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Juan David Leongómez

Ph.D., M.Sc.

Researcher in areas of human behaviour and evolution. My general interests are centred around mate choice and vocal communication (mainly in humans, but including other mammals and birds). Also, I have an interest in sound perception, mate choice mechanisms, associations between hormones and behaviour, and experimental and quantitative research methods.

ACADEMIC EXPERIENCE

2018 – present

INVESTIGADOR POSTDOCTORAL – [El Bosque University](#)

- + [Colciencias](#) (Colombian Administrative Department of Science, Technology, and Innovation) funding for the project *Perceptible signs of physical and mental health in faces, voices, and body odours, and their relationship with hormonal levels*.
- + Researcher at the Human Behaviour Analysis Lab ([Laboratorio de Análisis del Comportamiento Humano - LACH](#)).

2015 – present

ASSISTANT PROFESSOR – [El Bosque University](#), [Faculty of Psychology](#)

- + Researcher at the *Human Behaviour Analysis Lab* (LACH).
- + Methodological and statistical advisor for postgraduate and faculty research projects.
- + Leader of the *Cognitive Processes and Education* research group ([Procesos Cognoscitivos y Educación](#)) (2016-2017, 2019-present).
- + Organiser of the *Nerd Café* weekly conference series of the Faculty of Psychology (2016-2017).
- + Supervision of a variety of undergraduate research projects associated with psychology and biology.
- + Co-supervision of Doctoral students
 - o [Milena Vásquez-Amézquita](#) (PhD in Neuroscience, [University of Valencia](#), Spain – 2015-2018. Principal Supervisor: [Prof. Alicia Salvador](#)).
 - o [Francisco Javier Flores](#) (Prof. Doc in Counselling Psychology, University of East London, UK. Principal Supervisor: [Dr Lisa Chiara Fellin](#)).

Modules taught

- + *Quantitative Methods I* (Psychology MSc – 2017).
- + *Quantitative Methods II* (Psychology MSc – 2017-presente)
- + *Research Degree Project* (2017).
- + *Sources and Style of Documentation in Psychology* (2015).

2015 – 2016

CATHEDRATIC PROFESSOR – [La Sabana University](#), [Faculty of Psychology](#)

Modules taught

- + *Evolution and Development of Vocal Communication: Songs, Fashion, and Language* (2016).
- + *Inferential Statistics* (2015-2016).
- + *Descriptive Statistics* (2015-2016).

2011 – 2014

TEACHING ASSISTANT – University of Stirling (UK).

- + Supervision of an MSc research project ([Evolutionary Psychology MSc](#)).

Modules taught

- + *Animal Behaviour* (lecture on vocal communication).
- + Quantitative Methods (Psychology MSc – several lectures, practical supervision, one-on-one teaching).
- + *Cognition Module* (leading research projects in psychoacoustics).

EDUCATION

2010 – 2014

Ph.D. PSYCHOLOGY – University of Stirling (UK).

Behaviour and Evolution Research Group

Division of Psychology – School of Natural Sciences

- + Thesis *Contextual Musicality: Vocal Modulation and its Perception in Human Social Interaction* (<http://dspace.stir.ac.uk/handle/1893/21102>).
- + Principal Supervisor: Prof. S. Craig Roberts (www.scraigroberts.com).
- + Secondary Supervisor: Dr Anthony C. Little (www.alittlelab.com).

2008 – 2009

M.Sc. EVOLUTIONARY PSYCHOLOGY – University of Liverpool (UK).

Behavioural Ecology and Evolutionary Psychology Research Group

School of Biological Sciences

- + Dissertation *Variation of pitch and loudness range of human voice in response to intra- and inter-sexual stimuli*.
- + Relevant modules include: Cognitive Evolution, Human Behavioural Ecology, Principles of Evolution, Statistics for Biologists, Early Humans: Sites and Behaviour.
- + Supervisor: Dr S. Craig Roberts (www.scraigroberts.com)

1998 – 2005

MUSIC PEDAGOGY B.A. – National Pedagogical University (Colombia).

Faculty of Fine Arts

HONOURS & AWARDS

2017

COLCIENCIAS – [Postdoctoral Research Stays - Colciencias beneficiaries 2017](#) (PI: Juan David Leongómez).

