

Ana Luísa Pinho

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Research Interests

Cognitive & Systems Neuroscience and Music Cognition

- Development of deep-behavioral-phenotyping strategies, namely data-driven approaches in large task-fMRI datasets, to inspect cognitive components of the phenotype and their network consistency/variability across individuals
- Investigation of high-order neurocognitive mechanisms involved in both musical performance and perception

Neuroimaging

- Focus in Functional Magnetic Resonance Imaging (fMRI)

Functional Brain Atlasing

- Development of encoding models, leveraging machine-learning techniques, to perform functional mapping of cognition in the human brain
- Development of a common framework of psycho-physiological constructs

Data Science and Neuroinformatics

- Development of big-data and data-sharing frameworks to facilitate mega-analyses and reproducibility in systems neuroscience and neuroimaging.
- Revision of large-scale cognitive ontologies

Current position

2021 – Present [BrainsCAN Postdoctoral Fellow](#) Tier I, University of Western Ontario, London ON, Canada
Faculty Advisor and Collaborator: Jessica Grahn and Jörn Diedrichsen

Appointments held

2015 – 2020 *Postdoctoral Researcher*, Parietal Team, Inria Saclay Centre, Paris-Saclay University, France
Advisor: Bertrand Thirion

Education

2009 – 2015 PhD in Health Sciences (branch: Biomedical Sciences)
Institutions: Karolinska Institutet (Stockholm, Sweden) and
Faculty of Medicine of the University of Coimbra (Coimbra, Portugal)
Thesis title: *Inside of the Creative Mind: Unravelling the Neurocognitive Mechanisms of Musical Creativity* (<http://hdl.handle.net/10316/27005>)
Faculty Advisors: Fredrik Ullén, Örjan de Manzano, Peter Fransson, Miguel Castelo-Branco

1999 – 2008 MSc + LICENTATE DEGREES (Integrated Master) in Engineering Physics
Institution: Instituto Superior Técnico (IST), University of Lisbon (Lisbon, Portugal)
Thesis Title: *Probabilistic non-linear earthquake location in a 3-D velocity model*
(<https://fenix.tecnico.ulisboa.pt/cursos/meft/dissertacao/2353642196027>)
Faculty Advisor: João Fonseca

Fellowships, Grants & Awards

2025 [Trainee Speaker Award](#) at SONA2025 (“Southern Ontario Neuroscience Association” conference) at Western University, London Ontario, Canada

2021 – Present Tier I [BrainsCAN Postdoctoral Fellowship](#) Canada First Research Excellence Fund (CFREF), Canada
Amount (5y): ~**389.000 CAD**

2013 – 2014 Research Grant, Sven and Dagmar Saléns Foundation (Stockholm, Sweden)
Amount: ~**144.000 SEK**

2013 Prize of *The Best Poster Communication* in the Symposium “Music, Poetry & The Brain - Celebrating Wagner’s Bicentennial”, Rectory of NOVA University Lisbon (Lisbon, Portugal)

2009 – 2013 PhD Studentship from Foundation for Science and Technology (FCT) (SFRH/BD/33895/2009) under the PHD Programme in Experimental Biology and Biomedicine of Center for Neuroscience and Cell Biology, University of Coimbra (Coimbra, Portugal)
Amount: ~**80.153 €**

2006 – 2007 Scientific Initiation Grant in Seismology from FCT, Instituto Superior Técnico (Lisbon, Portugal)
Amount: ~**3.600 €**

Research

RESEARCH EXPERIENCE

- 2021 – Present *Postdoctoral Fellow*: (1) application of brain-atlasing techniques and musical tasks to chart the cortico-basal ganglia-cerebellar circuitry involved in the cognitive ability of forming temporal predictions during rhythmic and non-rhythmic sequences of events; (2) development of individualized encoding models suitable to be used in an ensemble of fMRI datasets, wherein individual parcellations on functional maps of the human brain can be extracted through integration of group-level parcels with individual data and using a hierarchical Bayesian parcellation scheme.
- 2015 – 2020 *Postdoctoral Researcher*: (1) development of a multimodal neuroimaging dataset for large-scale functional atlasing and cognitive mapping of the human brain; (2) application of mega-analytic encoding models to fMRI data for brain atlasing, namely for the improvement of functional specificity in neuroimaging relative to elementary cognitive components that modulate behavior.
- 2010 – 2014 *Graduate Researcher*: investigation of the neural correlates of musical creativity, using fMRI as neuroimaging technique and musical improvisation as model behavior.
- 2005 – 2006 *Undergraduate Research Assistant*: process and analysis of seismic data and maintenance of the IST seismic stations.

MAIN SCIENTIFIC PROJECTS

- 2022 – Present *NeuroCausal* / Main Investigators: Valentina Borghesani, Sladjana Lukic, Pedro Pinheiro-Chagas, Isil Bilgin
- 2021 – Present *BrainsCAN Postdoctoral-Fellowship Project: Novel brain atlasing techniques to reveal the cerebellar role in music cognition* / Main Investigator: **Ana Luísa Pinho** (with supervision from Faculty Advisors: Jessica Grahn and Jörn Diedrichsen)
- 2021 – Present Canadian Institutes Health Research (CIHR). Title: *Mapping the Human Cerebellum* / Principal Investigator: Jörn Diedrichsen
- 2020 – Present *WHATNET* / Principal Investigators: Lucina Uddin, Nathan Spreng, Thomas Yeo
- 2016 – 2021 NSERC Discovery Grant. Title: *Neural Organization of Hierarchical Motor Sequence Representations in the Human Neocortex* / Principal Investigator: Jörn Diedrichsen
- 2015 – 2020 *Individual Brain Charting (IBC): SP2 Human Brain Organization – Work Package 2.1 “Multimodal whole mapping” of the Human Brain Project (HBP)* / Principal Investigator: Bertrand Thirion
- 2011 – 2014 *Kartläggning av hjärnområden involverade i hierarkisk kontroll av långa motoriska sekvenser hos musiker och icke-musiker* (“Mapping of brain areas involved in the hierarchical control of long motor sequences of musicians and non-musicians”) – *Swedish Research Council* (Grant: 521-2010-3195) / Principal Investigator: Fredrik Ullén

