

# CURRICULUM VITAE

Dr. ANA P. PINHEIRO

*Faculdade de Psicologia, Universidade de Lisboa*

Alameda da Universidade, 1649-013 Lisbon, Portugal

appinheiro@psicologia.ulisboa.pt

([orcid.org/0000-0002-7981-3682](https://orcid.org/0000-0002-7981-3682); [https://www.researchgate.net/profile/Ana\\_Pinheiro4/contributions](https://www.researchgate.net/profile/Ana_Pinheiro4/contributions))

## EDUCATIONAL HISTORY

---

### Academic Qualifications:

2010 **Ph.D.**, Psychology, University of Minho, Portugal

2006 **M.Sc.**, Psychology, University of Minho, Portugal

### Postdoctoral training:

2010-2015 Post-Doctoral Fellow, Clinical Neuroscience Research Training Program, Neuroscience Laboratory, Department of Psychiatry, *Harvard Medical School*.

## EMPLOYMENT HISTORY

---

2017-Present Assistant Professor, Faculty of Psychology, Lisbon, Portugal.

2017-Present Director – VoicES (Voice, Emotion, and Speech) Neuroscience Lab, Faculty of Psychology, Lisbon, Portugal.

2013-2016 Research Associate (FCT<sup>1</sup> Investigator Award), School of Psychology, University of Minho, Braga, Portugal.

2010-2015 Post-Doctoral Fellow, School of Psychology, University of Minho, Braga, Portugal / Harvard Medical School, Boston, USA.

2007-2010 Ph.D. Fellow, School of Psychology, University of Minho, Braga, Portugal.

2006-2007 Research Assistant, School of Psychology, University of Minho, Braga, Portugal.

## AWARDS AND HONORS

---

2019 SIRS Travel Award, Schizophrenia International Research Society.

2018 Fulbright Research Scholarship.

2016 Helmsley Scholarship, Cold Spring Harbor Laboratory.

2016 ERP Boot Camp Fellowship, UC Davis.

2016 FCT Investigator Consolidating Grant.

2015 Summer Institute in Cognitive Neuroscience Fellowship, UC Davis & UC Santa Barbara.

2013 Young Investigator Award, Portuguese Association of Psychology.

2013 International Travel Fellowship Award, Society of Biological Psychiatry.

2012 FCT Investigator Starting Grant.

2012 Top-Ten Fellow Poster of the Harvard Psychiatry Research Day Poster Session (Mysell Committee, Department of Psychiatry, Harvard Medical School).

2012 Poster Award Finalist: 3rd Biennial Schizophrenia International Research Society Meeting.

## RESEARCH

---

### 1. Research Foci:

Cognitive and Affective Neuroscience: Social communication; Language and speech perception; Voice processing; Predictive coding in auditory processing; Psychosis and auditory hallucinations; Learning and neuroplasticity.

*Specific applications:* Psychiatric (schizophrenia-spectrum) disorders.

*Research Methods:* Behavioral measures; Human electroencephalography and Event-related potentials; EEG Time-frequency analysis.

### 2. Publications (selected):

[\*Publications as senior author; <sup>a</sup> contributed equally to the work; Number of citations=1042; h-index=18; i10-index=32; Full list of publications available at [orcid.org/0000-0002-7981-3682](https://orcid.org/0000-0002-7981-3682)]

1. **Pinheiro, A. P.**, Schwartz, M., & Kotz, S. A. (in press). Cerebellar circuitry and auditory verbal hallucinations: An integrative synthesis and perspective. *Neuroscience and Biobehavioral Reviews*. doi: 10.1016/j.neubiorev.2020.08.004

---

<sup>1</sup> Portuguese Science Foundation (*Fundação para a Ciência e a Tecnologia*).

