cognitive fossils: How literature, music and the arts can be used to recover psychological changes throughout history. *Trends in Cognitive Sciences.* https://doi.org/10.1016/j.tics.2023.10.001

3. Forametti M, Nater U, Lamm C, **Martins M** (2025). Rising Stress, Negativity, and Simplicity in US Billboard Top 100 Song Lyrics (1973–2023) are Disrupted by Societal Crises. *Scientific Reports* https://doi.org/10.1038/s41598-025-28327-5

4. Reiter D, Lamm C, **Martins M** (2026). From Singing in the Rain to Tears in the Rain: Socio-demographic Trends and Pessimism during New Hollywood. *Humanities and Social Sciences Communications* https://doi.org/10.1057/s41599-026-06532-5

5. Mayrhofer, L., Foramitti, M., Fassnacht, S., Köhler, J. K., Todorova, B., Lamm, C., & **Martins, M.** (2026). Radical climate protests shaped portrayals of moderate activists and reader attitudes in German news media. *npj Climate Activism* https://doi.org/10.1038/s44168-026-00361-7

6. **Martins M,** Krause C, Neville D, Pino D, Villringer A, Obrig H (2019). Recursive Hierarchical Embedding in vision is impaired by posterior Middle Temporal Gyrus lesions. *Brain* 142 (10) https://doi.org/10.1093/brain/awz242

7. Fitch WT, **Martins M** (2014). Hierarchical Processing in Music, Language and Action: Lashley revisited. *Annals of the New York Academy of Sciences* 1316 https://doi.org/10.1111/nyas.12406

8. **Martins M** (2012). Distinctive signatures of recursion. *Phil. Trans. R. Soc. B* 367 https://doi.org/10.1098/rstb.2012.0097

9. Fischmeister F, **Martins M**, Beisteiner R, Fitch WT (2016). Self-similarity and Recursion as Default Modes of Human Cognition. *Cortex* 97 https://doi.org/10.1016/j.cortex.2016.08.016.

10. **Martins M**, Fishmeister F, Puig Waldmüller E, Oh J, Geissler A, Fitch WT, Beisteiner R (2014). Fractal Image Perception provides Novel Insights into Hierarchical Cognition. *NeuroImage 96* https://doi.org/10.1016/j.neuroimage.2014.03.064

Submitted/Preprints

Thaler F, Doell, K, Lamm C, **Martins M** (revision after review, *Behavior Research Methods*). Advanced Attention Checks: Using Large Language Models to Evaluate Semantic Compliance in Online Experiments

Kvasin M, Lamm C, **Martins M** (revision after review *Democratization*). When Culture Follows, Not Leads: The Case of Exogenous Democratization in Germany (1890-1945) https://osf.io/preprints/osf/un26x_v1

Martins M, Barner D, Baumard N (preprint). Quantifying Numeric Cognition in Early Modern Theatre: Psychological and Environmental Determinants of Numeracy Before the Industrial Revolution. https://psyarxiv.com/rn6mg

Nika C, Wichary S, Lamm C, **Martins M** (submitted) When Culture Predicts Political Change: Cooperation, Trust, and Democratic Dynamics in American Cinema (1960–2018)

Foramitti M, Reiter D, **Martins M**, (submitted) Fast Love in Hard Times: Societal Stress Shapes Romantic Representations Across Five Decades of US Songs and Movies

Accepted and published

1. Mayrhofer, L., Foramitti, M., Fassnacht, S., Köhler, J. K., Todorova, B., Lamm, C., & **Martins, M.** (2026). GPT outperforms BERT and LIWC for stance and anger detection in German news articles and user comments. *Frontiers in Political Science*. https://doi.org/10.3389/fpos.2026.1745587

2. **Martins M,** Cook D, Villringer A. (2026). Recursion Beyond Language: Lexical and Arithmetic Interference in Visual Hierarchical Embedding. *Psychological Research* https://doi.org/10.1007/s00426-026-02252-2