News&Views

- 2025 Aggarwal, H., Ponce, A. F., Shankar, S., Mzayek, Y., Pérez-Millan, A., **Pinho, A. L.**, Thual, A., & Thirion, B. Subject fingerprinting and task classification rely on distinct functional connectivity features (*journal article under review*.)
- 2025 Aggarwal, H., Ponce, A. F., Shankar, S., Torre, J. J., Thual, A., **Pinho, A. L.**, Ginisty, C., Lecomte, Y., Berland, V., Beriot, L., Laurier, L., Joly-Testault, V., Médiouni-Cloarec, G., Hertz-Pannier, L., Doublé, C., Martins, B., Dehaene, S., Wolbers, T., Shafto, M. A., Dolan, R. J., Schonberg, T., Poldrack, R. A., Grill-Spector, K., Lee, A. C. H., Potkin, S. G., Chang, D. H. F., Astle, D. E., & Thirion, B. Individual Brain Charting dataset extension, fifth release of high-resolution fMRI data for cognitive mapping. (*journal article under review*.)
- 2025 Clarke, N., Imarraine, S., Licata, A. E., Dao, T., Sperandio, G., **Pinho, A. L.**, Borghesani, V., Mengotti, P., Liuzzi, A. G., & Piscedda, D. Girls just wanna have funds: A new Transparent Reporting Scale for evaluating grant data reporting from funding agencies. (*journal article submitted*.)
- 2025 **Pinho, A. L.**, Diedrichsen, J., & Grahn, J. A. The Cortico-Basal Ganglia-Cerebellar pathways of forming beat-and interval-based temporal predictions. (*journal article in preparation*.)
- 2025 **Pinho, A. L.**, Diedrichsen, J., & Grahn, J. A. Multi-Task Battery of duration-based paradigms. (*journal article in preparation*.)
- 2025 **Pinho, A. L.** & Diedrichsen, J. Individual brain parcellations for cognitive mapping obtained from a hierarchical Bayesian framework. (*journal article in preparation*.)
- 2025 Nettekoven, C., Shahbazi, A., Arafat, B., Skenderija, M., Xiang, J., **Pinho, A. L.**, & Diedrichsen, J. Systematic differences between brain organisation revealed by task and rest. (*journal article in preparation*.)
- 2025 Ponce, A. F., Aggarwal, H., **Pinho, A. L.**, Thual, A., Shankar, S., Torre, J. J., Ginisty, C., Lecomte, Y., Berland, V., Beriot, L., Laurier, L., Joly-Testault, V., Médiouni-Cloarec, G., Hertz-Pannier, L., Doublé, C., Martins, B., & Thirion, B. Individual Brain Charting: final release of high-resolution fMRI data for precision neuroimaging. (*journal article in preparation*.)

Publications

Number of Citations: ~1110 | h-index: 13 | i10-index: 17 (Google Scholar)

JOURNAL ARTICLES

- 2025 Kong, R. Q., Spreng, R. N., Xue, A., Betzel, R. and Cohen, J. R., Damoiseaux, J., De Brigard, F., Eickhoff, S. B., Fornito, A., Gratton, C., Gordon, E. M., Holmes, A. J., Laird, A. R., Larson-Prior, L., Nickerson, L. D., **Pinho, A. L.**, Razi, A., Sadaghiani, S., Shine, J., Yendiki, A., Thomas Yeo, B. T., & Uddin, L. Q. Consensus, convergence, and correspondence among functional brain network atlases. *Nature Communications*. 16, 2930. doi: [10.1038/s41467-025-58176-9](https://doi.org/10.1038/s41467-025-58176-9)
- 2025 Zhi, D., Shahshahani, L., Nettekoven, C., **Pinho, A. L.**, Bzdok, D., & Diedrichsen, J. A hierarchical Bayesian brain parcellation framework for fusion of functional imaging datasets. *Imaging Neuroscience*. 3: imag_a_00408. doi: [10.1162/imag_a_00408](https://doi.org/10.1162/imag_a_00408)

