

# Mateo López Espejo

lopezesp@ohsu.edu • mateo.lopez.espejo@gmail.com

Laboratory of Brain Hearing and Behavior  
Oregon Hearing Research Center  
Oregon Health and Science University  
3181 S.W. Sam Jackson Park Road, Portland, OR, 97239

## EDUCATION

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**Oregon Health and Science University (OHSU)**, Portland, OR  
Neuroscience, Ph.D

*July 2016 to December 2021*

**Universidad Nacional de Colombia (UNAL)**, Bogota, Colombia  
Biology, B.S.

*February 2010 to July 2015*

## SCIENTIFIC SKILLS

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*Laboratory proficiencies:* In-vivo electrophysiology, in-vitro electrophysiology, spike sorting, multi-unit data analysis, multi-electrode array recording, patch clamp electrophysiology, steril surgery, histology, cloning and basic molecular biology, basic electronics.

*Computer proficiencies:* Python, MATLAB, MySQL

*Additional Tools:* Git, Linux, LaTeX

## RESEARCH EXPERIENCE

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Doctoral Student – Dr. Stephen David, OHSU  
Undergraduate Research Assistant – Dr. Enrico Nasi Lignarolo, UNAL

*October 2017 to December 2021*  
*2013 to June 2016*

## AWARDS AND FELLOWSHIPS

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Promising scholar award, Center for Diversity and Inclusion, OHSU  
Best admission exams for Biology, B.S, UNAL

*2016*  
*2010*

## TEACHING EXPERIENCE

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Systems Neuroscience, TA, OHSU  
Microbiology, TA, UNAL  
Animal physiology, TA, UNAL

*2017*  
*2015*  
*2014*

## COMMUNITY OUTREACH

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Alliance for Visible Diversity in Science, Events Chair

*2019 to 2021*

## PROFESSIONAL MEMBERSHIP

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Society for Neuroscience

*2019 to Present*

## PUBLICATIONS

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**Lopez Espejo, M**, Schwartz Z. P., & David, S. V. (2019). Spectral tuning of adaptation supports coding of sensory context in auditory cortex. PLoS Comput Biol 15(10): e1007430. <https://doi.org/10.1371/journal.pcbi.1007430>.

## SELECTED ABSTRACTS

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- López Espejo M.**, David, S. V. Sparse representation of sensory context by single neurons in auditory cortex. San Diego, CA: Society for Neuroscience (SFN), 2022.
- López Espejo M.**, David, S. V. Differential temporal modulation tuning in auditory responses between inhibitory and excitatory neurons in ferret auditory cortex. Chicago, IL: Society for Neuroscience (SFN), 2021.
- Heller C. R., Saderi D, **López Espejo M.**, David, S. V. Task engagement selectively enhances population discrimination of behavior-relevant categories in primary auditory cortex. Denver, CO: Computational and Systems Neuroscience (COSYNE), 2020
- López Espejo M.**, David, S. V. Long lasting contextual discrimination in non primary auditory cortex. Chicago IL: Advances and Perspectives in Auditory Neuroscience (APAN), 2019.
- Prieto J.D., **López Espejo M.**, Gómez M., & Nasi E. A phototransduction complex in the retina of squid: generality of the transducosome for light signaling. Buenos Aires, Argentina: Congreso latinoamericano de neurociencias, 2017.