

# Catarina Barros

## PROFILE



**Full Name** Catarina Alexandra Ferreira Barros

**Date of birth** 13/05/1995

**Nationality** Portuguese

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## EDUCATION

September 2019 – **MOMENT**

**PhD IN BASIC PSYCHOLOGY | PSYCHOLOGICAL NEUROSCIENCE LAB**

*SCHOOL OF PSYCHOLOGY | PSYCHOLOGY RESEARCH CENTER (CIPSI) | UNIVERSITY OF MINHO*

**PhD thesis:** The effect of lifestyle on the brain structure, anxious-depressive symptomatology and executive functioning: a mediation and moderation model approach in young and older adults

Supervisors: Dr. Diego Pinal & Dra. Adriana Sampaio

September 2013 – July 2018

**INTEGRATED MASTER'S DEGREE IN PSYCHOLOGY | GRADE: 17 (Classification A on the ECTS Scale)**

*UNIVERSITY OF MINHO*

**Master thesis:** GRADE: 18

**Curricular Internship:** GRADE: 17

September 2017 – June 2018

**EUROPEAN MASTER - PSYCHOLOGY OF NEUROCOGNITIVE PROCESSES AND AFFECTIVE SCIENCE**

*UNIVERSITY OF LILLE | ERASMUS+ | GRADE: 17 (Mention Très Bien)*

September 2010 – June 2013

**SCIENTIFIC AND HUMANISTIC SCIENCES AND TECHNOLOGIES**

*DIDÁXIS COOPERATIVA DE ENSINO | GRADE: 17*

July 2019 – MOMENT

## RESEARCH FELLOW

PSYCHOLOGICAL NEUROSCIENCE LAB – UNIVERSITY OF MINHO

**Project:** Identificación de los mediadores funcionales der la relación entre los marcadores de RCV, RC e IS y el control cognitivo en el envejecimiento

- Clinical interviews.
- Neuropsychological evaluations.
- EEG data collection

December 2018 – June 2019

## RESEARCH FELLOW

UNIVERSITY OF PORTO (FACULTY OF MEDICINE) – INSTITUTE OF PUBLIC HEALTH (ISPUP)  
IN PARTNERSHIP WITH IPO-PORTO AND CENTRO HOSPITAL UNIVERSITÁRIO DE SÃO JOÃO

**Project:** NEON-BC: Prospective cohort study on neurological complications of breast cancer: frequency and impact on patient reported outcomes.

- Clinical Interviews.
- Neuropsychological evaluations.
- Collection of biological data (including blood separation).
- Data collection of hospital clinical processes and its systematization.
- Cognitive monitoring with “Brain on Track” and cognitive stimulation with “Cogweb”.
- Management of databases and data analysis.
- Scientific writing.

October 2018

## RESEARCH COLLABORATOR

UNIVERSITY OF PORTO (FACULTY OF SPORT)

ASSOCIATION OF PSYCHOLOGY (PSYCHOLOGICAL NEUROSCIENCE LABORATORY) – UNIVERSITY OF MINHO

**Project:** Towards a predictive model of cognitive control across lifespan

- Neuropsychological assessments in elderly population. It was intended to understand the role of physical exercise in the executive functioning of the elderly.

July 2018

## RESEARCH COLLABORATOR

GUIMARÃES – BRAGA (PORTUGAL)

ASSOCIATION OF PSYCHOLOGY (PSYCHOLOGICAL NEUROSCIENCE LABORATORY) – UNIVERSITY OF MINHO

**Project:** Executive functioning of high competition athletes

- Neuropsychological assessments in the team A and B of Vitória Sport Club.
- Application of questionnaires and self-reports that estimate different skills/psychological characteristics, such as anxiety control, self-control, and coping strategies used during the competition.

January 2018 – July 2018

## INTERNSHIP ON NEUROPSYCHOLOGY

ASSOCIATION OF PSYCHOLOGY (PSYCHOLOGICAL NEUROSCIENCE LABORATORY) – UNIVERSITY OF MINHO

Neuropsychological evaluations.

- Writing reports.
- Development of neurocognitive stimulation programs.
- Experience with the program “As incríveis aventuras de Anastácio: o Explorador”.
- Experience with the application of “Fear therapy”.
- Collaboration in the **Erasmus+ project “(IN)school – developing skills for life”**: development of a protocol for the evaluation of the neurocognitive and emotional profile

October 2017 – December 2017

## RESEARCH INTERSHIP

EQUIPE DYNAMIQUE EMOTIONNELLE ET PATHOLOGIES (DEEP) – SCALAB

**Project:** The emotional coding in Anxiety and Depression: looking for autonomic markers

- Research for neuronal markers in depressive individuals.
- Data analysis and literature review of autonomic reactivity of depressive patients to emotional visual stimuli. Presentation of two oral syntheses in the weekly seminars. Technique: Autonomic indexes (electrodermal activity, pupil, cardiovascular variables and respiration) with BIOPAC.