- 2024 Nettekoven, C., Zhi, D., Shahshahani, L., **Pinho, A. L.**, Saadon-Grosman, N., Buckner, R. L., & Diedrichsen, J. A hierarchical atlas of functional regions in the cerebellum. *Nature Communications*. 15, 8376. doi: [10.1038/s41467-024-52371-w](https://doi.org/10.1038/s41467-024-52371-w)
- 2024 **Pinho, A. L.**, Richard, H., Ponce, A. F., Eickenberg, M., Amadon, A., Dohmatob, E., Denghien, I., Torre, J. J., Shankar, S., Aggarwala, H., Thual, A., Chapalain, T., Ginisty, C., Becuwe-Desmidt, S., Roger, S., Lecomte, Y., Berland, V., Laurier, L., Joly-Testault, V., Médiouni-Cloarec, G., Doublé, C., Martins, B., Varoquaux, G., Dehaene, S., Hertz-Pannier, L., & Thirion, B. Individual Brain Charting third release, probing brain activity during Movie Watching and Retinotopic Mapping. *Scientific Data* 11(1):590. doi: [10.1038/s41597-024-03390-1](https://doi.org/10.1038/s41597-024-03390-1)
- 2024 Thirion, B., Aggarwal, H., Ponce, A. F., **Pinho, A. L.**, & Thual A. Should one go for individual or group-level brain parcellations? A deep-phenotyping benchmark. *Brain Structure and Function*; 229(1):161-181. doi: [10.1007/s00429-023-02723-x](https://doi.org/10.1007/s00429-023-02723-x)
- 2023 Uddin, L. Q., Betzel, R. F., Cohen, J. R., Damoiseaux, J. S., De Brigard, F., Eickoff, S. B., Fornito, A., Gratton, C., Gordon, E. V., Laird, A., Larson-Prior, L. J., McIntosh, A. R., Nickerson, L. D., **Pinho, A. L.**, Poldrack, R., Razi, A., Sadaghiani, S., Shine, J. M., Yendiki, A., Thomas Yeo, B. T., & Spreng, R. N. Controversies and progress on standardization of large-scale brain network nomenclature. *Network Neuroscience*; 7(3):864-905. doi: [10.1162/netn_a_00323](https://doi.org/10.1162/netn_a_00323)
- 2021 Levitis, E., Gould van Praag, C. D., Gau, R., Heunis, S., DuPre, E., (...), **Pinho, A. L.**, (...), & Maumet, C. Centering inclusivity in the design of online conferences—An OHBM—Open Science perspective. *GigaScience*; 10(8):giabo51. doi: [10.1093/gigascience/giabo51](https://doi.org/10.1093/gigascience/giabo51)
- 2021 Thirion, B., Thual, A., & **Pinho, A. L.** From deep brain phenotyping to functional atlas. *Current Opinion in Behavioral Sciences*; 40:201-212. doi: [10.1016/j.cobeha.2021.05.004](https://doi.org/10.1016/j.cobeha.2021.05.004)
- 2021 Dohmatob, E., Richard, H., **Pinho, A. L.**, & Thirion, B. Brain topography beyond parcellations: local gradients of functional maps. *NeuroImage*; 229:117706. doi: [10.1016/j.neuroimage.2020.117706](https://doi.org/10.1016/j.neuroimage.2020.117706)
- 2021 **Pinho, A. L.**, Amadon, A., Fabre, M., Dohmatob, E., Denghien, I., Torre, J. J., Ginisty, C., Becuwe-Desmidt, S., Roger, S., Laurier, L., Joly-Testault, V., Médiouni-Cloarec, G., Doublé C., Martins, B., Pinel, P., Eger, E., Varoquaux, G., Pallier, C., Dehaene, S., Hertz-Pannier, L., & Thirion, B. Subject-specific segregation of functional territories based on deep phenotyping. *Human Brain Mapping*; 42(4):841-870. doi: [10.1002/hbm.25189](https://doi.org/10.1002/hbm.25189)
- 2021 (preprint) Torre, J. J., **Pinho, A. L.**, Shankar, S., Amadon, A., Saignavongs, M., Perrone-Bertolotti, M., Bazeille, T., Dohmatob, E., Denghien, I., Ginisty, C., Becuwe-Desmidt, S., Roger, S., Lecomte, Y., Berland, V., Laurier, L., Médiouni-Cloarec, G., Doublé, C., Martins, B., Lachaux, J.-P., Bisset, P. G., Enkavi, A. Z., Eisenberg, I., Poldrack, R., Santoro, R., Formisano, E., Varoquaux, G., Dehaene, S., Hertz-Pannier, L., & Thirion, B. Individual Brain Charting dataset extension, fourth release of high-resolution fMRI data for cognitive mapping. HAL Id: [hal-04668980](https://hal.archives-ouvertes.fr/hal-04668980), version 1
- 2020 **Pinho, A. L.**, Amadon, A., Gauthier, B., Clairis, N., Knops, A., Genon, S., Dohmatob, E., Torre, J. J., Ginisty, C., Becuwe-Desmidt, S., Roger, S., Lecomte, Y., Berland, V., Laurier, L., Joly-Testault, V., Médiouni-Cloarec, G., Doublé, C., Martins, B., Salmon, E., Piazza, M., Melcher, D., Pessiglione, M., van Wassenhove, V., Eger, E., Varoquaux, G., Dehaene, S., Hertz-Pannier, L., & Thirion, B. Individual Brain Charting dataset extension, second release of high-resolution fMRI data for cognitive mapping. *Scientific Data*; 7(1):353. doi: [10.1038/s41597-020-00670-4](https://doi.org/10.1038/s41597-020-00670-4)

