

Sabela Fondevila, *Curriculum Vitae*

Personal Data

Sabela Fondevila Estévez
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Academic Degrees

2010-2013: PhD in Neuroscience with Cum Laude, grade of European Doctor.
Complutense University, Madrid, Spain.
2008-2010: Certificate of Advanced Studies in Neurobiology of Language (equivalent to M.Sc. degree). Complutense University, Madrid, Spain.
2006-2007: Teaching Aptitude Certificate, Complutense University, Madrid, Spain.
2003-2006: Master in Psychotherapy, Centre for Psychodrama Studies Madrid, Spain.
1999-2005: Undergraduate degree in Psychology, Autónoma University, Madrid, Spain.

Appointments

Since 2014- Posdoctoral fellow, Center for Human Evolution and Behavior, Madrid, Spain.
2012-2013: Researcher, Ancestors Foundation, Madrid, Spain.
2008-2012: PhD student, Dept. Psychobiology UCM & Center for Human Evolution and Behavior, Madrid, Spain.
2005-2007: Research Assistant, Institute of Amazonian Applied Ethnopsychology, Brazil.

Professional Experience

2007-2008: Psychologist for training in communication skills. RENFE, Madrid, Spain.
2007-2008: Psychologist for training in psychopharmacology of drugs. CAM, Madrid, Spain.
2006-2007: Psychologist, Research Centre for Addiction Treatment, Barcelona, Spain.

Honours & Awards

2011-2015: Honorary Collaborator of Dept. Psychobiology, Complutense University, Madrid, Spain.
2013: Research fellowship, Ancestors Foundation, Madrid, Spain.
2013: Grant for research project manager, Ancestors Foundation, Madrid, Spain.
2012: Spanish Dept. of Science and Innovation travel grant to visit CFIN, Center for functionally Integrative Neuroscience, Aarhus, Denmark.
2011: Spanish Dept. of Science and Innovation travel grant to visit the Dept. Psychology, Victoria University, Wellington, New Zealand.
2010: Spanish Dept. of Science and Innovation travel grant to visit the Institute of Psychology, Humboldt University, Berlin, Germany.
2010: Scholarship for Summer School Neuroaesthetics, Complutense University, Madrid, Spain.
2008-2012: FPI fellowship in Cognitive Neuroscience, Spanish Dept. of Science and Innovation. (BES-2008-008712).

Participation in funded projects

- 2015-2017: *Influence of facial information in language comprehension: A study with event-related brain potentials on syntax and semantics*. Spanish Dept. of Economy and Competitiveness. (PSI2013-43107-P). PI: Manuel Martín-Loeches Garrido.
- 2011-2013: *Exploring the neural and cognitive basis of religious thought*. Spanish Dept. of Science and Innovation. (PSI 2010-19619). PI: Manuel Martín-Loeches Garrido.
- 2010- to date: *Consolidation of Research Groups*. Complutense University, Madrid & Banco Santander (CCG08-UCM/SAL-3594). PI: Juan Luis Arsuaga Ferreras & Manuel Martín-Loeches Garrido.
- 2008-2010: *Study of the interaction between language and emotion in the human brain*. Spanish Dept. of Science and Innovation. (SEJ2007- 60485/PSIC). PI: Manuel Martín-Loeches Garrido.
- 2006-2009: *Assessment of the memory function and reward processing through functional magnetic resonance in chronic users of hallucinogenic substances. A comparative study between chronic users of cannabis and non-drug using population*. National Plan on Drugs (PNS). (2006/074). PI: Jordi Riba Serrano.