2. **Pinheiro, A. P.**, Schwartz, M., Amorim, M., Coentre, R., Levy, P., & Kotz, S. A. (2020). Changes in motor preparation affect the sensory consequences of voice production in voice hearers. *Neuropsychologia*, *146*, 107531. doi: 10.1016/j.neuropsychologia.2020.107531
3. **Pinheiro, A. P.**, Schwartz, M., Gutierrez, F., & Kotz, S. A. (2020). Real and imagined sensory feedback have comparable effects on action anticipation. *Cortex*, *130*, 290-301. doi: 10.1016/j.cortex.2020.04.030
4. Duggirala, S. X., Schwartz, M., **Pinheiro, A. P.\***, & Kotz, S. A. (2020). Interaction of emotion and cognitive control along the psychosis continuum: a critical review. *International Journal of Psychophysiology*, *147*, 156-175. doi: 10.1016/j.ijpsycho.2019.11.004
5. **Pinheiro, A. P.**, Schwartz, M., Gutierrez, F., & Kotz, S. A. (2019). When temporal prediction errs: ERP responses to delayed action-feedback onset. *Neuropsychologia*, *134*, 107200. doi: 10.1016/j.neuropsychologia.2019.107200
6. Amorim, M., Anikin, A., Mendes, A. J., Lima, C. F., Kotz, S. A., & **Pinheiro, A. P.\*** (in press). Changes in vocal emotion recognition across the life span. *Emotion*. doi: 10.1037/emo0000692
7. Johnson, J. F., Belyk, M., Schwartz, M., **Pinheiro, A. P.\***, & Kotz, S. A. (2019). The role of the cerebellum in adaptation: ALE meta-analyses on sensory feedback error. *Human Brain Mapping*, *40*(13), 3966-3981. doi: 10.1002/hbm.24681
8. Pereira, D. R., Sampaio, A., & **Pinheiro, A. P.\*** (2019). Differential effects of valence and encoding strategy on internal source memory and judgments of source: Exploring the production and the self-reference effect. *Frontiers in Psychology*, *10*, 1326. doi: 10.3389/fpsyg.2019.01326
9. **Pinheiro, A. P.**, Farinha-Fernandes, A., & Kotz, S. A. (2019). Self-voice perception and its relationship with hallucination predisposition. *Cognitive Neuropsychiatry*, *24*(4), 237-255. doi: 10.1080/13546805.2019.1621159
10. **Pinheiro, A. P.**, & Niznikiewicz, M. (2019). Altered attentional processing of happy prosody in schizophrenia. *Schizophrenia Research*, *206*, 217-224. doi: 10.1016/j.schres.2018.11.024
11. Soares, A. P., Macedo, J., Oliveira, H. M., Lages, A., Hernández-Cabrera, J., & **Pinheiro, A. P.** (2019). Self-reference is a fast-acting automatic mechanism on emotional word processing: evidence from a masked priming affective categorisation task. *Journal of Cognitive Psychology*, *31*(3), 317-325. doi: 10.1080/20445911.2019.1599003
12. **Pinheiro, A. P.**, Schwartz, M., & Kotz, S. A. (2018). Voice-selective prediction alterations in nonclinical voice hearers. *Scientific Reports*, *8*, 14717. doi: 10.1038/s41598-018-32614-9
13. Conde, T., Gonçalves, O. F., & **Pinheiro, A. P.\*** (2018). Stimulus complexity matters when you hear your own voice: Attention effects on self-generated voice processing. *International Journal of Psychophysiology*, *133*, 66-78. doi: 10.1016/j.ijpsycho.2018.08.007
14. **Pinheiro, A. P.**, Barros, C., Dias, M., & Kotz, S. A. (2017). Laughter catches attention! *Biological Psychology*, *130*, 11-21. doi:10.1016/j.biopsycho.2017.09.012
15. Castiajo, P., & **Pinheiro, A. P.\*** (2017). On “hearing” voices and “seeing” things: Probing hallucination predisposition in a Portuguese nonclinical sample with the Launay-Slade Hallucination Scale-Revised. *Frontiers in Psychology*, *8*, 1138. doi: 10.3389/fpsyg.2017.01138
16. **Pinheiro, A. P.**, Barros, C., Dias, M., & Niznikiewicz, M. (2017). Does emotion change auditory prediction and deviance detection? *Biological Psychology*, *127*, 123-133. doi:10.1016/j.biopsycho.2017.05.007
17. **Pinheiro, A. P.**, Rezaii, N., Rauber, A., Nestor, P. G., Spencer, K. M., & Niznikiewicz, M. (2017). Emotional self-other voice processing in schizophrenia and its relationship with hallucinations: ERP evidence. *Psychophysiology*, *54*(9), 1252-1265. doi: 10.1111/psyp.12880
18. **Pinheiro, A. P.**, Barros, C., Vasconcelos, M., Obermeier, C., & Kotz, S. A. (2017). Is laughter a better vocal change detector than a growl? *Cortex*, *92*, 233-248. doi: 10.1016/j.cortex.2017.03.018
19. **Pinheiro, A. P.**, Rezaii, N., Rauber, A., & Niznikiewicz, M. (2016). Is this my voice or yours? The role of emotion and acoustic quality in self-other voice discrimination in schizophrenia. *Cognitive Neuropsychiatry*, *21*(4), 335-353. doi: 10.1080/13546805.2016.1208611
20. Conde, T., Gonçalves, O. F., & **Pinheiro, A. P.\*** (2016). A Cognitive Neuroscience view of voice processing abnormalities in schizophrenia: a window into auditory verbal hallucinations? *Harvard Review of Psychiatry*, *24*(2), 148-163. doi: 10.1097/HRP.0000000000000082.