October 2013 – June 2016

## RESEARCH COLLABORATOR

HUMAN MEMORY RESEARCH GROUP -HUMAN COGNITION LABORATORY – UNIVERSITY OF MINHO

- I helped with the conduction of several experiments.
- Participation in weekly seminars about the development of the research conducted at the laboratory
- During 2015/16 I have developed and conducted an investigation with Dr. Pedro Albuquerque and Joana Dias about the Truth Effect
- In April of 2016 we presented this study at ISCTEL-IUL, at the X National Meeting of the Portuguese Association of Experimental Psychology (APPE). And, in May of 2016 we presented the same research project at SIPUM (Seminar of Investigation in Psychology of the University of Minho).

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## TEACHING ASSISTANCE

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September 2019 – MOMENT

### INTRODUCTION TO NEUROSCIENCE

UNIVERSITY OF MINHO

Weekly classes given to B.Sc. students. in Psychological Sciences

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## FORMATIONS

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MARCH 2019 | *Neuroinova* | E-LEARNING FORMATION: COGWEB

Duration: 2h

- Introduction to the platform Cogweb
- Creation of stimulation programs

October - November 2018 | *Centro de Psicologia e Formação* | WORKSHOP: NEUROPSYCO-ONCOLOGY

Duration: 6h

- Introduction to neuropsychology
- ChemoBrain
- Signals and Symptoms of the ChemoBrain
- Neuropsychological evaluation of the Chemobrain
- Multidisciplinary approach in the Chemobrain rehabilitation

June - July 2018 | *Coursera* | ÉTUDIER EN FRANCE: COURS DE FRANÇAIS INTERMÉDIAIRE B1-B2

Duration: 50 h

May - June 2018 | *Coursera* | FUNDAMENTAL NEUROSCIENCE FOR NEUROIMAGING

Duration: 8h

- Structural Neuroanatomy of the Human Brain
- Functional Neuroanatomy of the Human Brain
- Principles and Methods of Neuroimaging (MRI, diffusion tensor imaging, magnetic resonance spectroscopy, perfusion imaging, and positron emission tomography imaging)
- Experimental design and special applications in neuroimaging

April - May 2018 | *ReConstruir – Psicologia e Desenvolvimento Pessoal* | INTENSIVE COURSE OF COGNITIVE STIMULATION PROGRAMS IN ELDERLY POPULATION (E-LEARNING)

Duration: 60h | Grade: 20/20

- The aging process
- Cognitive stimulation
- Cognitive stimulation programs

April 2018 | *Psychological Neuroscience Laboratory* | WORKSHOP "HOW TO CONDUCT YOUR OWN SYSTEMATIC REVIEW"

Duration: 2 hours

- Search strategy on different databases
- Covidence
- Prisma Flow Diagram
- Prospero
- Quality Assessment
- Index of Inter-rater Reliability: Cohen's Kappa

Mars - April 2018 | *ReConstruir – Psicologia e Desenvolvimento Pessoal* | INTENSIVE COURSE OF NEUROPSYCHOLOGICAL EVALUATION (E-LEARNING)

Duration: 50h | Grade: 20/20

- Cognitive functions
- Neuropsychological tests
- Clinical interview
- Writing reports

February 2018 | *ReConstruir – Psicologia e Desenvolvimento Pessoal* | PSICO-ONCOLOGIA

Duration: 4 hours

- Cancer
- Evaluation and Intervention in patients with cancer and caregivers

November - December 2017 | **EquiPex IrDIVE** | EXPERIMENTAL TRAINING FOR RECORDING PHYSIOLOGICAL PARAMETERS

Duration: 14 hours

- Training with Face Reader
- Acquisition of heart rate and electrodermal activity with BIOPAC
- Development of an experimental paradigm with E-Prime
- Familiarization with the software Acqknowledge

November - December 2017 | **EquiPex IrDIVE** | EXPERIMENTAL TRAINING ON EYETRACKERS

Duration: 14 hours

- Training with SMI-Red 120
- Development of an experimental paradigm with Experiment Center
- Data observation with SMI BeGaze

November - December 2017 | **EquiPex IrDIVE** | MOTION CAPTURE EXPERIMENTAL TRAINING WITH QUALYSIS SYSTEM