3. Reiter D, Lamm C, **Martins M** (2026). From Singing in the Rain to Tears in the Rain: Socio-demographic Trends and Pessimism during New Hollywood. *Humanities and Social Sciences Communications* https://doi.org/10.1057/s41599-026-06532-5

4. Mayrhofer, L., Foramitti, M., Fassnacht, S., Köhler, J. K., Todorova, B., Lamm, C., & **Martins, M.** (2026). Radical climate protests shaped portrayals of moderate activists and reader attitudes in German news media. *npj Climate Activism* https://doi.org/10.1038/s44168-026-00361-7

5. Forametti M, Nater U, Lamm C, **Martins M** (2025) Rising Stress, Negativity, and Simplicity in US Billboard Top 100 Song Lyrics (1973–2023) are Disrupted by Societal Crises. *Scientific Reports* https://doi.org/10.1038/s41598-025-28327-5

6. Rosselló J, Celma-Miralles A, **Martins M** (2025). Visual Recursion can Develop in the Absence of Linguistic Recursion: A Case Study. *Frontiers in Psychiatry* https://doi.org/10.3389/fpsyt.2025.1540985

7. **Martins M** (2025) From Fractal Geometry to Fractal Cognition: Experimental Tools and Future Directions for Studying Recursive Hierarchical Embedding. *Fractal and Fractional* *9*(10), 654 https://doi.org/10.3390/fractalfract9100654

8. **Martins M,** Bergmann Z, Leonova E, Bianco R, Sammler D, Villringer A (2025). Acquisition and Utilization of Recursive Rules in Motor Sequence Generation. *Cognitive Science* https://doi.org/10.1111/cogs.70108

9. **Martins, M.** (2024). Cognitive and Neural Representations of Fractals in Vision, Music, and Action. In: Di Ieva, A. (eds) The Fractal Geometry of the Brain. *Advances in Neurobiology*, vol 36. Springer, Cham. https://doi.org/10.1007/978-3-031-47606-8_46

10. **Martins M** & Baumard N (2023). Reproductive Strategies and Romantic Love in Early Modern Europe. *Archives of Sexual Behavior*. https://doi.org/10.1007/s10508-023-02759-4

11. Scholz R, Villringer A & **Martins M** (2023). Distinct hippocampal and cortical contributions in the representation of hierarchies. *eLife* 12 https://doi.org/10.7554/eLife.87075.1

12. Baumard N, Safra L, **Martins M.**, Chevallier C (2023). Cognitive fossils: How literature, music and the arts can be used to recover psychological changes throughout history. *Trends in Cognitive Sciences.* https://doi.org/10.1016/j.tics.2023.10.001

13. **Martins M**, Baumard N (2022). How to Develop Reliable Instruments to Measure the Cultural Evolution of Preferences and Feelings in History? *Frontiers in Psychology* 13 https://doi.org/10.3389/fpsyg.2022.786229

14. **Martins M**, Baumard N (2020). The rise of prosociality in fiction preceded democratic revolutions in Early Modern Europe. *PNAS* 117 (46) https://doi.org/10.1073/pnas.2009571117

15. **Martins M,** Fischmeister F, Gingras B, Bianco R, Puig-Waldmueller E, Villringer A, Fitch WT & Beisteiner. (2020). Recursive music elucidates neural mechanisms supporting the generation and detection of melodic hierarchies. *Brain Structure and Function*, 225 https://doi.org/10.1007/s00429-020-02105-7

16. Udden J, **Martins M**, Zuidema J, Fitch WT (2020). Hierarchical structure in sequence processing: how do we measure it and what's the neural implementation? *Topics in Cognitive Science* 12(3), 910–924 https://pubmed.ncbi.nlm.nih.gov/31364310/

17. **Martins M,** Krause C, Neville D, Pino D, Villringer A, Obrig H (2019). Recursive Hierarchical Embedding in vision is impaired by posterior Middle Temporal Gyrus lesions. *Brain* 142 (10) https://doi.org/10.1093/brain/awz242