- 2016 **EL BOSQUE UNIVERSITY** – IX Internal Call for Financing Research and Technological Innovation Projects El Bosque University, 2017 (PI: Oscar R. Sánchez Rubio).
- 2016 **EL BOSQUE UNIVERSITY** – VIII Internal Call for Financing Research and Technological Innovation Projects El Bosque University, 2016 (PI: Dr Eugenio Valderrama Escallón).
- 2015 **EL BOSQUE UNIVERSITY** – VII Internal Call for Financing Research and Technological Innovation Projects El Bosque University, 2015 (PI: Juan David Leongómez).
- 2014 **EXPERIMENTAL PSYCHOLOGY SOCIETY** – Grindley Grants (PI: Juan David Leongómez).
- 2013 **INTERNATIONAL SOCIETY FOR HUMAN ETHOLOGY (ISHE)** – Owen Aldis Award (PI: Dr. Jakub Binter).
- 2010 **COLCIENCIAS** – Francisco José de Caldas Scholarship for Doctoral Studies.
- 2009 **SCHOOL OF BIOLOGICAL SCIENCES – UNIVERSITY OF LIVERPOOL** – Annual Prize in Evolutionary Psychology (best overall performance in the MSc).
- 2008 **UNIVERSITY OF LIVERPOOL** – University of Liverpool International Scholarship.
- COLFUTURO** – [Scholarship-Loan Programme](#).

PUBLICATIONS

Preprints

2019

Martínez, C. A., & **Leongómez, J.D.** (2019). Dehumanization Effects on Agency Attributions, Retributive Justice judgments, and Resocialization Attitudes towards Former Perpetrators in Post-conflict. *PsyArXiv*.
<https://doi.org/10.31234/osf.io/w5tka>

Leongómez, J.D., Sanchez, O.R., Vasquez-Amézquita, M., Valderrama, E., Castellanos-Chacon, A., Morales-Sanchez, L., ... Gonzalez-Santoyo, I. (2019). Self-reported Health is Related to Body Height and Waist Circumference in Rural Indigenous and Urbanized Latin-American Populations. *BioRxiv*, 562942.
<https://doi.org/10.1101/562942>

Published

2019

Vásquez-Amézquita, M., **Leongómez, J.D.**, Seto, M. C., Bonilla, M., Rodríguez-Padilla, A., & Salvador, A. (2019). Visual Attention Patterns Differ in Gynephilic and Androphilic Men and Women Depending on Age and Gender of Targets. *Journal of Sex Research*, 56(1), 85–101.
<https://doi.org/10.1080/00224499.2017.1372353>

Vásquez Amézquita, M., **Leongómez, J.D.**, Seto, M. C., & Salvador, A. (2019). Differences in Visual Attention Patterns to Sexually Mature and Immature Stimuli Between Heterosexual Sexual Offenders, Nonsexual Offenders, and Nonoffending Men. *Journal of Sex Research*, 56(2), 213–228.
<https://doi.org/10.1080/00224499.2018.1511965>

- 2018 Culpepper, P. D., Havlíček, J., **Leongómez, J.D.**, & Roberts, S. C. (in press). Visually activating pathogen disgust: A new instrument for studying the behavioural immune system. *Frontiers in Psychology*. <https://doi.org/10.3389/fpsyg.2018.01397>
- Danel, D.P., Varella Valentova, J, Sánchez, O. R., **Leongómez, J.D.**, Varella, M.A.C, Kleisner, K. (in press). A cross-cultural study of sex-typicality and averageness: Correlation between frontal and lateral measures of human faces. *American Journal of Human Biology*. Preprint available on *bioRxiv* (document 194662). <https://doi.org/10.1101/194662>
- Vásquez-Amézquita, M., **Leongómez, J.D.**, Seto, M. C., Bonilla, F. M., Rodríguez-Padilla, A., & Salvador, A. (2018). No relation between digit ratio (2D:4D) and visual attention patterns to sexually preferred and non-preferred stimuli. *Personality and Individual Differences*, 120, 151–158. <https://doi.org/10.1016/j.paid.2017.08.022>
- Mileva, V. R., & **Leongómez, J.D.** (2018, March). Want to know if your partner's cheating on you? Just listen to their voice. *The Conversation*. Retrieved from <https://theconversation.com/want-to-know-if-your-partners-cheating-on-you-just-listen-to-their-voice-92387>
- 2017 Mileva, V. R., & **Leongómez, J.D.** (2017, Junio). We change our voice when we talk to high-status people, shows new study. *The Conversation*. Retrieved from <https://theconversation.com/we-change-our-voice-when-we-talk-to-high-status-people-shows-new-study-80053>
- 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>
- Bonilla Carreño, C. F. M., & **Leongómez, J.D.** (2017). Efectos en la amplitud y la latencia del componente N170 ante la presentación de rostros emocionales de ira y miedo. *Psychologia*, 11(1), 39–48. <https://doi.org/10.21500/19002386.3100>
- 2015 Cobey, K. D., Nicholls, M., **Leongómez, J.D.**, & Roberts, S. C. (2015). Self-reported Dominance in Women: Associations with Hormonal Contraceptive use, Relationship Status, and Testosterone. *Adaptive Human Behavior and Physiology*, 1(4), 449–459. <https://doi.org/10.1007/s40750-015-0022-8>
- Leongómez, J.D.** (2015). La música como objeto de estudio científico: consideraciones en torno a la musicalidad y el origen de la música. *Pensamiento Palabra Y Obra*, 1(15), 77–86. <https://doi.org/10.17227/2011804X.15PPO77.86>
- 2014 **Leongómez, J.D.** (2014). *Contextual Musicality: vocal modulation and its perception in human social interaction* (Doctoral Thesis, University of Stirling, UK). Retrieved from <http://hdl.handle.net/1893/21102>
- 2012 Binter, J., **Leongómez, J.D.**, Moyano, N., Valentova, J., Jouza, L., & Klapilová, K. (2012). Sex differences in the incidence of sexual fantasies focused on evolutionary relevant objects. *Anthropologie: International Journal of Human*