Duration: 7 hours

- Equipment calibration
- Experiment with an avatar

October 2017 | *Centre Hospitalaire Régional Universitaire de Lille* | WORKSHOP: TRANSCRANIAL MAGNETIC STIMULATION (TMS)

Duration: 3h

- Basic knowledge in Transcranial Magnetic Stimulation (TMS)
- Stimulation of the primary motor cortex

September 2017 | **SCALab** | INTRODUCTION TO PROGRAMMING WITH MATLAB

Duration: 3 days | Grade: 17/20

- Scalar, vector, matrices and strings
- Control flow and loops
- Scripts and fonctions creation
- Psychtoolbox

July 2017 | **ERASMUS + LANGUAGE ASSESSMENT** | LANGUAGE ASSESSMENT IN ENGLISH LEVEL C2

Mars - July 2017 | **babeliUM** | FRENCH COURSE LEVEL A2

Duration: 48 hours

June 2015 - June 2017 | **CAMBRIDGE ENGLISH** | CAMBRIDGE ENGLISH LEVEL 2 CERTIFICATE IN ESOL INTERNATIONAL (ADVANCED) LEVEL C1

Duration: 2 years

October - November 2016 | *Escola de Socorrismo da Cruz Vermelha Portuguesa* | EUROPEAN FIRST AID COURSE

Duration: 12 hours

- Basic Principles / 4 steps in First Aid
- Basic support of life
- External automatic defibrillation
- Bleeding, slit and burns
- Head, neck or back injuries
- Injuries to bones, muscles or joints
- Intoxications, precordial pain and stroke

Mars - July 2015 | **School of Psychology of University of Minho** | BASIC SKILLS OF ATTENDANCE

Duration: 3 hours

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## PUBLICATIONS

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**Barros, C., Albuquerque, P., El Haj, M., (2019).** The effect of distinctive facial features on destination memory. Manuscript submitted for publication.

**Cruz, S., Lifter, K., Barros, C., Vieira, R., & Sampaio, A., (2018).** Neural and psychophysiological correlates of social communication development: evidence from sensory processing, motor, cognitive, language and emotional behavioral milestones across infancy. Manuscript submitted for publication.

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## PRESENTATIONS

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**2019 | INTERNATIONAL CONVENTION OF PSYCHOLOGICAL SCIENCE (ICPS)**

**Scientific Poster:** "Destination Memory and the Effect of Distinctive Features on the Other Party of the Interaction"

**2018 | IV CONGRESS OF THE ORDER OF PORTUGUESE PSYCHOLOGISTS**

**Scientific Poster:** "O efeito de um programa de autorregulação no comprometimento das funções executivas: um estudo de caso"

**2018 | JORNADAS APSI: SELF-REGULATION AND HUMAN DEVELOPMENT**

**Scientific Poster:** "O efeito de um programa de autorregulação no comprometimento das funções executivas: um estudo de caso"

**2018 | IX SEMINAR OF INVESTIGATION IN PSYCHOLOGY OF THE UNIVERSITY OF MINHO (SIPUM)**

**Oral communication:** "Better destination memory for conversations with people with pink hair?"

**2018 | XIII NATIONAL MEETING OF THE PORTUGUESE ASSOCIATION OF EXPERIMENTAL PSYCHOLOGY (APPE)**

**Scientific Poster:** "Destination memory in young adults: Can it be improved by facial distinctive features?"

**2016 | VII SEMINAR OF INVESTIGATION IN PSYCHOLOGY OF THE UNIVERSITY OF MINHO (SIPUM)**

**Scientific Poster:** "A repeated lie becomes a truth? The effect of the illusion of truth"

**2016 | XI NATIONAL MEETING OF THE PORTUGUESE ASSOCIATION OF EXPERIMENTAL PSYCHOLOGY (APPE)**

**Scientific Poster:** "Processing fluency and the illusion of truth"

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## SEMINARS/CONFERENCES

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**2019 | INTERNATIONAL CONVENTION OF PSYCHOLOGICAL SCIENCE (ICPS) | PARIS**

