Sofia de la Fuente Garcia, PhD, GMBPsS

Research Fellow, University of Edinburgh
Psychologist, Psychology in Edinburgh
Member of the British Psychological Society
Fellow of the Higher Education Academy

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EDUCATION

- **PhD Precision Medicine: speech markers and ML for cognitive health** — Sept 2016 - Sept 2020
  Usher Institute, Edinburgh Medical School — *The University of Edinburgh, UK*

- **MSc Methodology for Behavioural and Health Sciences** — Sept 2015 - June 2017
  Average grade: 9.21/10. 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

- **Diploma Family and Systems Psychotherapy** — Jan 2021 - Dec 2022
  Basque Institute for Systemic and Family Psychotherapy — *Online learning*

- **Gestalt Psychotherapy Training: foundation year** — Oct 2018 - July 2019
  Edinburgh Gestalt Institute — *Edinburgh, UK*

RELEVANT EXPERIENCE

- **Research Fellow in in Medical Informatics** — Oct 2024 - ongoing
  Centre for Medical Informatics, Usher Institute — *The University of Edinburgh*

- **Wellbeing Expert Advisor for the EPHA** — Oct 2024 - ongoing
  European Public Healt Alliance — *EPHA*

- **Lecturer in Clinical Psychology** — Jan 2022 - June 2024
  School of Health in Social Science — *The University of Edinburgh*

- **Psychologist** — May 2023 - ongoing
  Psychology in Edinburgh / Psicologia en Edimburgo

- **Post-graduate Research Admissions: panel member** — March 2022 - June 2024
  Clinical Psychology — *The University of Edinburgh*

- **Research Ethics Committee (Mental Health): panel member** — March 2022 - June 2024
  Clinical Psychology — *The University of Edinburgh*

- **Post-doctoral Research Fellow** — June 2020 - Jan 2022
  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 - intermittent
  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*

Projects

- **INT-ACT: EU Horizon project**: Intangible Cultural Heritage: Bridging the Past, Present and Future.
- **Moral foundations**: research study on the association(s) between adult attachment, personality and moral reasoning.
- **PsyVoiD**: research study on the psychological consequences of COVID-19 and their association with voice features.
- **Corpus Curiosum Ambassador in the UK**: Outreach project to organise lecture series and debates in Neuroscience.
- **Collaboration with PST Inc.**: to translate and adapt original PhD method for research and development in Japan.
- **Collaboration with Hospital Clinico San Carlos**: same as above, in Spain, currently in a study on aphasia.

Teaching, Outreach and Widening Participation Experience

MSc Teaching Assistant: Data Science for Health and Social Care   Sept 2021 - January 2022
Edinburgh Medical School: online learning   *The University of Edinburgh, UK*

MBChB SSC-Y2 Project supervisor   Oct 2021 - January 2022
Edinburgh Medical School   *The University of Edinburgh, UK*

MBChB Teaching Assistant: Research and Evidence-Based Medicine   Sept 2021 - January 2022
Edinburgh Medical School   *The University of Edinburgh, UK*

Honours Project supervisor on MSc Biomedical Sciences   Nov 2020 - May 2021
Edinburgh Medical School   *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 on MSc Public Health   Feb 2018 - Nov 2018
Edinburgh Medical School   *The University of Edinburgh, UK*

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

Training

SPARK and IGNITION Programs   June 2022
Spin-Up Science: research leadership, innovation and business development   *The University of Edinburgh*

An Edinburgh Model for Online Teaching
Online training   *The University of Edinburgh*

Equality and Diversity   June 2021
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*

Awards

- **Fellow of the Higher Education Academy** — ongoing
  Edinburgh Teaching Award — *The University of Edinburgh, UK*
- **Transitional Fellowship Award** — June 2020 - June 2021
  Usher Institute — *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*

Publications

Lincoln, J., Tip, L., **de la Fuente Garcia, S.** (2024). Attachment-related anxiety and social anxiety: the mediating role of self-esteem. medRxiv, 2024-05. doi.org/10.1101/2024.05.28.24308030

Deng, Q., Luz, S., **de la Fuente Garcia, S.** (2024). A Frame-based Attention Interpretation Method for Relevant Acoustic Feature Extraction in Long Speech Depression Detection. arXiv preprint arXiv:2406.03138.

Luz, S., Haider, F., **de la Fuente Garcia, S.**, Fromm, D., MacWhinney, B. (2021) Detecting Cognitive Decline Using Speech Only: The ADReSSo Challenge. Proc. Interspeech 2021, 3780-3784

Luz, S., Haider, F., **de la Fuente Garcia, S.**, Fromm, D., MacWhinney, B. (2021). Editorial: Alzheimer's Dementia Recognition through Spontaneous Speech *Frontiers collection Psychology, Age Neurosci, Comp Sci*

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.*

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.