# Ana Luísa Pinho

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RESEARCHGATE: https://www.researchgate.net/profile/Ana-Pinho-25 ACADEMIA.EDU: https://uwontario.academia.edu/AnaLuisaPinho

## **Research Interests**

## Cognitive and Systems Neuroscience:

- Development of deep-behavioral-phenotyping strategies 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 to perform functional mapping of cognition in the human
- Development of a common framework of psycho-physiological constructs

## **Data Science:**

- · Development of data-sharing facilities
- Reproducibility in systems neuroscience and neuroimaging

# Current position

<sup>2021 -</sup> Present Tier I *BrainsCAN Postdoctoral Fellow*, University of Western Ontario, London ON, Canada Faculty Advisors: Jörn Diedrichsen and Jessica Grahn

# Appointments held

Postdoctoral Researcher, Parietal Team, Inria Saclay-Île-de-France, Paris-Saclay University, France 2015 - 2020 Advisor: Bertrand Thirion

## Education

PHD in Health Sciences (branch: Biomedical Sciences) 2009 - 2015

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

MSc + Licentiate Degrees (Integrated Master) in Engineering Physics 1999 - 2008

> Institution: Instituto Superior Técnico, 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

Tier I Brains CAN Postdoctoral Fellowship, Canada First Research Excellence Fund (CFREF), Canada 2021 - Present Amount (3y): 225.000 CAD

Research Fellowship, Sven and Dagmar Saléns Foundation (Stockholm, Sweden) 2013 - 2014

Amount: **~144.000 SEK** 

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

PhD Studentship from Foundation for Science and Technology (FCT) (SFRH/BD/33895/2009) un-2009 - 2013 der the PHD Programme in Experimental Biology and Biomedicine of Center for Neuroscience and

Cell Biology, University of Coimbra (Coimbra, Portugal)

Amount: ~8**0.153** €

Scientific Initiation Grant in Seismology from FCT, Instituto Superior Técnico (Lisbon, Portugal) 2006 - 2007

Amount: ~3.600 €

## Research

RESEARCH EXPERIENCE

Postdoctoral Fellow: application of brain atlasing techniques and musical tasks to chart the cortico-2021 - Present striatal-cerebellar circuitry involved in the cognitive ability of forming temporal predictions during rhythmic and non-rhythmic sequences of events; development of encoding models to improve functional specificity in neuroimaging relative to elementary cognitive components that modulate behavior.

- Postdoctoral Researcher: development of a multimodal neuroimaging dataset for large-scale functional atlasing and cognitive mapping of the human brain; application of mega-analytic encoding models to fMRI data for brain atlasing.
- 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

- 2021 Present BrainsCAN Project: Novel brain atlasing techniques to reveal the cerebellar role in music cognition / Investigator: Ana Luísa Pinho (with supervision from Faculty Advisors)
- Individual Brain Charting (IBC): SP2 Human Brain Organization Work Package 2.1 "Multimodal whole mapping" of the *Human Brain Project* (HBP) / Principal Investigator (PI): Bertrand Thirion
- Kartläggning av hjärnområden involverade i hierarkisk kontroll av långa motoriska sekvenser hos musiker och icke-musicker ("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)

  / PI: Fredrik Ullén

## News&Views

- Kong, R., Uddin, L. Q., Betzel, R., Cohen, J. R., Damoiseaux, J. S., De Brigard, F., Eickhoff, S. B., Fornito, A., Gratton, C., Holmes, A., Laird, A. R., Larson-Prior, L., Nickerson, L. D., **Pinho, A. L.**, Razi, A., Sadaghiani, S., Yendiki, A., Yeo, B. T. T., Spreng, R. N. Consensus, convergence, and correspondence among functional brain network atlases. (*journal article submitted*)
- 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. (*journal article submitted*)
- 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. (*proceedings article submitted.*)
- (preprint) 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. (journal article to be submitted soon.) doi:10.1101/2023.05.24.542121
- Pinho, A. L., Richard, H., Eickenberg, M., Amadon, A., Dohmatob, E., Shankar, S., Aggarwala, H., Denghien, I., 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., Varoquaux, G., Dehaene, S., Hertz-Pannier, L., & Thirion, B. Individual Brain Charting dataset: probing large-scale networks with naturalistic stimuli (journal article to be submitted soon.)
- Nettekoven, C., Zhi, D., Shahshahani, L., **Pinho, A. L.**, Saadon-Grosman, N., Buckner, R., & Diedrichsen, J. A hierarchical atlas of functional regions in the cerebellum. (*journal article in preparation*.)