- 2019 (preprint) Richard, H., Martin, L., **Pinho, A. L.**, Pillow, J., & Thirion, B. Fast shared response model for fMRI data. [arXiv: 1909.12537](https://arxiv.org/abs/1909.12537)
- 2019 Schrouff, J., Pischedda, D., Genon, S., Fryns, G., **Pinho, A. L.**, Vassena, E., Liuzzi, A. G., & Ferreira, F. S. - Gender bias in (neuro)science: Facts, consequences, and solutions - *European Journal of Neuroscience*; 50(7):3094-3100. doi: [10.1111/ejn.14397](https://doi.org/10.1111/ejn.14397)
- 2018 **Pinho, A. L.**, Amadon, A., Ruest, T., Fabre, M., Dohmatob, E., Denghien, I., Ginisty, C., Becuwe-Desmidt, S., Roger, S., Laurier, L., Joly-Testault, V., Médiouni-Cloarec, G., Doublé, C., Martins, B., Pinel, P., Eger, E., Varoquaux, G., Pallier, C., Dehaene, S., Hertz-Pannier, L., & Thirion, B. - Individual Brain Charting, a high-resolution fMRI dataset for cognitive mapping - *Scientific Data*; 5:180105. doi: [10.1038/sdata.2018.105](https://doi.org/10.1038/sdata.2018.105)
- 2016 **Pinho, A. L.**, Ullén, F., Castelo-Branco, M., Fransson, P., & de Manzano, Ö. - Addressing a Paradox: Dual Strategies for Creative Performance in Introspective and Extrospective Networks - *Cerebral Cortex*; 26(7):3052-63. doi: [10.1093/cercor/bhv130](https://doi.org/10.1093/cercor/bhv130).
- 2014 **Pinho, A. L.**, de Manzano, Ö., Fransson, P., Eriksson, H., & Ullén, F. - Connecting to Create: Expertise in Musical Improvisation Is Associated with Increased Functional Connectivity between Premotor and Prefrontal Areas - *The Journal of Neuroscience*; 34(18):6156-63. doi: [10.1523/JNEUROSCI.4769-13.2014](https://doi.org/10.1523/JNEUROSCI.4769-13.2014)
- CONFERENCE PAPERS
- 2024 **Pinho, A. L.**, Yoon, J., & Diedrichsen, J. - Individual brain parcellations for cognitive mapping obtained from a hierarchical Bayesian framework. CCN2024 - Conference on Cognitive Computational Neuroscience, August 2024, MIT – Boston, United States. <https://2024.ccneuro.org/poster/?id=265>
- 2024 Bilgin, I. P., Paugam, F., Huang, R., **Pinho, A. L.**, Zhou, Y., Lukic, S., Pinheiro-Chagas, P., & Borghesani, V. NeuroCausal: Development of an Open Source Platform for the Storage, Sharing, Synthesis, and Meta-Analysis of Neuropsychological Data. In Moia, S. *et al.* Proceedings of the OHBM Brainhack 2022. *Aperture Neuro*; 4:12-13. doi: [10.52294/001c.92760](https://doi.org/10.52294/001c.92760)
- 2018 Richard, H., **Pinho, A. L.**, Thirion, B., & Charpiat, G. - Optimizing deep video representation to match brain activity. CCN2018 - Conference on Cognitive Computational Neuroscience, September 2018, Philadelphia, United States. [hal id: hal-01868735](https://hal.archives-ouvertes.fr/hal-01868735)
- BOOKS
- 2018 **Pinho, A. L.**, The Neuropsychological Aspects of Musical Creativity. (2018) In Kapoula, Z., Volle, E., Renoult, J., Andreatta, M. (Eds.), *Exploring Transdisciplinarity in Art and Sciences* (pp 77-103) Springer. doi: [10.1007/978-3-319-76054-4_4](https://doi.org/10.1007/978-3-319-76054-4_4)
- NON-REFEREED CONTRIBUTIONS
- 2020 **Pinho, A. L.**, Torre, J. J., Shankar, S., & Thirion, B. Individual Brain Charting: Dataset Documentation. Available on: <https://project.inria.fr/IBC/>

DATASETS

- 2021b **Pinho, A. L.** et al. Individual Brain Charting (IBC). *EBRAINS*, v3.0 DOI: [10.25493/SM37-TS4](https://doi.org/10.25493/SM37-TS4)
- 2021a **Pinho, A. L.**, Hertz-Pannier, L., Thirion, B. IBC. *OpenNeuro*, ds002685 v1.3.1. DOI: [10.18112/openneuro.ds002685.v1.3.1](https://doi.org/10.18112/openneuro.ds002685.v1.3.1)
- 2020 **Pinho, A. L.** et al. Individual Brain Charting dataset extension, second release of high-resolution fMRI data for cognitive mapping. *NeuroVault*, id collection=6618. Persistent Identifier: <https://identifiers.org/neurovault.collection:6618>

SOFTWARE

- 2024 – Present Contributor to *HierarchBayesParcel*: “A Hierarchical Bayesian Brain Parcellation Framework for fusion of functional imaging datasets.”, URL: <https://github.com/DiedrichsenLab/HierarchBayesParcel>
- 2023 – Present Contributor to *SUITPy*: “Analysis and visualization of cerebellar imaging data.”, URL: <https://github.com/DiedrichsenLab/SUITPy>
- 2022 – Present Contributor to *Functional_Fusion*: “Fusion framework for management of functional imaging datasets”, URL: https://github.com/DiedrichsenLab/Functional_Fusion
- 2022 – Present Contributor to *NeuroCausal*: “An open data sharing and metadata synthesis platform for clinical data”, URL: <https://neurocausal.github.io>
- 2021 – Present Contributor to *WiNRepo*: “Women in Neuroscience Repository” URL: <https://github.com/WomenInNeuroscience/winrepo>
- 2017 – Present Contributor to *Nilearn*: “Statistics and Machine Learning for NeuroImaging in Python” URL: <https://github.com/nilearn/nilearn> DOI: [10.5281/zenodo.17043133](https://doi.org/10.5281/zenodo.17043133)
- 2015 – Present Contributor to *public_analysis_code*: “Repository of Public Analysis Code for the IBC Project” URL: https://github.com/individual-brain-charting/public_analysis_code
- 2015 – 2020 Contributor to *public_protocols*: “This repository hosts public protocols for the IBC project.” URL: https://github.com/individual-brain-charting/public_protocols

