



Juan David Leongómez

ASSOCIATE PROFESSOR

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I am a scientist mainly interested in human behaviour, as well as quantitative methods, and reproducible science.

About me

I am an Associate Professor and Researcher at the [Human Behaviour Lab \(LACH\)](#), Faculty of Psychology, at [Universidad El Bosque](#) in Bogota, Colombia. My research interests include mate choice and human vocal communication, with an aspiration towards understanding musicality. I am also interested in hormonal effects on human behaviour. I published among the first articles showing within-individual changes in voice pitch in response to the social status of the listener, and have demonstrated strong effects of voice modulation on listeners in courtship contexts. I am very passionate about quantitative methods and R programming, as a tool to promote reproducibility and open science.

Skills

Data Science	R (advanced: all data wrangling, analysis, plots and tables -and even this CV- made in R)
Reproducible Report	Markdown/Rmarkdown (including $\text{L}^{\text{A}}\text{T}_{\text{E}}\text{X}$ and $\text{H}^{\text{T}}\text{M}^{\text{L}}$)
Quantitative Research	General and Generalised Linear Models, Linear Mixed-effects Models
Software	R, RStudio, Praat, Audacity, InkScape, Zotero, OBS Studio, Blender
Languages	English/Spanish (native)

Education

PhD - Psychology UNIVERSITY OF STIRLING - SCHOOL OF NATURAL SCIENCES	<i>Stirling, UK</i> 2014
MSc in Evolutionary Psychology UNIVERSITY OF LIVERPOOL - SCHOOL OF BIOLOGICAL SCIENCES	<i>Liverpool, UK</i> 2009
BA in Music Pedagogy UNIVERSIDAD PEDAGÓGICA NACIONAL - FACULTAD DE BELLAS ARTES	<i>Bogota, Colombia</i> 2006

Working and Teaching Experience

For a full list, and a description of responsibilities, please check [my website](#) or my [detailed CV](#).

Universidad El Bosque ASSOCIATE PROFESSOR	<i>Bogota, Colombia</i> Jan. 2015 - Present
Universidad de La Sabana CATHEDRATIC PROFESSOR	<i>Chia, Colombia</i> Jan. 2015 - Dec. 2016
University of Stirling TEACHING ASSISTANT	<i>Stirling, UK</i> 2011 - 2014

Accomplishments

For information on **grants**, **scholarships**, **awards** and **prizes**, please check [my website](#) or my [detailed CV](#).

Selected Publications

For a full list, please check the publications section on [my website](#) or my [detailed CV](#).

SELECTED PREPRINTS AND ARTICLES UNDER REVIEW

Leongómez, J. D. (2020). Análisis de poder estadístico y cálculo de tamaño de muestra en R: Guía práctica. *Zenodo*. <https://doi.org/10.5281/zenodo.3988777>

Leongómez, J. D., Sánchez, O. R., Vásquez-Amézquita, M., & Roberts, S. C. (2020). Contextualising courtship: Exploring male body odour effects on vocal modulation. *PsyArXiv*. <https://doi.org/10.31234/osf.io/8f7g3>

SELECTED JOURNAL ARTICLES

Leongómez, J. D., Sánchez, O. R., Vásquez-Amézquita, M., Valderrama, E., Castellanos-Chacón, A., Morales-Sánchez, L., Nieto, J., & González-Santoyo, I. (2020). Self-reported health is related to body height and waist circumference in rural indigenous and urbanised latin-american populations. *Scientific Reports*, *10*(1), 4391. <https://doi.org/10.1038/s41598-020-61289-4>

Leongómez, J. D., Mileva, V. R., Little, A. C., & Roberts, S. C. (2017). Perceived differences in social status between speaker and listener affect the speaker's vocal characteristics. *PLoS One*, *12*(6), e0179407. <https://doi.org/10.1371/journal.pone.0179407>

Leongómez, J. D., Binter, J., Kubicová, L., Stolařová, P., Klapilová, K., Havlíček, J., & Roberts, S. C. (2014). Vocal modulation during courtship increases perceptivity even in naive listeners. *Evolution and Human Behavior*, *35*(6), 489–496. <https://doi.org/10.1016/j.evolhumbehav.2014.06.008>

Investigación Abierta (YouTube channel)

[Investigación Abierta](#) is a YouTube channel (in Spanish) where I post videos and tutorials related to quantitative research methods and open science, as well as useful open source software.

Postgraduate Supervision

For a full list, including undergraduate supervision, please check [my website](#) or my [detailed CV](#).

Milena Vásquez-Amézquita

PHD IN NEUROSCIENCE

- Supervised together with Alicia Salvador.

University of Valencia, Spain

2015 - 2018

Francisco Javier Flores

PROFESSIONAL DOCTORATE IN COUNSELLING PSYCHOLOGY

- Supervised together with Lisa Chiara Fellin.

University of East London, UK

2015 - 2018

Julia Sanz-Vidania

PSYCHOLOGICAL RESEARCH METHODS (EVOLUTIONARY PSYCHOLOGY) MSC

- Supervised together with S. Craig Roberts.

University of Stirling, UK

2013 - 2014

Adrián Acosta Guerrero

MSC IN PSYCHOLOGY

- Supervised together with Milena Vásquez-Amézquita.

Universidad El Bosque

2019 - 2020

Editorial Appointments

I am currently serving as a guest editor of a forthcoming theme issue on [Philosophical Transactions B](#). I am an ad-hoc reviewer for a variety of journals including [Proceedings of the Royal Society B: Biological Sciences](#), [Royal Society Open Science](#), [Evolution and Human Behavior](#), [Basic and Applied Social Psychology](#), and [Frontiers in Psychology](#) where I am currently a [Review Editor](#) for the [Evolutionary Psychology specialty section](#). My verified review record is available from my [Publons](#) profile.