Publications

Peer-reviewed articles

- In preparation- **Fondevila, S.**, Schjodt, U., Martín-Loeches, M. Effects of authority on attention and perception.
- In preparation- **Fondevila, S.**, Valle, M., Riba, M. Ayahuasca modulates electrocortical response to emotional pictures.
- In preparation- Sel, A., **Fondevila, S.**, Casado, P., Jiménez-Ortega, L. The influence of mood on language processing: Domain specific evidence from event-related potentials in sentence comprehension.
- In preparation- Martín-Loeches, M., Hernández-Gutiérrez, D., Jiménez-Ortega, L., **Fondevila, S.**, Casado, P. Discourse modulations of syntactic processing: An event-related brain potentials study.
- Accepted -**Fondevila, S.**, Aristei, S., Sommer, W., Jiménez-Ortega, L., Casado, P., Martín-Loeches, M. Counterintuitive Religious Ideas and Metaphoric thinking: An event-related brain potentials study. *Cognitive Science*.
- 2014- Jiménez-Ortega, L., García-Milla, M., **Fondevila, S.**, Casado, P., Hernández-Gutiérrez, D., Martín-Loeches, M. Automaticity of higher cognitive functions: Neurophysiological evidence or unconscious syntactic processing of masked words. *Biological Psychology*, 103:83-91.
- 2013- **Fondevila, S.** and Martín-Loeches, M. Cognitive mechanisms for the evolution of religious thought. *Annals of the New York Academy of Sciences*, 1299: 84–90.
- 2013- Bulbulia, J, Xygalatas, D, Schjoedt, U, **Fondevila, S**, Sibley, CG & Konvalinka, I., 'Images from a jointly-arousing collective ritual reveal affective polarization' *Frontiers in Psychology*, vol 4, 960.

- 2012- **Fondevila, S.**, Martín-Loeches, M., Jiménez-Ortega, L., Casado, P., Sel, A., Fernández, A., Sommer, W. The sacred and the absurd: An event-related potentials study (at sentence level). *Social Neuroscience*, 7(5), 445-457.
- 2012- Bouso, J.C., González, D., **Fondevila, S.**, Cutchet, M., Fernández, X., Ribeiro-Barbosa, P.C., Alcázar-Córcoles, M.A., Araujo, W.S., Barbanoj, M.J., Fábregas, J.M., Riba, J. Personality, psychopathology, life attitudes and neuropsychological performance among ritual users of Ayahuasca: a longitudinal study. *PLoSOne*, 7(8): e42421.
- 2012- Martín-Loeches, M., Fernández-Hernández, A., Schacht, A., Sommer, W., Casado, P., Jiménez-Ortega, L., **Fondevila S.** The influence of emotional words on sentence processing: electrophysiological and behavioral evidence. *Neuropsychologia*, 50(14), 3262-72.
- 2012- Jiménez-Ortega, L., Martín-Loeches, M., Casado, P., Sel, A., **Fondevila, S.**, de Tejada, P.H., Schacht, A., Sommer W. How the emotional content of discourse affects language comprehension. *PLoSOne*, 7(3): e33718.
- 2010- Fábregas, J.M., González, D., **Fondevila, S.**, Cutchet, M., Fernández, X., Ribeiro-Barbosa, P.C., Alcázar-Córcoles, M.A., Barbanoj, M.J., J.M., Riba, J., Bouso, J.C. Assessment of addiction severity among ritual users of ayahuasca. *Drug and Alcohol Dependence*, 111(3):257-61.

Book Chapters

- 2014- Fernández, X., Guimarães dos Santos, R., Fábregas, J.M., Cutchet, M., **Fondevila., S.**, González, D., Riba, J., Bouso, J.C. Psychotherapeutic Assessment of the Effects of Ritual Ayahuasca Use on Drug Dependency: A Pilot Study, Caiuby Labate, B. & Cavnar, C. (Eds) in *The Therapeutic Use of Ayahuasca* (pp 183-196). Springer.
- 2013- Bouso, J.C., Fábregas, J.M., **Fondevila., S.**, González, D., Cutchet, M., Fernández, X., Alcázar-Córcoles, M.A., Gómez-Jarabo, G. Efectos a largo plazo del consumo ritual de ayahuasca, Caiuby Labate, B. & Bouso, J.C. (Eds) in *Ayahuasca y Salud* (pp 86-97). La liebre de marzo.
- 2011- Bouso, J.C., Fábregas, J.M., González, D., **Fondevila., S.**, Fernández, X., Cutchet, M., Alcázar-Córcoles. Long-term effects of the ritual use of ayahuasca on mental health. Caiuby Labate, B. & Jungaberle H. (Eds) in *The Internationalization of Ayahuasca* (pp 167-184). Lit Verlag.