BLOG POSTS

- 2020 “The Individual Brain Charting project, a high-resolution, task-fMRI dataset for a comprehensive cognitive mapping of the human brain.”, Behind the Paper, Springer Nature - Research Data Community. URL: <https://researchdata.springernature.com/posts/the-individual-brain-charting-project>

EDITORIAL AND REVIEW ACTIVITIES

- 2025 – present Guest Editor for the upcoming [special issue in *Frontiers in Computational Neuroscience* on “Sex Bias in Neuroscience: Insights from Computational Models to Clinical Data”](#)
- 2014 – present Ad hoc reviewer for: *Cerebral Cortex*, *NeuroImage*, *Scientific Data*, *Brain Structure and Function*, *Brain Imaging and Behavior*, *Scientific Reports*, *Frontiers in Psychology* and *PeerJ Computer Science*.

Conferences and Seminars

TALKS

Note: Slides of my latest talks can be found on [SlideShare](#).

- 2025 “The Striatal-Cerebellar Pathways of forming Beat- and Interval-based Temporal Predictions”, Talk at SONA2025 (Southern Ontario Neuroscience Association conference), Western University, London, Ontario, Canada
- 2025 “The Striatal-Cerebellar Pathways of forming Beat- and Interval-based Temporal Predictions”, Talk at the Symposium on Timing and Rhythm (STAR), Michigan State University, Lansing, Michigan, USA
- 2024 “Deep Behavioral Phenotyping in Systems Neuroscience for Functional Atlasing and Cognitive Mapping of the Human Brain”, Talk at the Department of Psychology, University of Alberta, Edmonton, Alberta, Canada
- 2023 “Deep behavioral phenotyping in functional MRI for cognitive mapping of the human brain”, Seminar at MNI Feindel Brain and Mind Lecture Series organized by The McConnell Brain Imaging Centre (BIC) and Montreal Neurological Institute (The Neuro), McGill University, Montreal, Quebec, Canada
- 2023 “Deep behavioral phenotyping in functional MRI for cognitive mapping of the human brain”, Online Seminar at Cognitive Science Lab, International Institute of Information Technology in Hyderabad (IIIT-H)
- 2022 “Deep behavioral phenotyping in functional MRI for cognitive mapping of the human brain”, Seminar at SIMEXP Lab, Institut universitaire de gériatrie de Montréal (IUGM), University of Montreal, Montreal, Quebec, Canada
- 2021c “The Women in Neuroscience Repository (WiNRepo)”, BrainHack Western Fall 2021
- 2021b “Individual functional atlasing of the human brain with multitask fMRI data: leveraging the IBC dataset”, Online Seminar for the Stockholm University Brain Imaging Centre
- 2021a “Individual functional atlasing of the human brain with multitask fMRI data: leveraging the IBC dataset”, Online Seminar for the Diedrichsen Lab – Western University
- 2020e “Individual functional atlasing of the human brain with multitask fMRI data: leveraging the IBC dataset”, Online Seminar for the Poldrack Lab – Stanford University

2020d	“Individual functional atlas of the human brain with multitask fMRI data: leveraging the IBC dataset”, Online Seminar for the Institute of Neuroscience and Medicine, Brain and Behaviour (INM-7) – Jülich Research Center
2020c	“The Women in Neuroscience Repository (WiNRepo): improving the visibility of women neuroscientists”, Open Theatre Sessions, Federation of European Neuroscience Societies (FENS) 2020 Virtual Forum
2020b	“Segregation of functional territories in individual brains”, Oral presentation in Session <i>Modeling and Analysis: Variability in Brain Activation</i> , Organization for Human Brain Mapping (OHBM) Annual (Virtual) Meeting 2020
2020a	“Individual Brain Charting dataset extension: second and third releases”, Open Science Room (session: <i>Open Data 2.0</i>), OHBM Annual (Virtual) Meeting 2020
2019d	“Individual Brain Charting, a high-resolution fMRI dataset for cognitive mapping of the human brain”, Open Science Room (session: <i>From statistical to biological validity</i>), OHBM Annual Meeting 2019, Rome, Italy
2019c	“Individual Brain Charting, a high-resolution fMRI dataset for cognitive mapping of the human brain.”, Science Pizza event, Institute for Brain and Spinal Cord (ICM), Paris, France
2019b	“Individual Brain Charting, a high-resolution fMRI dataset for cognitive mapping of the human brain.”, The 5 th CiNet Conference, Center for Information and Neural Networks (CiNet), Osaka, Japan
2019a	“Individual Brain Charting, a high-resolution fMRI dataset for cognitive mapping of the human brain”, 3 rd HBP Student Conference, Ghent, Belgium
2018	“Individual Brain Charting highlights”, Physical HBP-SP2 Meeting, Florence, Italy
2014	“Mecanismos Neurocognitivos associados à Criatividade Musical” (“Neurocognitive Mechanisms of Musical Creativity”), Scientific Congress organized by Núcleo de Estudantes de Farmácia da Associação Académica de Coimbra (NEF/AAC), Coimbra, Portugal
2013a	“Neural Basis of Expertise in Musical Creativity”, Neuroscience 2013 (Annual Meeting of SfN), San Diego, USA
2012	“Anatomical and Functional Brain Reorganizations Associated with Expertise in Musical Creativity” (PhD Half-Time Seminar), Annual Meeting of Centre for Neuroscience and Cell Biology (CNC), BIOCANT Park, Cantanhede, Portugal
PANEL DISCUSSIONS	
2023	Panel Member at OHBM2023 podcast “Neurosaliency”, Montreal, Canada (see Section Media)
2021	“Deep neuroimaging data - a community perspective”, OHBM 2021 Brainhack

