

**Notice for the attribution of one Research Fellowship (BI) (Master's Degree level)  
Research project "When prediction errs: Examining the brain dynamics of altered saliency in self-voice  
perception" (BIAL N<sup>o</sup> 238/16)**

**Title: Research Fellowship (Master's Degree level) - Ref. FPUL/BIAL/BI/2017/08 – 1 position**

One Research Fellowship (BI) (Master's Degree level) is opened at Faculdade de Psicologia da Universidade de Lisboa (Faculty of Psychology, University of Lisbon), in the framework of the Project entitled "When prediction errs: Examining the brain dynamics of altered saliency in self-voice perception", with the reference N<sup>o</sup> 238/16, funded by BIAL Foundation, with the following conditions:

**Scientific Domain:** Psychology, Neuroscience, Biomedical Engineering, or related area.

**1. Admission criteria:**

**- Mandatory admission criteria:**

- a) Master's degree in Psychology, Neuroscience, Biomedical Engineering, or related area;
- b) Certified experience in EEG data acquisition and analyses;
- c) Proficiency in written and spoken English.

**- Preferential admission criteria:**

- a) Advanced training in computer programming (e.g., Presentation, Matlab);
- b) Experience with MRI data analyses;
- c) Strong interest in Cognitive Neuroscience;
- d) Excellent interpersonal and problem-solving skills, critical thinking, and written/oral communication skills;
- e) Immediate availability.

**2. Work plan:**

In this project, funded by BIAL Foundation, we aim to explore the neurofunctional bases of self-voice perception, by combining behavioral and brain research. The successful candidate will be involved in:

- recruiting and assessing research participants;
- programing experiments and stimulus delivery using Presentation/E-Prime software;
- using statistical programs such as SPSS or R to manage participants' data and run statistical tests;
- conducting EEG data collection and analyses;
- conducting MRI data analyses;
- collaborating in the preparation of manuscripts to be submitted to international peer-reviewed journals.

The researcher will work directly with Dr. Ana Pinheiro at the University of Lisbon, in collaboration with Prof. Sonja A. Kotz at the University of Maastricht.

### 3. Legislation and regulation:

Status of the Research Scholar approved by Law Nr. 40/2004, of August 18, altered by Decree-Law nr. 202/2012, of August 27 and by Decree-Law nr. 233/2012, of October 29, by Law nr.12/2013, of January 29, and by Decree-Law nr. 89/2013, of July 9, and by Regulation of Research Scholarships of the Science and Technology Foundation (FCT), approved by Regulation nr. 234/2012, of June 25, altered by Regulation nr. 326/2013, of August 27, 2013, and by Regulation nr. 339/2015, published at II Series of the Republic Diary of June 17, 2015, and by the Regulation of Research Scholarships of the University of Lisbon (order nr. 6984/2014, published at the Republic Diary, II series, nr. 102, of May, 28, 2014), altered by order (extract) nr. 6977/2015, of June 23, 2015.

### 4. Workplace:

The research work will take place at the Research Unit of Faculdade de Psicologia da Universidade de Lisboa (Faculty of Psychology, University of Lisbon), as host institution, and will be coordinated by Prof. Ana P. Pinheiro (Scientific Supervisor).

**5. Scholarship Duration:** The scholarship has a duration of 12 months, with expected start on July 2017.

**6. Monthly grant value:** Salary will be of 980,00€ (nine hundred and eighty euros) net per month, according to the Portuguese Foundation for Science and Technology (FCT) research grants pay scale (<http://alfa.fct.mctes.pt/apoios/bolsas/valores.phtml.pt>). The grant will be paid monthly, by bank transfer or cheque. The research fellowship will benefit from a personal accidents insurance and may benefit from social security by signing up to a voluntary social insurance, under Decree-Law nr. 40/89, of February 1.

