



# Juan David Leongómez

ASSOCIATE PROFESSOR

Faculty of Psychology, Universidad El Bosque

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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

|                              |  |
|------------------------------|--|
| <b>Programming</b>           | R (advanced: all data wrangling, analysis, plots and tables -and even this CV- made in R)                    |
| <b>Reproducible Report</b>   | Markdown/Rmarkdown (including $\text{\LaTeX}$ and $\text{\HTML}$ )   |
| <b>Quantitative Research</b> | General and Generalised Models, Linear Mixed-effects Models, Model selection and Averaging, Machine Learning |
| <b>Software</b>              | R, RStudio, Praat, Audacity, InkScape, Zotero, OBS Studio, Blender   |
| <b>Languages</b>             | English/Spanish (native)   |

## Education

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

## Working and Teaching Experience

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

|                                 |                         |
|---------------------------------|-------------------------|
| <b>Universidad El Bosque</b>    | <i>Bogota, Colombia</i> |
| ASSOCIATE PROFESSOR             | Jan. 2015 - Present     |
| <b>Universidad de La Sabana</b> | <i>Chia, Colombia</i>   |
| CATHEDRATIC PROFESSOR           | Jan. 2015 - Dec. 2016   |
| <b>University of Stirling</b>   | <i>Stirling, UK</i>     |
| TEACHING ASSISTANT              | 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.,** Havlíček, J., & Roberts, S. C. (in press). Musicality in human vocal communication: An evolutionary perspective. *Philosophical Transactions of the Royal Society B: Biological Sciences*, 376, 20200391. <https://doi.org/10.1098/rstb.2020.0391>

**Leongómez, J. D.,** Pisanski, K., Reby, D., Sauter, D., Lavan, N., Perlman, M., & Varella Valentova, J. (in press). Voice modulation: From origin and mechanism to social impact. *Philosophical Transactions of the Royal Society B: Biological Sciences*, 376, 20200386. <https://doi.org/10.1098/rstb.2020.0386>

**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 proceptivity 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** [Open Research] 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 have served as 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](#), [Scientific Reports](#), [Basic and Applied Social Psychology](#), [Cortex](#), [Perception](#), [Evolutionary Psychology](#), and [Frontiers in Psychology](#) where I am currently a Review Editor for the [Evolutionary Psychology specialty section](#). My full, verified review record is available from my [Publons](#) profile.