POSTER PRESENTATIONS

- 2024 “Individual brain parcellations for cognitive mapping obtained from a hierarchical Bayesian framework”, Cognitive Computational Neuroscience 2024 (CCN2024), MIT – Boston, Massachusetts, USA
- 2024 “The Cortico-Basal Ganglia-Cerebellar pathways of forming beat- and interval-based temporal predictions”, The Neurosciences and Music – VIII: Wiring, re-wiring, and well-being, Helsinki, Finland
- 2024 “The Cortico-Basal Ganglia-Cerebellar pathways of forming beat- and interval-based temporal predictions”, Cognitive Neuroscience Society (CNS), Toronto, Canada
- 2024 “The Cortico-Basal Ganglia-Cerebellar pathways of forming beat- and interval-based temporal predictions”, L.O.V.E. Conference 2024, Niagara Falls, Canada
- 2023 “The Cortico-Basal Ganglia-Cerebellar pathways of forming beat- and interval-based temporal predictions”, 19th Annual NeuroMusic Conference, MacMaster Institute for Music & The Mind, Hamilton, Canada
- 2023 “The Cortico-Basal Ganglia-Cerebellar pathways of forming beat- and interval-based temporal predictions”, Timing Research Forum 3, Lisbon, Portugal
- 2023 “Assessing stability of individual brain parcellations through a deep-phenotyping, functional-fusion framework”, 2023 Big Data Neuroscience Workshop, Columbus, Ohio, USA
- 2023 “Individual Brain Charting dataset: probing large-scale functional networks with naturalistic stimuli”, OHBM Annual Meeting 2023, Montreal, Canada
- 2023 “The Cortico-Basal Ganglia-Cerebellar pathways of forming beat- and interval-based temporal predictions”, L.O.V.E. Conference 2023, Niagara Falls, Canada
- 2020c “Individual functional atlas for cognitive mapping of the human brain”, FENS 2020 Virtual Forum
- 2020b “Segregation of functional territories in individual brains”, OHBM Annual (Virtual) Meeting 2020
- 2020a “WP2.1 Multimodal whole-brain mapping”, annual HBP Summit, Athens, Greece
- 2019 “Functional specialization in human cognition: a large-scale neuroimaging initiative”, OHBM Annual Meeting 2019, Rome, Italy
- 2018c “Individual Brain Charting, a high-resolution fMRI dataset for cognitive mapping of the human brain” (Electronic Poster), Neuroscience 2018 (Annual Meeting of SfN), San Diego, USA
- 2018b “Individual Brain Charting, a high-resolution fMRI dataset for cognitive mapping” (Electronic Poster), Open Day of the 6th annual HBP Summit, Maastricht, Netherlands
- 2018a “Mapping human cognition at high spatial resolution with a task-rich fMRI dataset”, OHBM Annual Meeting 2018, Singapore

- 2017c “Individual Brain Charting: a task-fMRI dataset for cognitive mapping”, 5th annual HBP Summit, Glasgow, Scotland
- 2017b “Mapping cognitive concepts to brain activity with a high-resolution individual data and a cognitive ontology”, OHBM Annual Meeting 2017, Vancouver, Canada
- 2017a “Individual Brain Charting: Mapping cognitive concepts to brain activity with a high-resolution individual data and a cognitive ontology”, New Concepts in Neural Pattern Encoding, Neuroscience Workshop Saclay (NeWS), Gif-sur-Yvette, France
- 2016e “Individual Brain Charting: a neuroimaging database featuring the first functional atlas of the human brain” (Electronic Poster), Neuroscience 2016 (Annual Meeting of SfN), San Diego, USA
- 2016d “Individual Brain Charting: a comprehensive neuroimaging database towards a macroscopic representation of the human brain”, 4th annual HBP Summit, Florence, Italy
- 2016c “Individual Brain Charting: a comprehensive neuroimaging database towards a macroscopic representation of the human brain”, FENS, Copenhagen, Denmark
- 2016b “Individual Brain Charting: high-resolution normative fMRI database”, OHBM Annual Meeting 2016, Geneva, Switzerland
- 2016a “High resolution encoding of cognitive information within the IBC project”, New Concepts in Neural Pattern Encoding, NeWS, Gif-sur-Yvette, France
- 2014 “Feeling and structure - neural correlates of musical improvisation under different constraints”, The Neurosciences and Music - V: Cognitive Stimulation and Rehabilitation, Dijon, France
- 2013 “Functional Brain Reorganizations Associated with Expertise in Musical Creativity”, Music, Poetry & The Brain - Celebrating Wagner’s Bicentennial, Lisboa, Portugal
- 2012 “Sex Differences in Training Effects - an fMRI study on Musical Improvisation”, Workshop on Music in Neuroscience, Monte Verità, Ascona, Switzerland
- 2011 “Selection and Generation in Musical Creativity - an fMRI study”, The Neurosciences and Music - IV: Learning and Memory, Edinburgh, UK