International Conferences & Workshops

Conference talks

- 2012- **Fondevila, S.** Cognitive mechanisms for the evolution of religious thought. Presentation at B-DEBATE, *Neuroethics: from lab to law. A scientific scrutiny of sociability, responsibility and criminality*, Barcelona, Spain.
- 2012- **Fondevila, S.** An ERP study of counterintuitive religious ideas. Presentation at the Annual Meeting IACSR, *International Association for the Cognitive Science of Religion*, Aarhus, Denmark.
- 2012- **Fondevila, S.** Metaphors on counterintuitive religious ideas. Presentation at the

Conference *Biological and Cultural Evolution and Their Interactions: Rethinking the Darwinian and Durkheimian Legacy in the Context of the Study of Religion*, Aarhus, Denmark.

- 2011- **Fondevila, S.** Symposium. Context modulations of neurocognitive processes evoked by counterintuitive meanings. Presentation: Contextualizing religious counterintuitive ideas: an ERP approach at ESCOP, *The European Society of Cognitive Psychology*, San Sebastián, Spain.

Poster presentations

- 2013- **Fondevila, S.**, Aristei, S., Sommer, W., Jiménez-Ortega, L., Casado, P., Martín-Loeches, M. Are religious ideas special because they are seen as metaphors? An event-related potentials study. Poster presented at *20th Annual Meeting of the Cognitive Neuroscience Society*, San Francisco, CA.
- 2013- Hernández-Gutiérrez, D., Martín-Loeches, M., Jiménez-Ortega, L., **Fondevila, S.**, Casado, P. Discourse modulations of syntactic processing: An event-related brain potentials study. Poster presented at *CNS, 20th Annual Meeting of the Cognitive Neuroscience Society*, San Francisco, CA.
- 2013- Casado, P., Martín-Loeches, M., De vega, M., León, I., Jiménez-Ortega, L., **Fondevila, S.**, Hernández-Gutiérrez, D. Language recursion overlaps with motor recursion: Brain potentials evidence of embodied sentence processing. Poster presented at *CNS, 20th Meeting of the Cognitive Neuroscience Society Annual Meeting*, San Francisco, CA.
- 2013- Jiménez-Ortega, L., García-Milla, M., **Fondevila, S.**, Casado, P., Hernández-Gutiérrez, D., Martín-Loeches, M. Automaticity of higher cognitive functions: Neurophysiological evidence of unconscious syntactic processing of masked words. Poster presented at *CNS, 20th Meeting of the Cognitive Neuroscience Society Annual Meeting*, San Francisco, CA.
- 2011- Fernández-Hernández, A., Martín-Loeches, M., Casado, P., Jiménez-Ortega, L., **Fondevila S.** Emotional content of words in sentences modulates syntactic processing. Poster presented at *ESCOP, The European Society of Cognitive Psychology*, San Sebastián, Spain
- 2010- **Fondevila, S.**, Martín-Loeches, M., Jiménez-Ortega, J., Casado, P., Sel, A., Fernández-Hernández, A., Sommer, W. Semantic Processing of counterintuitive religious ideas in the human brain. Poster presented at *HBM, Human Brain Mapping*, Barcelona, Spain.
- 2010- Jiménez-Ortega, L., Martín-Loeches, M., Casado, P., Sel, A., **Fondevila, S.** Semantic discourse emotional content affects language comprehension. Poster presented at *HBM, Human Brain Mapping*. Barcelona, Spain.
- 2010- Sel, A., Martín-Loeches, M., Casado, P., **S. Fondevila**, Jiménez-Ortega, L., Fernández-Hernández, A. Semantic comprehension is not affected by the emotional content of background music. Poster presented at *HBM, Human Brain Mapping*. Barcelona, Spain.
- 2009- Casado, P., Martín-Loeches, M., Sel, A., Jiménez-Ortega, L., **Fondevila, S.** Effects of emotions in the processing of sentences. Poster presented at *Workshop on the advances in the study of brain activity*, Barcelona, Spain.