18. **Martins, M**, Bianco, R., Sammler, D., & Villringer, A. (2019). Recursion in action: An fMRI study on the generation of new hierarchical levels in motor sequences. *Human brain mapping* 40(9) https://doi-org.uaccess.univie.ac.at/10.1002/hbm.24549

19. **Martins M**, Gingras B, Puig-Waldmueller E., Fitch WT (2017). Cognitive representation of "musical fractals": Processing hierarchy and recursion in the auditory domain. *Cognition* 161 https://doi.org/10.1016/j.cognition.2017.01.001

20. **Martins M,** Di Paolo L, (2017). Hierarchy, multi-domain modules and the evolution of intelligence: a commentary to Burkart et al. (2016) *Behavioral and Brain Sciences 40* https://doi.org/10.1017/S0140525X16001710

21. Fischmeister F*, **Martins M***, Beisteiner R, Fitch WT (2016). Self-similarity and Recursion as Default Modes of Human Cognition. *Cortex* 97 https://doi.org/10.1016/j.cortex.2016.08.016. (*shared 1st)

22. **Martins M**, Martins IP, Fitch WT (2016). A novel approach to investigate recursion and iteration in visual hierarchical processing. *Behavioral Research Methods*. *48*(4) https://doi.org/10.3758/s13428-015-0657-1

23. Albuquerque L, **Martins M**, Coelho M, Guedes, L, Ferreira JJ, Rosa M, Martins IP (2015). Advanced Parkinson disease patients have impairment in prosodic processing. *Journal of Clinical and Experimental Neuropsychology* 38 (2) https://doi.org/10.1080/13803395.2015.1100279

24. **Martins M**, Mursic Z, Oh J, Fitch WT (2015). Representing visual recursion does not require verbal or motor resources. *Cognitive Psychology* 77 https://doi.org/10.1016/j.cogpsych.2015.01.004

25. **Martins M**, Fitch WT (2015) Do we represent intentional action as recursively embedded? The answer must be empirical – a comment on Vicary and Adenzato (2014) *Consc. & Cogn.* 38 https://doi.org/10.1016/j.concog.2015.10.003

26. **Martins M**, Laaha S, Freiberger E, Choi S, Fitch WT (2014). How children perceive fractals: hierarchical self-similarity and cognitive development. *Cognition* 133 https://doi.org/10.1016/j.cognition.2014.05.010

27. Ravignani A*, **Martins M*** & Fitch WT (2014). Vocal learning, prosody and basal ganglia: Don't underestimate their complexity. *Behavioral and Brain Sciences* 37 (06) (*shared 1st) https://doi.org/10.1017/S0140525X13004184

28. **Martins M**, Fishmeister F, Puig Waldmüller E, Oh J, Geissler A, Fitch WT, Beisteiner R (2014). Fractal Image Perception provides Novel Insights into Hierarchical Cognition. *NeuroImage 96* https://doi.org/10.1016/j.neuroimage.2014.03.064

29. Fitch WT, **Martins M** (2014). Hierarchical Processing in Music, Language and Action: Lashley revisited. *Annals of the New York Academy of Sciences* 1316 https://doi.org/10.1111/nyas.12406

30. Albuquerque L, Coelho M, **Martins M**, Martins IP (2014). STN-DBS does not change emotion recognition in Parkinson's disease. *Parkinsonism and Related Disorders* https://doi.org/10.1016/j.parkreldis.2014.01.020

31. Albuquerque L, Coelho M, **Martins M**, Guedes LC, Rosa MM, Ferreira JJ, Catton MB, Carvalho H, Ferreira AG, and Martins IP (2014). STN-DBS does not change emotion recognition in advanced Parkinson´s disease. *Parkinsonism & Related Disorders* 20(2) https://doi.org/10.1016/j.parkreldis.2013.10.010

32. **Martins M** (2012). Distinctive signatures of recursion. *Phil. Trans. R. Soc. B* 367 https://doi.org/10.1098/rstb.2012.0097

33. **Martins M**, Moura BM, Martins IP, Figueira ML, Prkachin K (2011). Sensitivity to expressions of pain in Schizophrenia patients. *Psychiatry Research* 189 https://doi.org/10.1016/j.psychres.2011.03.007