COLLABORATIVE-PROJECT PRESENTATIONS

- 2017 Nilearn development - OHBM hackathon 2017, Vancouver, Canada
- 2016 Nistats development - Brainhack, Paris, France

CONFERENCE SERVICE

- 2025 Member of the jury board for evaluating best projects, Brainhack Western

ATTENDED

- 2025 Raynor Cerebellum Project Meeting, London Ontario, Canada
- 2015b 3rd annual HBP Summit, Madrid, Spain
- 2015a PyData Paris 2015, Paris, France
- 2013 International Neuroinformatics Coordinating Facility (INCF) Neuroinformatics 2013, Stockholm, Sweden, August 2013
- 2011b Boosting the Brain - Neuroplasticity and cognition across lifespan - Developmental Cognitive Neuroscience Symposium, KI - Solna, Stockholm, Sweden
- 2011a Toward a Science of Consciousness organized by the Center for Consciousness Studies at the University of Arizona, Stockholm, Sweden
- 2010 Aquém e Além do Cérebro (“Behind and Beyond the Brain”) - 8^o Symposium of Bial Foundation, Porto, Portugal

Courses and Workshops

- 2021 *TCPS 2: CORE - Course on Research Ethics involving human participants* by [The Tri-Council Policy Statement: Ethical Conduct for Research Involving Humans \(TCPS 2\)](#) from the Government of Canada (certificate [here](#))
- 2018 *Nistats* - NeuroSpin, Saclay Nuclear Research Centre (CEA-Saclay), France
- 2016 *Short Course 2: Data Science and Data Skills for Neuroscientists*, Neuroscience 2016 (Annual Meeting of SfN), San Diego, USA
- 2015b *Probabilistic inference and the brain* - org. by Stanislas Dehaene, Collège de France, Paris, France
- 2015a *Neuroimaging meta-analysis methods* - NeuroSpin, CEA-Saclay, France
- 2014 *Advanced Behaviour Technology* - Champalimaud Neuroscience Programme (CNP) Summer School, Champalimaud Centre for the Unknown, Lisbon, Portugal.
<http://www.neuro.fchampalimaud.org/en/events/event/202/>.
- 2013 *Introduction to Neuroinformatics* - INCF Short Course, Stockholm, Sweden
- 2011b *Memory*, Course for Master and PhD studies by Lars-Göran Nilsson, Stockholm University, Stockholm, Sweden, Fall 2011
- 2011a *Positron emission tomography imaging of the Central Nervous System (CNS)*, Postgraduate Course by Dr. Andrea Varrone, Dep. Clinical Neuroscience, KI, Stockholm, Sweden
- 2010d *Workshop on Vision and Brain Imaging*, KTH Royal Institute of Technology, Stockholm, Sweden
<http://agenda.albanova.se/conferenceDisplay.py?confId=2454>

2010c *SPM8 for Basic and Clinical Investigator*, Software Training Workshop by Thomas A. Zeffiro and Robert L. Savoy at the Martinos Center, Boston, Massachusetts, USA
<http://neurometrika.org/BasicSPM>

2010b MR driving license course, MR Research Center, KI, Stockholm, Sweden

2010a *Visualizing Molecular & Cellular Processes with 3D Animation* (using Autodesk Maya 3D animation software), Institute of Molecular Pathology and Immunology of the University of Porto (IPATIMUP), Porto, Portugal. <https://www.ipatimup.pt/Site/ActivityView.aspx?ActivityId=1206>

ONLINE COURSES

2021 *Principles of fMRI 2* - Johns Hopkins University and University of Colorado (issued by Coursera)

2021 *Principles of fMRI 1* - Johns Hopkins University (issued by Coursera)

2020 – 2021 *Django for Everybody Specialization: (course 1) Web Application Technologies and Django; (course 2) Building Web Applications in Django; (course 3) Django Features and Libraries; (course 4) Using JavaScript, jQuery, and JSON in Django* - University of Michigan (issued by Coursera)

2018 *Statistical Learning* - Stanford University (issued by edX)

2016b *Machine Learning* - Stanford University (issued by Coursera)

2016a *Introduction to Philosophy* - The University of Edinburgh (issued by Coursera)

Media

2025 Interview to *The Transmitter* published on 11th February, 2025 to mark “The International Day of Women and Girls in Science”)

2023 OHBM Neurosalience Live Podcast So4E02 — *Mapping Individual Differences in the Human Brain*

2018 Scientific Data website banner (June 2018, biweekly feature)—from Pinho *et al.* (2018)

2016 Communications Human Brain Project: *HBP Video Selfie Campaign* - Ana Luisa

2014 Interview *Inside Neuroscience - Tuning the Brain to Music: Creativity and Connetivity*, Neuroscience Quarterly (newsletter produced by Society for Neuroscience), Spring 2014

2014 Interview to American Association for the Advancement of Science (AAAS) - *Musical Creativity - Science Update*

2013 Participation in the Press Conference of Neuroscience 2013, SfN Conference - *Musical training shapes brain anatomy and affects function*, November 2013