21. **Pinheiro, A. P.**, Rezaei, N., Nestor, P. G., Rauber, A., Spencer, K. M., & Niznikiewicz, M. (2016). Did you or I say pretty, rude or brief? An ERP study of the effects of speaker's identity on emotional word processing. *Brain and Language*, *153-154*, 38-49. doi:10.1016/j.bandl.2015.12.003
22. **Pinheiro, A. P.**, Barros, C., & Pedrosa, J. (2016). Salience in a social landscape: electrophysiological effects of task-irrelevant and infrequent vocal change. *Social Cognitive & Affective Neuroscience*, *11*(1), 127-139. doi: 10.1093/scan/nsv103
23. Conde, T., Gonçalves, O. F., & **Pinheiro, A. P.\*** (2016). The effects of stimulus complexity on the preattentive processing of self-generated and non-self voices: An ERP study. *Cognitive, Affective, & Behavioral Neuroscience*, *16*(1), 106-123. doi: 10.3758/s13415-015-0376-1
24. Conde, T., Gonçalves, O. F., & **Pinheiro, A. P.\*** (2015). Paying attention to my voice or yours: An ERP study with words. *Biological Psychology*, *111*, 40-52. doi: 10.1016/j.biopsycho.2015.07.014
25. **Pinheiro, A.P.**, Del Re, E., Nestor, P.G., Mezin, J., Rezaei, N., McCarley, R.W., Gonçalves, O.F., & Niznikiewicz, M. (2015). Abnormal interactions between context, memory structure, and mood in schizophrenia: An ERP investigation. *Psychophysiology*, *52*(1), 20-31. doi: 10.1111/psyp.12289
26. **Pinheiro, A.P.**, Rezaei, N., Rauber, A., Liu, T., Nestor, P.G., McCarley, R.W., Gonçalves, O.F., & Niznikiewicz, M. (2014). Abnormalities in the processing of emotional prosody from single words in schizophrenia. *Schizophrenia Research*, *152*(1), 253-241. doi: 10.1016/j.schres.2013.10.042
27. **Pinheiro, A. P.**, del Re, E., Mezin, J., Rauber, A., Nestor, P. G., McCarley, R. W., Gonçalves, O. F., & Niznikiewicz, M. (2013). Sensory-based and higher-order operations contribute to abnormal emotional prosody processing in schizophrenia: an electrophysiological investigation. *Psychological Medicine*, *43*(3), 603-618. doi: 10.1017/S003329171200133X
28. **Pinheiro, A. P.**, del Re, E., Nestor, P., McCarley, R. W., Gonçalves, O. F., & Niznikiewicz, M. (2013). Interactions between mood and the structure of semantic memory: Event-related potentials evidence. *Social Cognitive & Affective Neuroscience*, *8*(5), 579-594. doi: 10.1093/scan/nss035
29. Liu, T., **Pinheiro, A. P.**, Zhao, Z., McCarley, R. W., & Niznikiewicz, M. (2012). Emotional cues during simultaneous face and voice processing: electrophysiological insights. *PLoS One*, *7*(2), e31001. doi: 10.1371/journal.pone.0031001
30. Liu, T., **Pinheiro, A. P.**, Deng, G., Nestor, P. G., McCarley, R. W., & Niznikiewicz, M. (2012). Electrophysiological insights into processing nonverbal emotional vocalizations. *NeuroReport*, *23*, 108-112. doi: 10.1097/WNR.0b013e32834ea757

