



CURRICULUM VITAE (CVA)

IMPORTANT – The Curriculum Vitae cannot exceed 4 pages. Instructions to fill this document are available in the website.

Part A. PERSONAL INFORMATION

CV date 28/10/2022

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|--|-----------------|---|--|
| First name | Laura | | |
| Family name | Jiménez Ortega | | |
| Gender (*) | female | Birth date (dd/mm/yyyy) | |
| Social Security, Passport, ID number | XXXXXXXXXX | | |
| e-mail | laurajim@ucm.es | URL Web: | |
| Open Researcher and Contributor ID (ORCID) (*) | | https://orcid.org/0000-0001-8002-5563 | |

(*) Mandatory

A.1. Current position

| | | | |
|-------------------|---|----------------|--------------|
| Position | Associate Professor /tenure (Profesor titular de Universidad) | | |
| Initial date | 2022 | | |
| Institution | Complutense University of Madrid | | |
| Department/Center | Psicobiology | | |
| Country | Spain | Teleph. number | +34650222809 |
| Key words | Psychobiology, Neuroscience, Cognition, Language | | |

A.2. Previous positions (research activity interruptions, art. 14.2.b)

| Period | Position/Institution/Country/Interruption cause |
|------------------------|--|
| Sept 2001-Sept 2005 | Predocctoral researcher. Psychology Department. International Graduate School of Neuroscience. Ruhr-Universität-Bochum |
| Sept 2005-January 2006 | Post-doctoral researcher. Psychology Department. Ruhr-Universität-Bochum |
| 2006-2015 | Assistant professor. Complutense University of Madrid |
| 2016-2022 | Associate Professor (Professor Contratado Doctor. UCM) |
| 2022-onwards | Associate Professor (Profesor Titular de Universidad, UCM) |

A.3. Education

| PhD, Licensed, Graduate | University/Country | Year |
|-------------------------|--|------|
| Licensed In Psychology | Complutense University of Madrid (Spain) | 2000 |
| Phd in Neuroscience | Rurh-Universität-Bochum | 2005 |

Part B. CV SUMMARY (max. 5000 characters, including spaces)

Graduated in Psychology in 2000 at the Complutense University of Madrid, and Doctor in Neuroscience by the “International Graduate School of Neuroscience” of the “Ruhr-Universität-Bochum” (Germany) in 2005. This School of Neuroscience is among the most prestigious ones in Germany and a partner of Marie Curie actions. In this context, I received funding as a principal investigator to carry out a research project on visual perception in birds. Previously, I received a scholarship for a research visit in the Psychology department of the University College of London. Currently, I am Associate Professor at the Psychobiology & Methodology in Behav. Sciences Department (Complutense University of Madrid) and co-principal investigator at the UCM-ISCI Centre for Human Evolution and Behavior.

My main areas of research during the last two decades are perception (visual, pain, and subliminal language perception), cognitive processes (language comprehension, emotions, and social presence), and psychological



factors affecting health). As a result, almost forty scientific articles have been published (80% of them in Q1-Q2 journals). Within my main contributions are investigating avian visual and cognitive capabilities (which have applications in animal training and welfare) and how depth is perceived in birds with monocular vision, a model that later inspired the development of tridimensional images by means of just one camera instead of two. The research regarding emotions and social presence modulations on syntactic and semantics processing contributed to current models of language comprehension. This line of research can be applied to various personal or professional fields where communication is highly relevant (education, advertising, health, or politics, among others). Recently, in a more recent field of research, we have observed evidence supporting the important role of psychological factors (such as emotions, anxiety, depression, personality, and coping) on chronic pain illnesses (migraine, temporomandibular disorders, burning mouth syndrome) and oral health (bruxism). Nowadays, this approach is starting to be fruitful, although just a few articles have been already published, several articles are being right now written or submitted. Furthermore, a novel approach integrating perception, cognitive processing, and oral health fields, revealed that the way instructions/explanations are given by the clinician significantly affects pain perception. This field is providing both clinical evidence about the importance of psychological factors and communication on health and valuable hints for prevention which are being already successfully applied in the Faculty of Dentistry clinics (Temporomandibular section, Complutense University of Madrid) and taught to the future clinical professionals.

