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Current position and most recent positions held:

01.01.2025-present: Assistant Professor, Center for Music in the Brain, Aarhus University

01.06.2021–31.12.2024: Postdoctoral researcher, Center for Music in the Brain, Aarhus University

Education:

10.10.2021: Ph.D. in Neuroscience, Center for Music in the Brain, Aarhus University, Denmark.

18.01.2018: Master's degree in Neurobiology, National Autonomous University of Mexico, Mexico.

07.12.2016: Diploma in Healthcare Management and Administration, National Autonomous University of Mexico, Mexico.

28.09.2011: Medical Doctor, Meritorious Autonomous University of Puebla, Mexico.

Scientific focus: Cognitive neuroscience with a focus on clinical applications. Basic and applied music neuroscience with special interest on timing, rhythm, and sensorimotor systems using state-of-the-art neuroimaging techniques including electroencephalography, magnetoencephalography, and magnetic resonance imaging.

International relations (selected):

Professor Elvira Brattico, University of Bari, and Aarhus University, Italy/Denmark

Professor Christine Parsons, Aarhus University, Denmark

Professor Virginia Penhune, Concordia University, Canada

Assistant Professor Maria Witek, University of Birmingham, United Kingdom

Assistant Professor Eduardo Garza-Villarreal, National Autonomous University of Mexico, Mexico

Supervision of students: Co-supervisor of 13 students (Masters and Bachelors) at Aarhus University, Medicine and Cognitive Science

Scientific awards and honours:

08.2023: Young Researcher Award from the International Conference of Music Perception and Cognition (ICMPC) 24-28 August, Tokyo, Japan.

12.2023: Outreach Henry Prize, prize for scientific outreach, collaboration, and support of colleagues, Awarded by CFIN/MINDLab and Center for Music in the Brain, Aarhus University, Denmark

Research funding:

2024: Research Grant from Parkinsonforeningen, Denmark. Project title: "Rhythm and time in the audio-motor brain: a comprehensive approach with Parkinson's disease" 100.000 DKK

2024: Travel Grant from NordicMEG, Finland. Project title: "Cerebellar dysfunction in medicated Parkinson's disease" 3.750 DKK

2023: Research Grant from Parkinsonforeningen, Denmark. Project title: "Unlocking the pleasurable urge to move to music in people with Parkinson's disease through rhythm and social connection" 75.150 DKK

2023: Travel Grant from the International Conference of Music Perception and Cognition (ICMPC) Tokyo, Japan. Project title: "An fMRI study on the groove experience in Parkinson's disease" 10.000 DKK

2019: Travel Grant from the Lundbeck Foundation, Denmark (2019). Project title: "The neuroanatomy of musical expertise: A systematic review and meta-analysis of neuroimaging studies" for the Organization for Human Brain Mapping (OHBM) meeting, Rome, Italy 10.000 DKK

Total amount received: 198.900 DKK

Peer-reviewed journals indices (google scholar): Number of publications: 14 (9 first authorships).