### 3. Funding:

*As PI:*

- 2017-2019 "When prediction errs: Examining the brain dynamics of altered saliency in self-voice perception" (BIAL 238/16 – funded by BIAL Foundation [29.500,00€]).
- 2016-2019 "I predict, therefore I do not hallucinate: a longitudinal study testing the neurophysiological underpinnings of auditory verbal hallucinations" (PTDC/MHC-PCN/0101/2014 – funded by FCT [193.739,00€]).
- 2013-2015 "Examining abnormalities in auditory emotional processing in schizophrenia: an electrophysiological investigation with high-risk, early-stage and chronic patients" (PTDC/MHN-PCN/3606/2012 – funded by FCT [76.932,00€]).
- 2012-2015 "Electrophysiological investigation of auditory affective processing in schizophrenia and its relationship with self-monitoring: a window into auditory hallucinations?" (PTDC/PSI-PCL/116626/2010 – funded by FCT [105.476,00€]).

### 4. Scientific Committees:

- 2020-... Member of the Directive Board of the Lisbon University Doctoral Program in Integrative Neuroscience – NeurULisboa (University of Lisbon).
- 2014-2015 Member of the Scientific Board of the Research Center in Psychology (University of Minho) and of the School of Psychology (University of Minho).
- 2014-2015 Member of the Directive Board of the Ph.D. Program in Basic Psychology (University of Minho).
- 2014-2015 Member of the International Travel Award Committee of the Society of Biological Psychiatry.

**5. Editorial Boards:** Scientific Reports; Frontiers in Psychology; Section Language Sciences.

**6. Ad-Hoc Journal Reviewer:** Journal of Neurolinguistics; Language and Cognitive Processes; Child Neuropsychology; Developmental Neuropsychology; Acta Psychiatrica Scandinavica; Research in Developmental Disabilities; Schizophrenia Research; Schizophrenia Bulletin; International Journal of Psychophysiology; Psychological Medicine; Research in Autism

Spectrum Disorders; Psychiatry Research; Psychophysiology; Social Neuroscience; Cortex; Brain & Language; Neuropsychologia; Social Cognitive & Affective Neuroscience; Frontiers in Psychology; Experimental Brain Research; Behavior Research Methods; Scientific Reports; Biological Psychology; Psychophysiology; Cognition and Emotion; Motivation and Emotion; Human Brain Mapping; Emotion; Cognitive, Affective, & Behavioral Neuroscience; European Journal of Neuroscience; Journal of the Acoustical Society of America; Quarterly Journal of Experimental Psychology.

**7. Grant Reviewer:** Marie Skłodowska-Curie Individual Fellowships; FET-Open; European Research Council – Synergy Grants; Leading Fellows Programme (The Netherlands); Economic & Social Research Council (UK); Swiss National Science Foundation; Austrian Science Fund (Hertha Firnberg-Position; FWF); APSSC Students Grant Competition and APSSC Student Research Award (Association for Psychological Science).

**8. Memberships:** Schizophrenia International Research Society; Society of Biological Psychiatry; Cognitive Neuroscience Society; European Society for Cognitive and Affective Neuroscience; Society for the Neurobiology of Language; Society for Psychophysiological Research; Women in Cognitive Science; Portuguese Association of Experimental Psychology.