34. **Martins M**, Martins IP (2010). Memory Malingering: evaluating WMT criteria. *Applied Neuropsychology* 17(3) https://doi.org/10.1080/09084281003715709

Book chapters

35. **Martins, M**, Fitch, WT (2014). Investigating recursion within a domain-general framework. In *Language and Recursion* (Eds. F. Lowenthal & L. Lefebre), pp. 15-26. Springer, New York. https://doi.org/10.1007/978-1-4614-9414-0_2

36. **Martins M**, Raju A, Ravignani A (2014). Evaluating the role of quantitative modelling in language evolution". In *The Past, Present and Future of Language Evolution Research* (Eds. Luke McCrohon, Hajime Yamauchi, Bill Thompson & Tessa Verhoef), pp 84-93. Evolang 9 Local Organizing Committee. https://core.ac.uk/download/pdf/294828512.pdf

Selected papers in (peer-reviewed) conference proceedings

37. **Martins M** (2018).The human arcuate fasciculus provides specific advantages to process complex sequential stimuli, not hierarchies in general. *In The Evolution of Language - Proceedings of the 12th International conference* (Eds. C. Cuskey, L. McCrohon, M. Flaherty,A. Ravignani, H. Little, T. Verhoef)

38. Cook D**, Martins M** (2018). How domain-specific is Merge? *In The Evolution of Language - Proceedings of the 12th International Conference* (Eds. C. Cuskey, L. McCrohon, M. Flaherty,A. Ravignani, H. Little, T. Verhoef). https://evolang.org/torun/proceedings/paperpdfs/Evolang_12_paper_23.pdf

39. **Martins, M** (2017). The Cognitive Architecture of Recursion: Behavioral and fMRI Evidence from the Visual, Musical and Motor Domains. *In Proceedings of the 39th Annual Conference of the Cognitive Science Society* (Eds. G. Gunzelmann, A. Howes, T. Tenbrink, & E. J. Davelaar), pp. 1920-1924. Austin, TX: Cognitive Science Society. https://hdl.handle.net/21.11116/0000-0004-C619-1

40. **Martins M,** Haun D, Wilfing H (2015). Social norm change in the context of a development assistance project in Madagascar. *6th Conference of Exp Phil Group UK: Joining Forces of Philosophy and the Empirical Sciences to Tackle Social Injustices.* https://hal.science/hal-01599175v1

41. **Martins M** (2014). Recursion is not language domain-specific: interim results of a research program. In *The Evolution of Language - Proceedings of the 10th International conference* (Eds. Erica A Cartmill, Seán Roberts, Heidi Lyn, Hanna Cornish), pp.177-184. Singapore: World Scientific. https://doi.org/10.1142/9789814603638_0021

42. **Martins M**, Fischmeister F, Puig-Waldmueller E, Geissler A, Oh J, Fitch WT, Beistiner R. (2014). Discrimination of self-similar visual hierarchies activates the parieto-medial temporal pathway. In *the 20th Annual Meeting of the Organization for Human Brain Mapping (OHBM), Volume: 5*

43. **Martins M**, Fitch WT (2012). Empirical Approaches to Recursion. In *The Evolution of Language - Proceedings of the 9th International conference* (Eds. Scott-Phillips, Monica Tamariz, Erica A Cartmill and James R Hurford), pp.219-225. Singapore: World Scientific. https://doi.org/10.1142/9789814401500_0029

Awards and grants

A selection of competitive grants, fellowships, and prizes obtained or reached final-stage consideration:

2026 – FCT Project R&D Grant 2025.18302.PTDC for the project "Stress, Cooperation, and Cultural Complexity: A Computational Historical Analysis of Democratic Dynamics" (250k €)

2026 – Richard Green Founding Editor Essay Award, for best paper in the Archives of Sexual Behavior by the International Academy of Sex Research (1k €)

2025 – Microsoft Azure University of Vienna Award. Title: "Building and Evaluating Historical Large Language Models for Understanding Psychological Dimensions in Fiction" (2k €)

2024 – Final stage, WWTF Digital Humanism Fellowship (600K €; 6 positions; not awarded)

2022 – Collaborative Seed Grant (w/ Stephen Ferrigno), James S. McDonnell Foundation, Title: "Visuospatial recursion in non-human primates" (20k €)

2022 – Final interview stage, WWTF young group leader Programme (1.6M €; 2 positions, not awarded)

2019 – Final interview stage, VW Freigeist Fellowship (1M€; 10 positions, not awarded)

2016 – Best paper, 2015 - Portuguese Association of Experimental Psychology.