- Diversity and Evolution*, 50(1), 83–93.
<http://puvodni.mzm.cz/Anthropologie/article.php?ID=1413>
- 2011 Ferdenzi, C., Lemaître, J.-F., **Leongómez, J.D.**, & Roberts, S. C. (2011). Digit ratio (2D:4D) predicts facial, but not voice or body odour, attractiveness in men. *Proceedings of the Royal Society B: Biological Sciences*, 278(1724), 3551–3557. <https://doi.org/10.1098/rspb.2011.0544>
- 2008 **Leongómez, J.D.** (2008). El origen no humano de la música. (*Pensamiento*), (palabra) Y Obra, 1, 87–97. Retrieved from <https://dialnet.unirioja.es/servlet/articulo?codigo=3841084>
- Under revision
- 2019 Watkins, C.D., **Leongómez, J.D.**, Bovet, J., Zelazniewicz, A., Korbmacher, M., Correa Varella, M.A., Fernandez, A.M., Wagstaff, D., & Bolgan, S. (2018). *Do national health and wealth predict attitudes toward, and use of mouth-to-mouth kissing in romantic relationships?* Manuscript under review.
- Martínez, C. A., & **Leongómez, J.D.** (2019). *Dehumanization Effects on Agency Attributions, Retributive Justice judgments, and Resocialization Attitudes towards Former Perpetrators in Post-conflict*. Manuscript under review.
- Leongómez, J.D.**, Sanchez, O.R., Vasquez-Amezquita, M., Valderrama, E., Castellanos-Chacon, A., Morales-Sanchez, L., ... Gonzalez-Santoyo, I. (2019). *Self-reported Health is Related to Body Height and Waist Circumference in Rural Indigenous and Urbanized Latin-American Populations*. Manuscript under review.
- In preparation
- 2019 Bonilla, F.M., Sánchez, O.R., Valderrama, E. & Mileva, V.R., & **Leongómez, J.D.** (2018). *Effect of evolutionary relevant static signals (sex, dominance, and attractiveness) on cortical face processing humans*. Manuscript in preparation
- Leongómez, J.D.**, Murray, A.K., & Roberts, S.C. (2018). *Contextualising courtship: odour effects on vocal modulation*. Manuscript in preparation.
- 2018 Binter, J., **Leongómez, J.D.**, Sebesta, P., Bartova, K., Krejcova, L., Kubicova, L., Mueller, S., & Klapilova, K. (2017). *Changes in testosterone, cortisol, and vocal displays during virtual courtship in Young adult men*. Manuscript in preparation.
- Leongómez, J.D.**, & Roberts, S.C. (2017). *Contextual musicality: a model for the evolution of human musicality*. Manuscript in preparation.
- Leongómez, J.D.**, Sanchez, O.R., Valderrama, E., & Roberts, S. C. (2017). *Masculinity and testosterone levels negatively predict pitch discrimination in men*. Manuscript in preparation.
- Sanchez, O.R., Valderrama, E., Moreno, J., & **Leongómez, J.D.** (2017). *Testosterone levels predict age of violent death in men and women across countries*. Manuscript in preparation.