## **Publications**

JOURNAL ARTICLES

- 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., Yeo, B. T. T., Spreng, R. N. Controversies and progress on standardization of large-scale brain network nomenclature. (*Network Neuroscience*). doi: 10.1162/netn\_a\_00323
- 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
- Thirion, B., Thual, A., & **Pinho, A. L.** From deep brain phenotyping to functional atlasing. *Current Opinion in Behavioral Sciences*; 40:201-202 doi: 10.1016/j.cobeha.2021.05.004
- 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
- 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
- Pinho, A. L., Amadon, A., Ruest, T., Fabre, M., Gauthier, B., Clairis, N., Knops, A., Genon, S., Dohmatob, E., Denghien, I., 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., Pinel, P., Eger, E., Varoquaux, G., Pallier, C., 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. 10.1038/s41597-020-00670-4
- (preprint) Richard, H., Martin, L., **Pinho, A. L.**, Pillow, J., & Thirion, B. Fast shared response model for fMRI data. September 2019. arXiv: 1909.12537
- 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
- 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
- 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, June 2018. doi: 10.1038/sdata.2018.105.

- 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, July 2016. doi: 10.1093/cercor/bhv130. Epub 2015 Jun17.
- 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, April 2014. doi: 10.1523/JNEUROSCI.4769-13.2014

#### Воокѕ

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

#### Non-Refereed contributions

Pinho, A. L., Torre, J. J., Shankar, S., & Thirion, B. Individual Brain Charting: Dataset Documentation. Available on: https://project.inria.fr/IBC/

#### DATASETS

- Pinho, A. L., Hertz-Pannier, L., Thirion, B. IBC. *OpenNeuro*, dsoo2685. DOI: 10.18112/openneuro.dsoo2685.v1.o.o
- Pinho, A. L. et al. Individual Brain Charting (IBC, release 2). EBRAINS. DOI: 10.25493/XX28-VI1
- 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

- <sup>2022 Present</sup> Contributer to *NeuroCausal*: "An open data sharing and metadata synthesis platform for clinical data", URL: https://neurocausal.github.io
- <sup>2021 Present</sup> Contributer to *WiNRepo*: "Women in Neuroscience Repository" URL: https://github.com/WomenInNeuroscience/winrepo
- <sup>2017</sup> Present Contributer to *Nilearn*: Statistics and Machine Learning for NeuroImaging in Python URL: https://github.com/nilearn/nilearn
- <sup>2015</sup> Present Contributer to the *Repository of Public Analysis Code for the IBC Project*. URL: https://github.com/individual-brain-charting/public\_analysis\_code

2015 - 2020 Contributer to the *Repository of Public Protocols for the IBC Project*. URL: https://github.com/individual-brain-charting/public\_protocols

#### **BLOG POSTS**

"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

#### REVIEW ASSIGNMENTS

Ad hoc reviewer for: *Cerebral Cortex, NeuroImage, Scientific Data, Scientific Reports, Brain Structure and Function, Brain Imaging and Behavior, Frontiers in Psychology* and *PeerJ Computer Science.* 

#### MEDIA

- Interview *Inside Neuroscience Tuning the Brain to Music: Creativity and Connetivity*, Neuroscience Quarterly (newsletter produced by Society for Neuroscience), Spring 2014
- Interview to American Association for the Advancement of Science (AAAS) *Musical Creativity* Science Update
- Participation in the Press Conference of Neuroscience 2013, SfN Conference Musical training shapes brain anatomy and affects function, November 2013
- Interventions in the portuguese media with interviews to the radio TSF and the tv-channel ETV, November 2013

## Conferences and Seminars

#### TALKS

- "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
- "Deep behavioral phenotyping in functional MRI for cognitive mapping of the human brain", Seminar at Cognitive Science Lab, International Institute of Information Technology in Hyderabad (IIIT-H)
- "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
- "The Women in Neuroscience Repository (WiNRepo)", BrainHack Fall 2021
- "Individual functional atlasing of the human brain with multitask fMRI data: leveraging the IBC dataset", Online Seminar for the Stockholm University Brain Imaging Centre