Beyond the scientific, health, and academic contributions, divulgation of basic research meeting social needs is a priority to me. To this aim, I collaborate as much as possible in radio broadcasting, newspapers, news agencies, and in several actions to divulge science, such as public conferences, summer schools, and workshops. Furthermore, beyond the degree lectures, I teach in various masters (ethology, dentistry, and neuroscience) which seek to train valuable professionals bringing benefit to society.

Part C. RELEVANT MERITS (sorted by typology)

C.1. Publications (10 best contributions in the last 10 years)

1. **Jiménez-Ortega, L.**, Martin-Loeches, M., Casado, P., Sel, A., Fondevila, S., de Tejada, P. H., Sommer, W. (2012). How the emotional content of discourse affects language comprehension [Research Support, Non-U.S. Gov't]. *PLoS One*, 7(3), e33718. [IF=4.41; Q1] <https://doi.org/10.1371/journal.pone.0033718>
2. **Jiménez-Ortega, L.**, Garcia-Milla, M., Fondevila, S., Casado, P., Hernandez-Gutierrez, D., & Martin-Loeches, M. (2014). Automaticity of higher cognitive functions: neurophysiological evidence for unconscious syntactic processing of masked words. *Biol Psychol*, 103, 83-91. <https://doi.org/10.1016/j.biopsycho.2014.08.011> [IF=3.25; Q1]
3. **Jiménez-Ortega, L.**, Espuny, J., de Tejada, P. H., Vargas-Rivero, C., & Martín-Loeches, M. (2017). Subliminal Emotional Words Impact Syntactic Processing: Evidence from Performance and Event-Related Brain Potentials [Original Research]. *Frontiers in Human Neuroscience*, 11(192). [IF=3.63; Q1]
4. Soto-Goni, X. A., Alen, F., Buiza-Gonzalez, L., Marcolino-Cruz, D., Sanchez-Sanchez, T., Ardizzone-Garcia, I., . . . **Jimenez-Ortega, L.***. (2020). Adaptive Stress Coping in Awake Bruxism. *Front Neurol*, 11, 564431. * **Corresponding author** [IF=4.03; Q1] <https://doi.org/10.3389/fneur.2020.564431>
5. **Jiménez-Ortega, L.**, Badaya, E., Hernandez-Gutierrez, D., Silvera, M., Espuny, J., Garcia, J. S., . . . Martin-Loeches, M. (2020). Effects of reader's facial expression on syntactic processing: A brain potential study. *Brain Res*, 1736, 146745. [IF=3.25; Q2] <https://doi.org/10.1016/j.brainres.2020.146745>
6. Hinchcliffe*, C., **Jiménez-Ortega, L.***, Munoz, F., Hernandez-Gutierrez, D., Casado, P., Sanchez-Garcia, J., & Martin-Loeches, M. (2020). Language comprehension in the social brain: Electrophysiological brain signals of social presence effects during syntactic and semantic sentence processing. *Cortex*, 130, 413-425. ***Equal contributions and corresponding author** [IF=4.27; Q1] <https://doi.org/10.1080/23273798.2021.1970201>
7. Sánchez-García, J.; Rodríguez, G.E.; Hernández-Gutiérrez, D.; Casado, P.; Fondevila, S.; **Jiménez-Ortega, L.**; Muñoz, F.; Rubianes, M.; Martín-Loeches, M. (2021) Neural dynamics of pride and shame in social context: An approach with Event-Related brain electrical Potentials. *Brain Structure & Function*, 226: 1855-1869. [IF=5.61; Q1] <https://doi.org/10.1007/s00429-021-02296-7>
8. **Jiménez-Ortega, L.***, Hinchcliffe*, C., Munoz, F., Hernandez-Gutierrez, D., Casado, P., Sanchez-Garcia, J., & Martin-Loeches, M. (2021). Language comprehension may depend on who you are: how personality traits and social presence seemingly modulate syntactic processing. *Language, Cognition and Neuroscience*. ***Equal contributions and corresponding author** [IF=1.13; Q1] <https://doi.org/10.1080/23273798.2021.1970201>