**2019 | ONCOLOGY REGISTRIES MEETING | PORTUGUESE INSTITUTE OF ONCOLOGY OF PORTO (IPO-PORTO)**

**2018 | CONGRESS OF ONCOLOGY: THE QUALITY OF LIFE OF CANCER PATIENTS | BRAGA FORUM**

**2018 | IV CONGRESS OF THE ORDER OF PORTUGUESE PSYCHOLOGISTS | BRAGA FORUM**

**2018 | JORNADAS APSI: SELF-REGULATION AND HUMAN DEVELOPMENT | GUIMARÃES**

**2018 | XIII NATIONAL MEETING OF THE PORTUGUESE ASSOCIATION OF EXPERIMENTAL PSYCHOLOGY (APPE) | UNIVERSITY OF MINHO**

**2018 | IX SEMINAR OF INVESTIGATION IN PSYCHOLOGY OF THE UNIVERSITY OF MINHO | UNIVERSITY OF MINHO**

**2017 | GDR-VISION | LILLE**

**2016 | X NATIONAL MEETING OF THE PORTUGUESE ASSOCIATION OF EXPERIMENTAL PSYCHOLOGY (APPE) | ISCTE-IUL (LISBON)**

**2016 | VII SEMINAR OF INVESTIGATION IN PSYCHOLOGY OF THE UNIVERSITY OF MINHO | UNIVERSITY OF MINHO**

**2016 | WEBINAR "SUICIDE IN ADOLESCENCE" | UNIVERSITY OF MINHO**

**2016 | DESCRIPTIVE PSYCHOPATHOLOGY AND PSYCHIATRIC NOSOLOGY: DESCRIBE THE SYMPTOMS AND GROUP THEM INTO MENTAL DISORDERS | UNIVERSITY OF MINHO**

**2015 | IX NATIONAL MEETING OF THE PORTUGUESE ASSOCIATION OF EXPERIMENTAL PSYCHOLOGY (APPE) | UNIVERSITY OF ALGARVE**

## IDIOMS

PORTUGUESE (Native)

ENGLISH (C1)

FRENCH (B1)

## REVIEWER

MARCH 2019 – APRIL 2019 ● ASSOCIATION FOR PSYCHOLOGICAL SCIENCE (APS) | WASHINGTON DC  
REVIEWER FOR THE RISE RESEARCH AWARD

Review of two research projects

DECEMBER 2018 - MOMENT ● INSTITUTE OF PUBLIC HEALTH OF UNIVERSITY OF PORTO (ISPUP) | PORTO  
MEMBER OF THE SCIENTIFIC COMMISSION

Contribute to the continuous improvement of the quality of the scientific texts prepared by ISPUP researchers

DECEMBER 2018 – JANUARY 2019 ● ASSOCIATION FOR PSYCHOLOGICAL SCIENCE (APS) | WASHINGTON DC  
REVIEWER FOR THE STUDENT GRANT COMPETITION

Review of four research projects

## VOLUNTEERING

SEPTEMBER 2018 - MOMENT ● ASSOCIATION FOR PSYCHOLOGICAL SCIENCE (APS) | WASHINGTON DC  
CAMPUS REPRESENTATIVE AT UNIVERSITY OF MINHO

The purpose of the campus representative program is to increase communication between students and APS/APSSC.

SEPTEMBER 2018 – FEBRUARY 2019 ● PORTUGUESE RED CROSS | BRAGA

**Project:** “Play4Equality” intends to act and raise awareness about issues of dating violence, human trafficking and gender equality

SEPTEMBER 2018 ● ORDER OF PORTUGUESE PSYCHOLOGISTS | BRAGA

Member of the organization of the 4<sup>th</sup> congress

APRIL 2016 – MAY 2016 ● CENTRO JUVENIL SÃO JOSÉ | GUIMARÃES

Implementation of a personal and social development program in children and young adults without family support or at risk of social exclusion.

## AWARDS

MARCH 2019 ● SCHOOL OF PSYCHOLOGY, UNIVERSITY OF MINHO | BRAGA

Award for the Best Student of the Integrated Master of Psychology year 2017-2018

SEPTEMBER 2018 ● ASSOCIATION FOR PSYCHOLOGICAL SCIENCE (APS) | WASHINGTON DC

Travel Grant to support the attendance at the International Convention of Psychological Science (ICPS) in Paris

MAY 2018 ● JORNADAS DE APSI: AUTORREGULAÇÃO E DESENVOLVIMENTO HUMANO | GUIMARÃES

“Best Poster” for the study case “The effect of a self-regulatory program in the deficit of executive functions: a study case”

SEPTEMBER 2013 ● CÂMARA MUNICIPAL | VILA NOVA DE FAMALICÃO

Young entrepreneur

## MEMBERSHIPS

ORDER OF PORTUGUESE PSYCHOLOGISTS | DECEMBER 2018 – MOMENT

ASSOCIATION FOR PSYCHOLOGICAL SCIENCE (APS) | DECEMBER 2017 – MOMENT