2013 Interventions in the portuguese media with interviews to the radio TSF and the tv-channel ETV, November 2013

Andragogical Skills

TEACHING INTERESTS

- Principles of fMRI and Advanced Methods in Neuroimaging
- Biostatistics and Data Science for Neuroscience
- Machine Learning in Neuroimaging
- Cognitive Computational Neuroscience
- Meta-Analytic applications in systems neuroscience to study brain networks
- Neuroinformatics and Large-Scale Data Analysis
- Neuroscience of Music

CO-SUPERVISION AND MENTORING

- 2025 – Present Co-supervisor of Neuroscience-Independent-Study course's student, **Anmar Alsibaie**, in the third year of the Honours Specialization in Neuroscience at Western University, London Ontario, Canada.
- 2021 – Present Tutor of several Research Assistants affiliated to the [Music and Neuroscience Lab](#) at Western University, London Ontario, Canada
- 2023 – 2024 Co-supervisor of Honours Thesis' Student, **Jennifer Yoon**, from the Department of Computer Science at Western University.
Title of the thesis: *Improving individual brain parcellations for cognitive mapping through a hierarchical Bayesian framework.* — Final Grade: 88% (UWO's grading scale: A)
- 2023 – 2024 Co-supervisor of Honours Thesis' Student, **Velda Addo**, from the Department of Psychology at Western University.
Title of the thesis: *The Effect of Music-Induced Mood and Arousal on Creative Cognition.* — Final Grade: 89% (UWO's grading scale: A)
- 2018 – 2020 Tutor of Technician on protocol implementation and MRI data collection for the IBC project.

TEACHING ACTIVITY

- 2023 – 2024 Enrolment in the [Western Certificate in University Teaching and Learning \(WCUTL\)](#)
- [Certificate of completion of WCUTL](#)
 - [Letter of Accomplishment of WCUTL](#) with detailed description of the modules covered in the program
 - [Certificate of completion of the Microteaching module](#), a curricular component of the WCUTL program.
- 2023 “Neurological Basis of Musical Performance: Musical Improvisation”, Invited Lecture for the Post-graduate Program of “Neuroscience of Music” at Catholic University of Portugal, Lisbon, Portugal

TEACHING MATERIALS

The following materials refer to two teaching lessons delivered for completion of the aforementioned *The Teaching Assistant Training Program* and *Teaching Mentor Program* modules.

- Microteaching Lesson 1: access to slides [here](#).
- Microteaching Lesson 2: access to slides [here](#).
- Teaching and Mentor Program lecture on the *Neurobiological Basis of Musical Performance: Musical Improvisation*. Access to slides [here](#).

Competences

COMPUTER SKILLS

- Good command in *Unix* operating systems (e.g. *Ubuntu: Linux Distribution*) and *Windows* operating system
- **Programming:** Python (venv, pytest, Joblib), Bash, C, SQL, Lisp
- **Scientific Computing:** IPython, NumPy, SciPy, pingouin, MATLAB, GNU Octave, Jupyter Notebook, R, Wolfram Mathematica
- **Machine-Learning Frameworks:** scikit-learn, PyTorch, Google AI&MachineLearning Transformers
- **Data Manipulation&Visualization:** pandas, Matplotlib, Seaborn
- **Typesetting:** \LaTeX (Document Classes: article, beamer, book and letter)
- **Software for Neuroimaging:** Nilearn, NiBabel, SPM - Statistical Parametric Mapping, FM-RIB Software Library (FSL), FreeSurfer, Papaya, Connectome Workbench, MRICron, MRICroGL, BrainVoyager
- **Tools for designing and conducting multimodal-stimuli experiments in cognitive neuroscience:** Expyriment, pliers, Psychtoolbox, E-Prime&E-Basic, PsychoPy, Presentation
- **Software Engineering:** Git protocol (Platforms: GitHub and GitLab), Conda
- **Web/Databases:** HTML&CSS, Django
- **Miscellaneous:** GNU Emacs, gnuplot, Visual Studio Code, Office productivity softwares, GIMP - GNU Image Manipulation Program, Inkscape, darktable, Unison File Synchronizer, VeraCrypt, FFmpeg, Kdenlive, Statistica (by StatSoft and TIBCO Software)

LANGUAGE SKILLS

- **Portuguese** – native speaker
- **English** – bilingual
- **French** – advanced independent user

DRIVING LICENCE

- Full G driving licence (issued in Ontario, Canada)

Other Information

INDEPENDENT SCIENTIFIC RESEARCH

- 2022 – Present Member of [the NeuroCausal Team](#)
2020 – Present Member of the *WHATNET: Workgroup for HArmonized Taxonomy of NETworks*

EQUITY, DIVERSITY & INCLUSION (EDI)

- 2018 – Present Affirmative action in gender equity:
board member of the *Women in Neuroscience Repository* (WiNRepo). <https://www.winrepo.org>.

MEMBERSHIPS

- 2024 Member of the *Portuguese Society for Neuroscience*

OUTREACH AND COMMUNICATION ACTIVITIES

- 2022 – Present Organization of Coffee Breaks for the members of [the Western Centre for Brain and Mind](#) at [Western University](#)
2022 Promoting [OurBrainsCAN](#) to the London ON community at the [TD Sunfest](#)
2021 “Multilingual kids review – Portuguese session”, OHBM Annual (Virtual) Meeting 2021
2013 “Neural Basis of Expertise in Musical Creativity”, 3rd European Professional Women’s Network (EPWN) Lisbon Annual Meeting - Creativity&Innovation - new economic models to overcome the crisis, Lisbon, Portugal

Last update: December 11, 2025

https://alpinho.github.io/assets/pdf/cv_analupinho_long.pdf