9. **Jiménez-Ortega, L.**, Badaya, E., Casado, P., Fondevila, S., Hernandez-Gutierrez, D., Munoz, F. Martin-Loeches, M. (2021). The Automatic but Flexible and Content-Dependent Nature of Syntax. *Front Hum Neurosci*, 15, 651158. [IF=3.2; Q1] <https://doi.org/10.3389/fnhum.2021.651158>
1. **Jiménez-Ortega, L.**, Hinchcliffe, C., Munoz, F., Hernandez-Gutierrez, D., Casado, P., Sanchez-Garcia, J., & Martin-Loeches, M. (2022). Language comprehension may depend on who you are: how personality traits and social presence seemingly modulate syntactic processing. *Language, Cognition and Neuroscience*. [IF=2.55; Q1] <https://doi.org/10.1080/23273798.2021.1970201>

C.2. Congress (10 best contributions in the last 10 years)

1. **Jiménez-Ortega, Laura**, Casado-Palacios, María; Rubianes, Miguel; Martínez-Mejías, Mario; Fondevila, Sabela; Sánchez-García, Jose; Muñoz, Francisco; Casado, Pilar; Martín-Loeches, Manuel.
Comprehension is enhanced when the speaker's pupils are larger: pupil size and gaze direction effects on spoken language comprehension. **Ponencia**. ESCAN 2022 Conference Viena, Austria. Libro de abstracts. Viena. Fecha: 19-22 Julio 2022.
2. **Jiménez-Ortega L**, García-Milla M, Fondevila S, Casado P, Hernández-Gutiérrez D, Martín-Loeches M. Automaticity of higher cognitive functions: Neurophysiological evidence for unconscious syntactic processing of masked words. 20th Annual Meeting of the Cognitive Neuroscience Society, San Francisco, California, USA, 13-16 de abril de 2013. Póster.
3. **Jiménez Ortega, L.**; Espuny, J.; Herreros de Tejada, P.; Vargas-Rivero, C.; Martin-Loeches, M. Unconscious emotional effects on syntactic processing during sentence comprehension: An ERP study. 19th Conference of the European Society for Cognitive Psychology. Paphos, 17-20 Sept 2015. Oral Presentation.
4. Espuny J, **Jiménez-Ortega L**, Casado P, Muñoz-Muñoz F, Fondevila S, Hernández- Gutiérrez D, Martín-Loeches M. Arousal and valence of emotional effects on the processing of words. 23rd Annual Meeting of the Organization for Human Brain Mapping. Vancouver, Canada, 25-29 de junio de 2017. Póster.
5. **Jiménez-Ortega L**, Ramos Badaya E, Espuny J, Silvera M, Hernández-Gutiérrez D, Fondevila S, Muñoz-Muñoz F, Casado P, Martín-Loeches M. Embodied emotions interact with syntax. 23rd Annual Meeting of the Organization for Human Brain Mapping. Vancouver, Canada, 25-29 de junio de 2017. Póster.
6. Casado P, Martín-Loeches M, Muñoz M, Hernández-Gutiérrez D, **Jiménez-Ortega L**, Sánchez-García D, Espuny J, Fondevila S. On the interplay between motor sequencing and linguistic syntax: electrophysiological evidence. 21th Conference of the European Society for Cognitive Psychology. Tenerife, España, 25-28 septiembre 2019. Oral presentation
7. **Jiménez-Ortega L**, Hinchcliffe C, Sánchez-García J, Hernández-Gutiérrez D, Espuny J, Fondevila S, Muñoz Muñoz F, Casado P, Martín-Loeches M. Language comprehension in the social brain: Electrophysiological brain signals of social presence effects during syntactic and semantic sentence processing. 21th Conference of the European Society for Cognitive Psychology. Tenerife, España, 25-28 septiembre 2019. Póster.
8. **Jiménez-Ortega L**, Ramos-Badaya E, Casado P, Fondevila S, Hernández-Gutiérrez D, Muñoz Muñoz F, Sánchez-García J, Martín-Loeches M. The nature of syntax: automatic and context dependent. The 5th Conference of the European Society for Cognitive and Affective Neuroscience. Budapest, Hungría, 23-26 de junio 2021. Póster.
9. Sánchez-García J, Rodríguez GE, Hernández-Gutiérrez D, Casado P, **Jiménez-Ortega L**, Fondevila S, Muñoz F, Rubianes M, Martín-Loeches, M. Pride and Shame in social context: A neurofunctional dynamic approach through Event-Related brain potentials. The 5th Conference of the European Society for Cognitive and Affective Neuroscience. Budapest, Hungría, 23-26 de junio 2021. Póster.
10. **Jiménez-Ortega L**, Hinchcliffe C, Muñoz F, Hernández-Gutiérrez D, Casado P, Sánchez-García J, Martín-Loeches M. Personality traits and social presence modulations of syntactic processing. The 5th Conference of the European Society for Cognitive and Affective Neuroscience. Budapest, Hungría, 23-26 de junio 2021. Póster.