- 2007- Bouso, J.C., **Fondevila, S.**, González, D. MDMA treatment for Post Traumatic Stress Disorder. Poster presented at the *First National Congress of the Spanish Society of Social Psychiatry and Psychopathology*, Santa Cruz de Tenerife, Spain.
- 2006- **Fondevila, S.**, González, D. Syncretic rituals in the Amazon basin. Presentation at the *Conference on Latin American indigenous cultures*. Autónoma University, Madrid, Spain.
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Research stays abroad

- 2013: Faculty of Psychology, Aarhus University, Denmark. Duration: 7 days.
- 2013: LEVYNA, Center for the Experimental Study of Religion, Brno, Czech Republic. Duration: 7 days.
- 2012: CFIN, Center of Functionally Integrative Neuroscience, Aarhus, Denmark. Duration: 3 months.
- 2011: Faculty of Psychology, Victoria University of Wellington, New Zealand. Duration: 3 months.
- 2010: Institute for Psychology, Humboldt University Berlin, Germany. Duration: 3 months.
- 2005: Institute of Amazonian Applied Ethnopsychology, Brazil. Duration: 1 year, 7 months.
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Teaching, lectures & Invited talks

Teaching

- 2010-2014: Assistant, *Psychobiology Fundamentals*. Dept. Psychobiology, Complutense University, Madrid, Spain (9 ECTS credits).
- 2008-2009: Assistant, *Communication and Psychology*, Dept. Psychobiology, Complutense University, Madrid, Spain (2 credits).

Lectures

- 2012: Neuroimaging Techniques: Basic Research in Cognitive Neuroscience, Leganés Hospital, Dept. Psychiatry, Madrid, Spain.
- 2011: A scientific approach to religious phenomena. Dept. Religious Studies, Victoria University, Wellington, New Zealand.
- 2010: The Cognitive Science of religion: evidences and challenges. Dept. Psychobiology, Humboldt University Berlin, Germany.

Talks

- 2014: Neuroscience and Justice. Institute of health Carlos III, The week o Science, Madrid, Spain.
- 2013: Social Neuroscience. Institute of health Carlos III, The week o Science, Madrid, Spain.
- 2012: Electroencephalography and the study of religion. LEVYNA, Laboratory for the Experimental Research of Religion, Brno, Czech Republic.
- 2012: Religious thought in the brain: Evidences from ERPs. CFIN, Center for functionally Integrative Neuroscience, Aarhus, Denmark.
- 2012: Religion and analgesia, can faith reduce pain? Institute of health Carlos III, The week o Science, Madrid, Spain.

- 2011: Mystical experiences and epilepsy. Institute of health Carlos III, The week of Science, Madrid, Spain.
- 2011: The sacred in the brain. School of Psychology, Victoria University, Wellington, New Zealand.
- 2010: Why we like religion? Institute for Psychology, Humboldt University, Berlin, Germany.
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Organization of R+D activities

- 2012: Summer School *The Social Brain*, Institute of Health Carlos III & Pascual Foundation. Scientific and Organizing Committee.
- 2012: *Conferences in Cognitive Neuroscience*, Institute of Health Carlos III & Pascual Foundation. Scientific and Organizing Committee.
- 2011: Summer School *Cognitive Neuroscience and Creativity*, Institute of Health Carlos III & Pascual Foundation. Scientific and Organizing Committee.
- 2011- Conferences in Cognitive Neuroscience. , Institute of Health Carlos III & Pascual Foundation. Scientific and Organizing Committee.
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Courses

- 2010: Neuroaesthetics, Complutense University, Madrid, Spain.
- 2009: Analysis of variance and factorial designs in medical research, Complutense University, Madrid, Spain.
- 2009: Functional Neuroimaging, Complutense University, Madrid, Spain.
- 2007: Methodology and Writing for scientific research. Dept. of Methodology, Autónoma University, Madrid.