Citations: 1021. H-index: 12

List of Publications

1. Stupacher, J., Vuust, P., & **Pando-Naude, V.** (2026). Social interaction enhances the pleasurable urge to move to music in people with Parkinson's disease. *Journal of Parkinson's Disease*.
<https://doi.org/10.1177/1877718X261469682>
2. **Pando-Naude, V.**, Howlin, C., Bradt, J., Jespersen, K., Roy, M., Garza-Villarreal, E., Koelsch, S., & Vuust, P. (2026). Music-based interventions for chronic pain management. *Cochrane Database of Systematic Reviews*, CD016354. <https://doi.org/10.1002/14651858.CD016354>
3. Carraturo, G., **Pando-Naude, V.**, Costa, M., Vuust, P., Bonetti, L., & Brattico, E. (2025). The major-minor mode dichotomy in music perception. *Physics of Life Reviews*.
<https://doi.org/10.1016/j.plrev.2024.11.017> (**shared first authorship**).
4. Lumaca, M., Keller, P. E., Baggio, G., **Pando-Naude, V.**, Bajada, C. J., Martinez, M. A., Hansen, J. H., Ravignani, A., Joe, N., Vuust, P., Vulić, K., & Sandberg, K. (2024). Frontoparietal network topology as a neural marker of musical perceptual abilities. *Nature Communications*, 15(1), 1–15.
<https://doi.org/10.1038/s41467-024-52479-z>
5. **Pando-Naude, V.**, Jespersen, K., Johnsen, E., & Vuust, P. (2024). Rhythmic auditory stimulation for motor rehabilitation in Parkinson's disease. *Cochrane Database of Systematic Reviews*, 2.
<https://www.cochranelibrary.com/cdsr/doi/10.1002/14651858.CD015759/full>
6. **Pando-Naude, V.**, Matthews, T., Højlund, A., Johnsen, E., Garza Villarreal, E., Witek, M., Heggli, O., Kleber, B., Penhune, V., & Vuust, P. (2023). An fMRI study on the groove experience in Parkinson's disease. In *Proceedings of the International Conference of Music Perception and Cognition ICMPC17-APSCOM*, Tokyo, August 24-28, 2023. p.610-615. <https://doi.org/10.13140/RG.2.2.23884.18561>
7. **Pando-Naude, V.**, Matthews, T. E., Højlund, A., Jakobsen, S., Østergaard, K., Johnsen, E., Garza-Villarreal, E. A., Witek, M. A. G., Penhune, V., & Vuust, P. (2023). Dopamine dysregulation in Parkinson's disease flattens the pleasurable urge to move to musical rhythms. *European Journal of Neuroscience*, no.16128. <https://doi.org/10.1111/ejn.16128> (**shared first authorship**).
8. Jespersen, K.V., **Pando-Naude, V.**, Koenig, J., Jennum, P., Vuust, P. (2022) Listening to music for insomnia in adults. *Cochrane Database Syst Rev*.
<https://www.cochranelibrary.com/cdsr/doi/10.1002/14651858.CD010459.pub3/full>
9. Stupacher J., Matthews, T.E., **Pando-Naude, V.**, Foster Vander Elst, O., Vuust, P. (2022) The sweet spot between predictability and surprise: musical groove in brain, body, and social interactions. *Front. Psychol.* 13:906190
<https://www.frontiersin.org/journals/psychology/articles/10.3389/fpsyg.2022.906190/full>
10. Criscuolo, A., **Pando-Naude, V.**, Bonetti, L., Vuust, P., Brattico, E. (2022). An ALE meta-analytic review of musical expertise. *Scientific Reports*. 12 (1): 11726
<https://www.nature.com/articles/s41598-022-14959-4> (**shared first authorship**).
11. **Pando-Naude, V.**, Patyczek, A., Bonetti, L., Vuust, P. An ALE meta-analytic review of top-down and bottom-up processing of music in the brain (2021). *Scientific Reports*. 11 (1): 20813
<https://www.nature.com/articles/s41598-021-00139-3> (**shared first authorship**).
12. **Pando-Naude, V.**, Toxto, S., Fernandez-Lozano, S., Parsons, C.E., Alcauter, S., & Garza-Villarreal, E.A. (2021). Gray and white matter morphology in substance use disorders: a neuroimaging systematic review and meta-analysis. *Translational Psychiatry*, 11(1).
<https://www.nature.com/articles/s41398-020-01128-2>
13. **Pando-Naude, V.**, Barrios, F. A., Alcauter, S., Pasaye, E. H., Vase, L., Brattico, E., Vuust, P., Garza-Villarreal, E. A. (2019). Functional connectivity of music-induced analgesia in fibromyalgia. *Scientific Reports*. <https://www.nature.com/articles/s41598-019-51990-4>

14. Garza-Villarreal, E. A., **Pando-Naude, V.**, Vuust, P., Parsons, C. (2017). Music-Induced Analgesia in Chronic nPain Conditions: A Systematic Review and MetaAnalysis. *Pain Physician*, pp. 597–610.
<https://www.painphysicianjournal.com/current/pdf?article=NDcwMw%3D%3D&journal=108>