2014 – Best PhD presentation - Science Day 2014 (Faculty of Life Sciences, University of Vienna)

2014 – Hurford prize: Best student oral presentation of the 10th International Conference on the Evolution of Language.

2009 – FCT PhD research grant number SFRH/BD/64206/2009 for the project "Language Evolution and Recursion: Developing Analysis Methods for Recursive Patterns Recognition" (4 years funding): 90K €

2007/2008 – 2 GAPIC undergraduate research grants: 4K

Teaching and supervision

Co-supervisor of 2 **PhD theses** (ongoing) at the interdisciplinary **MSCA Doctoral Network on Adolescence & Politics**.

Supervised 15 **master's theses** at the Berlin School of Mind and Brain, University of Vienna, and University of Porto.

Coordinated and **restructured** the Master's program at the School of Collective Intelligence (2021).

I have **over 400** hours of teaching experience, with high student evaluations (attached). I taught a variety of courses – **which I developed** - at different academic levels:

- Courses on **Computational Social Sciences** and **Political Psychology**:
    - Psychology Bachelor's and Master's programs at the *University of Vienna (6 semesters)*
    - Erasmus+ Master's program in Transition, Innovation, and Sustainability Environments at *Krems University (2 semesters, invited)*.
    - Master's program on Collective Intelligence at the *University Mohammed VI Polytechnic (1 semester)*

- Courses on **Neurophysiology** at the Berlin School of Mind and Brain, Humboldt Universität (3 semesters)

- **Invited lectures for PhD programs**:
    - Computational Social Sciences for MSCA Doctoral Network on Adolescence & Politics;
    - Evolution of Higher Cognitive functions at the Max Planck School of Cognition, and UCL Summer School.
    - *Computational Social Sciences* as **Visiting Professor** at Scuola IMT Alti Studi Lucca (6 weeks - 18 h)

Invited talks

Over 14 invited talks at institutions including Harvard, UCL, LMU Munich, Zurich, Geneva, City University London, and the Complexity Science Hub Vienna.

1. 'Historical Psychology Meets Structural Demographic Theory: Mass Mobilization Predicts a Decline of Cultural Complexity and Prosociality in US Movies'. *Crisis and Resilience Workshop. Complexity Science Hub, Vienna (November 2026)*
2. 'What happens to epistemic trust when the world changes faster than institutions?'. *City University London* (December 2024)
3. 'Using Historical Psychology to Understand Social and Political Change'. *Royal Holloway, Centre for the Politics of Feelings* (December 2023)
4. 'The rise and fall of epistemic authorities: a cognitive and information theoretical model'. *City University London* (November 2023)
5. 'Using Historical Psychology to Understand Social and Political Change'. *Complexity Science Hub, Vienna.* (April 2023)
6. 'The rise of prosociality in fiction preceded democratic revolutions in Early Modern Europe'. *Cognition, Values and Behaviour group colloquium*. Ludwig Maximilian University of Munich (Feb 2021)

'Recursive Hierarchical Embedding in the Visual, Musical and Motor Domains':