- 2018 *Contextualising courtship: male body odour effects on vocal modulation*; [XXIV Biannual Conference for Human Ethology](#) (Hotel Plaza San Francisco), Santiago, Chile, September 3-7, 2018.
- Short Postgraduate-Level Course (organiser and attendee): Theoretical-practical course in methods and analysis of shape through the use of geometric morphometrics* (El Bosque University), Bogota, Colombia, June 13 – 20, 2018.
- 2017 *Effects of hormonal levels, masculinity and femininity, on men's and women's pitch discrimination*; XXIII Institutional Research Congress (El Bosque University), Bogota, Colombia, September 20, 2017.
- The sound of seduction: Vocal modulations and their effects during courtship*; 2nd Symposium of Neurosciences, Cognition and Society (Javeriana University), Bogota, Colombia, August 18-19, 2017.
- Is the relationship between musical and linguistic processing a vestige of the evolutionary origins of music?* Brain Awareness Week 2017 (El Bosque University), Bogota, Colombia, March 13, 2017.
- 2016 *Perceived differences in social status between speaker and listener affect the speaker's vocal characteristics*; International Society for Human Ethology (ISHE), [XXIII Biennial Congress On Human Ethology](#) (University of Stirling), Stirling, UK, August 1-6, 2016.
- 2014 *Vocal modulation during courtship increases perceptivity even in naive listeners*; European Human Behaviour and Evolution Association, [EHBEA Annual Meeting 2014](#) (University of Bristol), Bristol, UK, April 6-9, 2014.
- 2013 *The sound of sweet nothings: How men and women modulate vocal parameters in speech directed towards attractive and unattractive individuals*. The Social Mind and Brain Group (University of Stirling), Stirling, UK, April 4, 2013.
- Poster: European Human Behaviour and Evolution Association*, [EHBEA Annual Meeting 2013](#) (VU University Amsterdam), Amsterdam, Holanda, March 24-27 2013.
- Voice research techniques using Praat*; (Faculty of Humanities, Charles University), Prague, Czech Republic, March 15, 2013.
- Evolutionary psychology and research*; (Faculty of Humanities, Charles University), Prague, Czech Republic, March 11, 2013.
- Acoustic Communication*; ([Centre for Theoretical Study](#)), Prague, Czech Republic, March 5, 2013.
- 2012 *Short Course: Statistical Programming in R and Linear Mixed Models* (University of Dundee), Dundee, UK, August 27 – 29, 2012.
- The sounds of sweet nothings: human vocal modulations and courtship*; Group of Human Ethology (Charles University), Prague, Czech Republic, Mayo 23, 2012.
- Voice research techniques using Praat*; Group of Human Ethology (Charles University), Prague, Czech Republic, Mayo 16, 2012.

Voice research techniques using Praat; Scottish Universities Psychology Postgraduate Research Training – SUPPORT (University of Stirling), Stirling, UK, January 25, 2012.

2011

Virtual Conference: *The sound of seduction: How men and women modulate our vocal parameters when speaking with attractive or unattractive individuals*; Psychology (El Bosque University), Bogota, Colombia, November 3, 2011.

The sound of sweet nothings: How men and women modulate vocal parameters in speech directed towards attractive and unattractive individuals; Behaviour and Evolution Research Group (University of Stirling), Stirling, UK, February 23, 2011.

2010

Poster: *Context-dependant modulation of vocal parameters*; The Language of Music, the Music of Language; Meeting 2: Entrainment/Meaning (Centre for Music & Science, University of Cambridge), Cambridge, UK, December 13-14, 2010.

ACADEMIC REFERENCES

Prof. S. CRAIG ROBERTS (Ph.D.) – University of Stirling, School of Natural Sciences (UK). <https://www.stir.ac.uk/people/10925>; <https://www.scraigroberts.com/>

Prof. PHYLLIS C. LEE (Ph.D.) – University of Stirling, School of Natural Sciences (UK). <https://www.stir.ac.uk/people/11303>.

Prof. JAN HAVLÍČEK (Ph.D.) – Charles University, Faculty of Science (República Checa). <https://www.scopus.com/authid/detail.uri?authorId=7004768243>.