**7. Selection methods:** The selection process will be based on curricular evaluation, motivation letter, and letters of recommendation. Candidates may be invited for an interview. The assessment of the applications will consider the following criteria, evidenced by certificates or reference letters, and through the formula:

$$\frac{(A+B+C)}{3}$$

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#### Criterion A – Academic Training and Motivation for Neuroscience

a) Master's Degree Academic in Psychology, Neuroscience, Biomedical Engineering, or related area of relevance for the current scholarship:

- Final grade from 18 to 20: 16 - 18 points.
- Final grade from 14 to 17: 12 - 15 points;
- Final grade of 13 or less: 8 - 11 points.

b) Certificated proficiency in written and spoken English: 0 to 2 points.

#### Criterion B – Scientific production in the domain of Psychology, Neuroscience or Biomedical

**Engineering**, related to: 1) neural bases of perception and cognition; or 2) EEG/MRI signal processing; or 3) auditory processing and acoustic manipulation of voice signals:

- a) Papers published in peer-reviewed scientific journals with impact factor (Web of Science and/or Scopus): 0 - 10 points;
- b) Other publications: 0 - 5 points;



c) Presentation of research work at national and international conferences: 0 - 5 points.

**Criterion C – Certified Experience in Brain and Experimental Research:**

The following parameters will be considered:

- a) Experience in EEG data collection: 0 - 5 points;
- b) Experience in EEG data analyses / EEG signal processing: 0 - 5 points;
- c) Experience in MRI data analysis: 0 - 4 points;
- d) Experience in programming experimental tasks, using softwares such as E-Prime or Presentation: 0 - 3 points;
- e) Proficiency in quantitative data analysis and use of statistical data analysis softwares (e.g., SPSS, R): 0 - 3 points.

**Criterion D - Interview (if applicable):**

The selection panel may decide, if necessary, interviewing the candidates that achieve the top ranking. The interview aims to better evaluate the professional experience, particularly related to the admission criteria, motivation to conduct research in the scientific area of the project, and relational and behavioral aspects. The assessment of the interview can range from 0 to 20 points. In this case, the formula to consider will be:

$$\frac{A+B+C+(D \times 2)}{5}$$

**8. Selection comitee:** The selection comitee was designated through Dispatch of the Dean of Faculdade de Psicologia da Universidade de Lisboa (Faculty of Psychology, University of Lisbon), of June 12<sup>th</sup> 2017, and has the following constitution: Prof. Ana P. Pinheiro, Assistant Professor at Faculdade de Psicologia da Universidade de Lisboa (Faculty of Psychology, University of Lisbon), as president; Prof. Sonja A. Kotz, Full Professor at Faculty of Psychology and Neuroscience, University of Maastricht; and Prof. Michael Schwartze, Assistant Professor at Faculty of Psychology and Neuroscience, University of Maastricht.

**9 Communication of Results:** The final results of the evaluation process will be communicated as a ranked list of the candidates, based on the final evaluation grade. This list will be posted at a visible and public place of Faculdade de Psicologia da Universidade de Lisboa (Faculty of Psychology, University of Lisbon), and published at the website <http://www.psicologia.ulisboa.pt/>. The selected candidate will be notified via e-mail.

**10. Application deadline and application process:** The application period occurs from June 29<sup>th</sup> 2017 to July 12<sup>th</sup> 2017. The candidate should send the following documents:

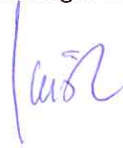
- a) A requirement that is provided at <http://www.psicologia.ulisboa.pt/>, duly filled;
- b) Copy of title of residence, certificate of permanent residence or status of long-term duration residence, if applicable;
- c) Motivation letter;
- d) Curriculum Vitae;
- e) Copy of certificate of the degree required for the current application, stating the final grade;
- f) Copy of certificates/training certificates;
- g) 2 Letters of Reference;

h) Other elements judged pertinent for the current application.

The applications should be sent exclusively via email to [bolsasfp@psicologia.ulisboa.pt](mailto:bolsasfp@psicologia.ulisboa.pt), to the attention of Prof. Ana Pinheiro, mentioning the reference number of the fellowship application (FPUL/BIAL/BI/2017/08).

Faculdade de Psicologia da Universidade de Lisboa, june 12<sup>th</sup> 2017,

Dean of Faculdade de Psicologia da Universidade de Lisboa



(Prof. Luís Alberto Santos Curral)