

Abridged Curriculum Vitae

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Website with works:	https://juigmend.github.io/
Software:	https://github.com/juigmend?tab=repositories
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Summary of skills

Professional and technical skills:

- Research.
- Scientific writing.
- Data analysis, statistics, machine learning, and signal processing.
- Project management.
- Fundraising and grant writing.
- Teaching and mentoring.
- Music composition, arrangements, and orchestration.
- Sound recording in studio and field, multichannel sound spatialisation.
- Motion analysis, motion capture, accelerometry, video tracking, infrared marker-based optical mocap.
- Music information retrieval.
- Design of user interfaces, audio synthesis, networking (e.g., UDP, OSC).

Experience with software programming and end-user tools:

- Python, Matlab, Octave, Pure Data, Max, SQL, HTML+CSS+JS+Flask.
- Protools, Digital Performer, Ableton Live, Audacity, Cubase, Sibelius, Finale.
- MS Office, LaTeX and other word processing, typesetting and related software.

Languages:

- Spanish (native), English (C1), French (A2), Finnish (A2)

Higher education

Doctor of Philosophy:	2023 - University of Jyväskylä - Musicology
Master of Arts:	2014 - University of Jyväskylä - Music, Mind and Technology
Professional Certificate:	2005 - Instituto Escuela Moderna - Music Composition and Arrangements

Summary of work experience

25/3/2024 to 31/5/2024: Programmer of signal processing and machine learning software for Tabula Rasa project (https://www.parasense.fi/), Finland.
29/9/2014 to 31/12/2023: Researcher at the University of Jyväskylä, Finland.
11/1/2021 to 10/6/2022: Teacher of Music Technology at the University of Jyväskylä, Finland.
2014: Researcher for Music Cognition research project.
2013 to 2014: Fund-raiser and manager for project "Educación de la Voz y Dirección Coral In Situ para Directores de Coros" (Project for promotion of choirs in Chile).
10/2013 to 11/2013: Research assistant at the University of Jyväskylä.
2012 to 2013: Fund-raiser and manager for project "Formación en Competencias Para la Actividad Coral" (Project for promotion of choirs in Chile).
4/2013 to 6/2013: Research assistant at the University of Jyväskylä.
9/1/2012 to 13/1/2012: Lecturer of short course "Taller Música para Medios Audiovisuales" (Workshop Music for Audiovisual Media) at Universidad Austral de Chile UACH (university in Valdivia, Chile).
2011: Lecturer of Counterpoint, Harmony and Composition for "Pedagogía en Artes, Mención Música" (pedagogy of music education) at Universidad de Los Lagos (university in Puerto Montt, Chile).
2011 to 2012: Copyist and librarian for "Orquesta de Los Rios" (chamber orchestra in Valdivia, Chile).
18/10/2010 to 15/6/2011: Project manager and teacher for the course "Capacitación en Artes Musicales para Profesionales de la Educación de la Región de Los Rios" (Project for promotion of choirs in Chile)

2009 to 2012: Music teacher at elementary and secondary schools in Chile.
2008 to 2012: Composer, project manager and administrator. Off-shore service for "The Composer Collective" (film scoring business based in Los Angeles, California). https://www.imdb.com/name/nm3255768/
2007 to 2008: Salesperson at musical instruments store "Audiomusica" in Santiago, Chile.
2006 to 2007: Translator English-Spanish of TV scripts at "Doblajes Internacionales", Santiago, Chile.
2003 to 2012: Private teacher of music composition and music technology in Chile.
2003 to 2012: Freelance music composer and arranger based in Chile. Produced music for cinema, TV, theatre, and others, in various genres and for different ensembles such as orchestra, chamber, electroacoustic (acousmatic, live and mixed), popular, big-band, folk, electronica, etc.

Peer-reviewed publications

Mendoza, J.I. (2023). <i>Mimetic relationships between bodily movement and musical structure: theory, measurement, and application</i> . JYU Dissertations, University of Jyväskylä, Finland. http://urn.fi/URN:ISBN:978-951-39-9799-1
Mendoza, J.I. (2023). The Rearranger Ball: Delayed Gestural Control of Musical Sound using Online Unsupervised Temporal Segmentation. In <i>Proceedings of the International Conference on New Interfaces for Musical Expression</i> . https://nime.org/proc/nime2023_19/index.html
Thompson, M.R., Mendoza, J.I., Luck, G., & Vuoskoski, J.K. (2023). Relationships between Audio and Movement Features, and Perceived Emotions in Musical Performance. <i>Music and Science</i> , 6. https://doi.org/10.1177/20592043231177871
Mendoza, J.I. (2022). Segmentation Boundaries in Accelerometer Data of Arm Motion Induced by Music: Online Computation and Perceptual Assessment. <i>Human Technology</i> , 18(3), 250–266. https://doi.org/10.14254/1795-6889.2022.18-3.4
Mendoza, J.I., Burger, B., & Luck, G. (2022). Exploring Relations Between Big Five Personality Traits and Musical Emotions Embodied in Spontaneous Dance. <i>Psychology of Music</i> , 51(4). https://doi.org/10.1177/03057356221135355
Mendoza, J.I., Danso, A., Luck, G., Rantalainen, T., Palmberg, L., & Chastin, S. (2022). Musification of Accelerometry Data Towards Raising Awareness of Physical Activity. In <i>Proceedings of the Conference on Sonification of Health and Environmental Data</i> . https://doi.org/10.5281/zenodo.7243875
Touizar, M., Mendoza, J. I., & Thompson, M. R. (2022). Links between Embodiment and Perceived Brightness in Orchestral Music. In <i>Psychology and Music–Interdisciplinary Encounters, Conference Proceedings</i> , 17. https://www.fmu.bg.ac.rs/wp-content/uploads/2023/07/01-touizar-et-al..pdf
Mendoza, J.I. & Thompson, M.R. (2017). Modelling Perceived Segmentation of Bodily Gestures Induced by Music. In <i>Proceedings of the 25th Anniversary Conference of the European Society for the Cognitive Sciences of Music</i> . http://urn.fi/URN:NBN:fi:jyu-201711024121
Mendoza, J.I., & Thompson, M.R. (2017). Gestural Agency in Human-Machine Musical Interaction. In <i>The Routledge companion to embodied music interaction</i> (pp. 412-419). New York, NY: Routledge. http://urn.fi/URN:NBN:fi:jyu-201801081081
Thompson, M. R., & Mendoza, J. I. (2014). Review of New Perspectives in Music and Gesture. <i>Psychomusicology: Music, Mind and Brain</i> , 24 (4). p. 344-350. http://dx.doi.org/10.1037/pmu0000084
Mendoza, J. I. (2014). <i>Self-report measurement of segmentation, mimesis and perceived emotions in acousmatic electroacoustic music</i> . Master's thesis, University of Jyväskylä, Finland. http://urn.fi/URN:NBN:fi:jyu-201406192112