

Sofia de la Fuente Garcia, MBPsS, PhD

Teaching Fellow, University of Edinburgh

Fellow of the HEA

BPS Member with GBC

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EDUCATION

- **MSc Family and Systems Psychotherapy (part-time)** Jan 2021 - ongoing
Basque Institute for Systemic and Family Psychotherapy Online learning
- **PhD Precision Medicine: speech markers for cognitive health** Sept 2016 - Sept 2020
Usher Institute, Edinburgh Medical School The University of Edinburgh, UK
- **Gestalt Psychotherapy Training: foundation year** Oct 2018 - July 2019
Edinburgh Gestalt Institute Edinburgh, UK
- **MSc Methodology for Behavioural and Health Sciences** Sept 2015 - June 2017
Average grade: 9.21/10 (2.89/4). Graduated with honours Universidad Autonoma de Madrid, Spain
- **BSc Psychology with Y4 electives in Clinical Psychology** Sept 2011 - June 2015
Average grade: 8.48/10 (2.68/4). Graduated with honours Universidad Complutense de Madrid, Spain
 - **Y4 Placement:** Assistant Emergency Psychologist in Ambulance Services
- **MBChB Medicine** Sept 2010 - June 2011
Individual modules Universidad Complutense de Madrid, Spain
 - **Y1 Modules:** Anatomy, Cellular biology, Biochemistry, Genetics, Immunology, Physiology Biophysics.

TEACHING, OUTREACH AND WIDENING PARTICIPATION EXPERIENCE

- **MSc Teaching Assistant: Data Science for Health and Social Care** Sept 2021 - Jan 2022
Edinburgh Medical School: online learning The University of Edinburgh, UK
- **MBChB SSC-Y2 Project supervisor** Oct 2021 - Jan 2022
Edinburgh Medical School The University of Edinburgh, UK
- **MBChB Teaching Assistant: Research and Evidence-Based Medicine** Sept 2021 - Dec 2022
Edinburgh Medical School The University of Edinburgh, UK
- **Honours Project supervisor** Nov 2020 - May 2021
Biomedical Sciences The University of Edinburgh, UK
- **Tutor for The Scholars Programme** Nov 2020 - Intermittent
'The Brilliant Club' (non-profit organisation aimed to widen access to university) Scotland, UK
- **UG Teaching Assistant: Psychology** Sept 2018 - May 2020
School of Philosophy, Psychology and Language Sciences The University of Edinburgh, UK
- **MBChB Teaching Assistant: Medical Informatics** Sept 2017 - May 2018
Edinburgh Medical School The University of Edinburgh, UK
- **MSc Assistant supervisor** Feb 2018 - Nov 2018
Public Health The University of Edinburgh, UK

TRAINING (RELEVANT TO EDUCATION ENVIRONMENTS)

- **An Edinburgh Model for Online Teaching** Ongoing
Online training The University of Edinburgh
- **Consent, Non-violent Communication and De-escalation Workshops** Intermittent
BFS volunteer in biannual performance events Edinburgh, UK
- **Suicide First Aid** May 2018
National Centre for Suicide Prevention Education & Training London, UK

RESEARCH EXPERIENCE

- **Post-doctoral Research Fellow** June 2020 - ongoing
Speech analysis for dementia detection / Psychological consequences of COVID-19 The University of Edinburgh
- **Scientific consultancy** October 2021
Cumulus Neuroscience Ltd.
- **Journal Reviewer** Sept 2020 - ongoing
Computer Speech & Language, Frontiers Psychology/Ageing Neuroscience, Health Informatics
- **Research Assistant: Clinical Neuroscience** May 2016 - July 2016
Magnetoencephalography (MEG) unit. Advisor: Daniel Lundqvist Karolinska Institutet, Stockholm, Sweden
- **Research Assistant: Computational Neuroscience (MEG)** Nov 2015 - May 2016
Centre for Biomedical Technology. Advisor: Fernando Maestu Madrid, Spain
- **Research Assistant: Cognitive Psychology** Nov 2014 - May 2015
Centre for Biomedical Technology. Advisors: Fernando Maestu and Francisco de Vicente Madrid, Spain
- **Research Assistant: Language Neuroscience** May 2014 - July 2014
UoE VRA Programme. Advisor: Mante Nieuwland The University of Edinburgh, UK

AWARDS

- **Transitional Fellowship Award** June 2020 - June 2021
Usher Institute The University of Edinburgh, UK
- **Edinburgh Teaching Award** Oct 2018 - ongoing
Fellow of the Higher Education Academy The University of Edinburgh, UK
- **Research Project Support award (MSc)** Sept 2015 - May 2016
UAM research fund Universidad Autonoma de Madrid, Spain
- **Research Project Support Award (Honours)** Sept 2014 - May 2015
Spanish Ministry of Education Universidad Complutense de Madrid, Spain
- **Academic Excellence Award (UG)** Sept 2011 and 2012
Spanish Ministry of Education Universidad Complutense de Madrid, Spain