7. *Department of Comparative Language Science Colloquium,* University of Zurich (Sept 2022).
8. *Neuropsycholinguistics Lab Seminar*, University of Geneva (Feb 2021).
9. *McDonnell Foundation Workshop on Recursion*, Harvard, Boston, MA (Jan 2021).
10. *PAD Seminar,* Royal Holloway, University of London *(*December 2020*)*
11. *Meeting of the central UCL auditory research group,* UCL Ear Institute (November 2020).
12. *Guest Colloquium, Master Program "Developmental, Cognitive and Neuroscience"*, Department of Psychology, University of Zurich (Nov 2020)
13. *Workshop Ontogeny of hierarchical cognition: variations and commonalities between domains*. Leipzig (September 2019)
14. *Workshop Artificial Grammar Learning: Implications of domain, modality and species differences* Torun, Poland (April 2018)
15. *Seminar Introduction to language, music, and cognition*. Musikwissenschaftliches Institut, University of Cologne (October 2017)

Service & Administration

- **Hiring & recruitment:** Member of the hiring committee for three new PhD positions in the MSCA Doctoral Network on Adolescence & Politics (University of Vienna, 2023). Reviewer of ~400 PhD applications for the Berlin School of Mind and Brain (2017–2023) and 50 applications for the School of Collective Intelligence (2021).

- **Program leadership:** Coordinator of the Master's Program at the School of Collective Intelligence (2021).

- **Scientific governance:** Member of the Scientific Committee for the International Conference on the Evolution of Language (2020) and the Joint Conference on Language Evolution (2022).

- **Grant reviewing:** Reviewer for three proposals for the Agence Nationale de la Recherche (ANR).

- **Journal and conference peer review:** Regular reviewer for *Nature Communications*, *Science Advances*, *Philosophical Transactions of the Royal Society B*, *Cortex*, *Cognition*, *Psychological Research*, *Psychonomic Bulletin & Review*, *Mind & Language*, *Scientific Reports*, and many others.

- **Editorial activities:** Editorial Board of Humanities and Social Sciences Communications (Springer Nature)

- **Professional membership:** Cognitive Science Society; Portuguese Association of Experimental Psychology.

Media & Outreach

- **Media coverage:** Our study "Societal crises disrupt long-term increases in stress, negativity, and simplicity in US Billboard song lyrics from 1973 to 2023" was in the top 1% most discussed studies in the global media. We did live interviews for **CBS News, The Times, BBC World,** and were covered by newspapers all over the world, including the **Daily Mail, Die Zeit, Der Spiegel** and many others https://www.nature.com/articles/s41598-025-28327-5/metrics

- **Scientific advisor and commentator** for the documentary *Terra X: Supertalent Mensch II* (ZDF, Germany).

- **Public interview** on The Dissenter podcast (international audience; long-form scientific communication; https://www.youtube.com/watch?v=CP3b5INr00A).

- **Policy and development consulting:** Advisor for the NGO *We Work It Works* on development assistance; co-authored report available through HAL (https://hal.science/hal-01599175v1).

Professional Networks & Collaborations

- I have developed long-term collaborations across leading psychology and cognitive science centres, including Humboldt Universität zu Berlin (Berlin School of Mind and Brain), the École Normale Supérieure (Département d'Études Cognitives), the Max Planck Institute for Human Cognitive and Brain Sciences (Leipzig), and the Faculty of Psychology at the University of Vienna (SCAN-Unit).

- I was part of the CICANT team at Lusófona University within the EU-funded HORIZON project CRESCINE (Grant No. 101094988), leading work on computational models that predict film audience choices from psychological characteristics.

- My research on historical psychology and computational social science has been conducted within international consortia funded by agencies such as the Agence Nationale de la Recherche (with Nicolas Baumard, Coralie Chevallier and Lou Safra at ENS) and supported by competitive seed grants from the University of Vienna (Azure services award).

- I have supervised and co-supervised Master's and PhD projects with students who are now embedded in research groups across Europe (e.g. Max Planck, ENS, University of Vienna), further extending my collaborative network in experimental psychology, political psychology, and computational social science.

Languages and skills

Portuguese (native), English (fluent), Spanish (intermediate), Italian (intermediate), French (intermediate), German (beginner B1).

Python, R, NLP (topic modelling, word embeddings, transformer-based models), LLM-based annotation and prompting, network analysis, time-series modelling, mixed-effects models, survey and experimental design, fMRI and lesion-based methods, preregistration and reproducible pipelines (OSF)