- "Individual functional atlasing of the human brain with multitask fMRI data: leveraging the IBC dataset", Online Seminar for the Diedrichsen Lab Western University
- "Individual functional atlasing of the human brain with multitask fMRI data: leveraging the IBC dataset", Online Seminar for the Poldrack Lab Stanford University
- "Individual functional atlasing 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
- "The Women in Neuroscience Repository (WiNRepo): improving the visibility of women neuroscientists", Open Theatre Sessions, Federation of European Neuroscience Societies (FENS) 2020 Virtual Forum
- "Segregation of functional territories in individual brains", Oral presentation in Session *Modeling and Analysis: Variability in Brain Activation*, Organization for Human Brain Mapping (ОНВМ) Annual (Virtual) Meeting 2020
- "Individual Brain Charting dataset extension: second and third releases", Open Science Room (session: *Open Data 2.0*), OHBM Annual (Virtual) Meeting 2020
- "Individual Brain Charting, a high-resolution fMRI dataset for cognitive mapping of the human brain", Open Science Room (session: *From statistical to biological validity*), OHBM Annual Meeting 2019, Rome, Italy
- "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
- "Individual Brain Charting, a high-resolution fMRI dataset for cognitive mapping of the human brain.", The 5<sup>th</sup> CiNet Conference, Center for Information and Neural Networks (CiNet), Osaka, Japan
- "Individual Brain Charting, a high-resolution fMRI dataset for cognitive mapping of the human brain", 3<sup>rd</sup> HBP Student Conference, Ghent, Belgium
- "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
- "Neural Basis of Expertise in Musical Creativity", 3<sup>rd</sup> European Professional Women's Network (EPWN) Lisbon Annual Meeting Creativity&Innovation new economic models to overcome the crisis, Lisbon, Portugal
- "Neural Basis of Expertise in Musical Creativity", Neuroscience 2013 (Annual Meeting of SfN), San Diego, USA
- "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 "Neurosalience", Montreal, Canada
2021b	"Multilingual kids review – Portuguese session", OHBM Annual (Virtual) Meeting 2021
2021a	"Deep neuroimaging data - a community perspective", OHBM 2021 Brainhack
	Poster Presentations
2023	"The Cortico-Basal Ganglia-Cerebellar pathways of forming beat- and interval-based temporal predictions", Timing Research Forum 2023, Lisbon, Portugal ( <i>upcoming in October</i> )
2023	"Assessing stability of individual brain parcellations through a deep-phenotyping, functional-fusion framework", 2023 Big Data Neuroscience Workshop, Columbus, Ohio, USA ( <i>upcoming in September</i> )
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 atlasing 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
2019b	"Functional specialization in human cognition: a large-scale neuroimaging initiative", OHBM Annual Meeting 2019, Rome, Italy
2019a	"Individual Brain Charting, a high-resolution fMRI dataset for cognitive mapping of the human brain" ( <u>Electronic Poster</u> ), Neuroscience 2018 (Annual Meeting of SfN), San Diego, USA
2018b	"Individual Brain Charting, a high-resolution fMRI dataset for cognitive mapping" ( <u>Electronic Poster</u> ), Open Day of the 6 <sup>th</sup> 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", $5^{\rm th}$ 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

"Individual Brain Charting: Mapping cognitive concepts to brain activity with a high-resolution in-

dividual data and a cognitive ontology", New Concepts in Neural Pattern Encoding, Neuroscience

Workshop Saclay (NeWS), Gif-sur-Yvette, France

2017a

"Individual Brain Charting: a neuroimaging database featuring the first functional atlas of the 20166 human brain" (Electronic Poster), Neuroscience 2016 (Annual Meeting of SfN), San Diego, USA "Individual Brain Charting: a comprehensive neuroimaging database towards a macroscopic rep-2016d resentation of the human brain", 4<sup>th</sup> annual HBP Summit, Florence, Italy "Individual Brain Charting: a comprehensive neuroimaging database towards a macroscopic rep-2016c resentation of the human brain", FENS, Copenhagen, Denmark "Individual Brain Charting: high-resolution normative fMRI database", OHBM Annual Meeting 2016b 2016, Geneva, Switzerland "High resolution encoding of cognitive information within the IBC project", New Concepts in Neu-2016a ral Pattern Encoding, NeWS, Gif-sur-Yvette, France "Feeling and structure - neural correlates of musical improvisation under different constraints", The Neurosciences and Music - V: Cognitive Stimulation and Rehabilitation, Dijon, France "Functional Brain Reorganizations Associated with Expertise in Musical Creativity", Music, Po-2013 etry & The Brain - Celebrating Wagner's Bicentennial, Lisboa, Portugal "Sex Differences in Training Effects - an fMRI study on Musical Improvisation", Workshop on 2012 Music in Neuroscience, Monte Verità, Ascona, Switzerland "Selection and Generation in Musical Creativity - an fMRI study", The Neurosciences and Mu-2011 sic - IV: Learning and Memory, Edinburgh, UK Collaborative-project Presentations Nilearn development - OHBM hackathon 2017, Vancouver, Canada 2017

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- Nistats development Brainhack, Paris, France

## Courses

2023 - Present Enrolment in Western Certificate in University Teaching and Learning

• Module on Microteaching completed in August 2023.

## Competences

## COMPUTER SKILLS

- Good command in Linux and Windows environment
- 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, Google Al&MachineLearning Transformers
- Data Maniputation&Visualization: pandas, Matplotlib, Seaborn
- Typesetting: Lasses: 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, 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 proficiency
- French professional-working proficiency

## Other Information

#### **Memberships**

Member of the Organization for Human Brain Mapping
Member of the Portuguese Society for Neuroscience

#### VOLUNTEERING

2020 - Present Member of the WHATNET: Workgroup for HArmonized Taxonomy of NETworks

2018 - Present Affirmative action in gender equity:

board member of the Women in Neuroscience Repository (WiNRepo). https://www.winrepo.org/.

#### **OUTREACH AND COMMUNICATION ACTIVITTIES**

Promoting OurBrainsCAN to the London ON community at the TD Sunfest

Last update: August 22, 2023