PROJECTS

- **PsyVoid:** ongoing research project on the psychological consequences of COVID-19, with a focus on coping strategies, anxiety and personality traits and an additional exploratory analysis of their association with voice features.
- **Corpus Curiosum Ambassador in the UK:** Outreach project to organise lecture series and debates, catering to early career researchers in Neuroscience which aims to promote critical thinking within the field and beyond.
- **Collaboration with PST Inc., Japan:** The research protocol designed during my doctoral research is being collaboratively translated and adapted for research and development in Japan.
- **Collaboration with Hospital Clinico San Carlos, Spain.:** The research protocol designed during my doctoral research has been translated and adapted for research and development in Spain, currently in use for a project on aphasia.

SOFTWARE AND PROGRAMMING

- **Programming languages:** R (competent user), Matlab and Python (basic user)
- **Document preparation:** Latex (and Overleaf), MS Office.
- **Other:** SPSS, BB Collaborate and other platforms for online teaching

PUBLICATIONS

Luz, S., Haider, F., **de la Fuente Garcia, S.**, Fromm, D., MacWhinney, B. (2021). Editorial: Alzheimer's Dementia Recognition through Spontaneous Speech *Frontiers in Computer Science*

de la Fuente Garcia, S., Haider, F., Luz, S. (2021). Affect recognition through voice analysis during the winter lockdown in Scotland. *IEEE Engineering in Medicine & Biology Conference (EMBC 2021)*

Ambegaonkar, A., Ritchie, C., and **de la Fuente Garcia, S.** (2021). The Use of Mobile Applications as Communication Aids for People with Dementia: Opportunities and Limitations. *JAD Reports*.

de la Fuente Garcia, S., Ritchie, C., Luz, S. (2020, November). Factor analysis of acoustic-prosodic features as an approach to predicting risk-factors for dementia in a healthy population. In *AAIC Neuroscience*.

de la Fuente Garcia, S., Ritchie, C., Luz, S. (2020). Artificial Intelligence, speech and language processing approaches to monitoring Alzheimer's Disease: a systematic review. *Journal of Alzheimer's Disease*.

Luz, S., Haider, F., **de la Fuente Garcia, S.**, Fromm, D., & MacWhinney, B. (2020) Alzheimer's Dementia Recognition Through Spontaneous Speech: The ADReSS Challenge. In *Proc. Interspeech 2020, 2172-2176*.

de la Fuente Garcia, S., Haider, F., & Luz, S. (2020). Cross-corpus Feature Learning between Spontaneous Monologue and Dialogue for Automatic Classification of Alzheimer's Dementia Speech. In *IEEE - EMBC*.

Haider, F., **de la Fuente Garcia, S.**, Albert, P., & Luz, S. (2020). Affective speech for Alzheimer's dementia recognition. In *LREC 2020: Language Resources and Evaluation Conference 11-16 May 2020* (p. 67).

de Frutos-Lucas, J., López-Sanz, ..., **de la Fuente Garcia, S.**, ... & Maestú, F. (2020). Enhancement of posterior brain functional networks in bilingual older adults. *Bilingualism: Language and Cognition, 23*(2).

Haider, F., **de La Fuente Garcia, S.**, & Luz, S. (2019). An Assessment of Paralinguistic Acoustic Features for Detection of Alzheimer's Dementia in Spontaneous Speech. *IEEE - JSTSP, 14*(2), 272-281.

de la Fuente Garcia, S., Ritchie, C. W., & Luz, S. (2019). Protocol for a conversation-based analysis study: PREVENT-ED investigates dialogue features that may help predict dementia onset in later life. *BMJ open, 9*(3), e026254.

Luz, S., **de la Fuente Garcia, S.**, & Albert, P. (2018). A method for analysis of patient speech in dialogue for dementia detection. In *LREC (RaPID)* (pp. 35-42) ELRA.

COMMUNICATIONS

Prevent General Assembly

Investigating the potential of speech features for monitoring cognitive health in dementia

Online event

September 2020

Scottish Research Dementia Consortium

Prevent-ED: investigating dialogue features to prevent dementia

Glasgow, UK

April 2019

International Neuropsychological Society Meeting

Natural Language Processing for Cognitive Status Prediction

Prague, Czech Republic

July 2018

10th Dubrovnik Conference on Cognitive Science

Evaluating cognition through linguistic features

Dubrovnik, Croatia

May 2018

2nd Human Brain Project Student Conference

Detecting Cognitive Decline through Dialogue Processing

Ljubljana, Slovenia

Feb 2018