C.3. Research projects (last 10 years)

- “*Exploración de los fundamentos neurales y cognitivos del pensamiento religioso*”. Ayudas a proyectos de investigación del MCINN. Ref. PSI2010-19619. Starting 2011. Extension: 3 years. Amount obtained: 48.400,00 €. **Full time member of the research team.**



- “*An Integrative Approach to the Neurocognitive Mechanisms of Language Processing*”. Acciones Conjuntas Hispano-Alemanas del MEC y de la DAAD alemana. Ref. 57049661-. Starting 2014. Extension: 2 years. Amount obtained: 14.000,00 €. **Member of the research team.**
- “*Influencia de la información facial en la comprensión del lenguaje: estudio con potenciales cerebrales evento-relacionados sobre sintaxis y semántica*” Dirección General de Investigación Científica y Técnica del MINECO. Ref. PSI2013-43107-P. Starting 2013. Extension: 4 years. Amount obtained: 48.400,00 €. **Full time member of the research team**
- “*El origen social del lenguaje humano: La mirada y el tamaño pupilar del hablante como moduladores de la comprensión semántica y sintáctica del lenguaje*”. Dirección General de Investigación Científica y Técnica del MINECO. Ref. PSI2017-82357-P. Starting 2018. Extension: 5 years. Amount obtained: 54.000,00 €. **Principal Investigator: Laura Jiménez Ortega** and Manuel Martín-Loeches).
- “*Creación y consolidación de grupos.*” Banco Central Hispano-UCM. Ref. GR58/10. Starting 2011. Extension: until now. Amount; between 4000 and 5000 euros every two years. **Member of the research team.**
- “*Solo o acompañado: la influencia de la presencia social en la comprensión del lenguaje en función de la distancia y el tipo de interacción.*” Subprograma Estatal de Generación del Conocimiento, Programa Estatal de Fomento de la Investigación Científica y Técnica de Excelencia, en el marco del Plan Estatal de Investigación Científica y Técnica y de Innovación 2017-2020. Ref. PID2021-124227NB-I00. Extension 4 years. **Principal investigators: Laura Jiménez Ortega** and Pilar Casado Martínez.

C.4. Contracts, technological or transfer merits

Formative and scientific adviser and collaborator at AT formación and Fauna y Acción companies