



Luis M Rodriguez-R

<https://rodriguez-r.com> | miguel@rodriguez-r.com

LUIS MIGUEL RODRIGUEZ ROJAS

ORCID: 0000-0001-7603-3093

Date of birth: 12 / October / 1987

Nationality: Colombia

Web site: <https://rodriguez-r.com/>

PUBLICATION METRICS

Journal Articles: 77

Book Chapters: 4

Citations: 13,273

H-Index: 40

EDUCATION

- 2011-2016** **PhD, Bioinformatics** (minor: Biomedical Engineering)
School of Biological Sciences, Georgia Institute of Technology, USA
- 2010-2011** **MSc, Applied Informatics** (emphasis: Bioinformatics)
Department of Informatics, University of Montpellier, France
- 2009-2011** **MSc, Biological Sciences** (line: Microbiology)
Department of Biological Sciences, Los Andes University, Colombia
- 2005-2009** **BSc, Biology** (dual emphasis: Conservation Ecology and Molecular Plant Pathology)
Department of Biology, National University of Colombia, Colombia

ACADEMIC POSITIONS

- 2021-Present** **Assistant Professor**
Department of Microbiology and Digital Science Center, University of Innsbruck, Austria
- 2020-2020** **Research Scientist**
Department of Microbiology and Digital Science Center, University of Innsbruck, Austria
- 2018-2020** **Research Engineer I**
School of Civil and Environmental Engineering, Georgia Institute of Technology, USA
- 2017-2018** **Postdoctoral Fellow**
School of Civil and Environmental Engineering, Georgia Institute of Technology, USA

TEACHING ACTIVITIES (SINCE 2020)

- 2022-2024** *Special Topics in Ethics and Digitalization*, University of Innsbruck, Austria
- 2021-2025** *Introduction to Programming in R*, University of Innsbruck, Austria
- 2021-2025** *Molecular Biotechnology*, University of Innsbruck, Austria
- 2020-2024** *Molecular Data Analysis*, University of Innsbruck, Austria
- 2023** Invited lecturer - *EMBO Microbial metagenomics: a 360° approach*, European Molecular Biology Laboratory (EMBL), Heidelberg, Germany
- 2022** Invited lecturer - *Workshop on Genomic Techniques*, National Institute for Research on Biological Resources Alexander von Humboldt, Bogotá, Colombia
- 2021** Organizer and lecturer - *Bacterial Genomics Course, North-South-North Network on Xanthomonas*, Colombia, France, Austria, and USA (virtual)
- 2021** Lecturer - *Metagenomics Course*, Universidad de las Islas Baleares, Spain (virtual)

INVITED TALKS (SELECTION, SINCE 2022)

- 2024** *The fundamental role of sampling coverage in the study of environmental genomics*, Annual Meeting of the Chinese Association of Microbial Ecology (CAME), Qingdao, China
- 2024** *Three genomic adaptations in aquatic prokaryotes: Towards a census-based microbial ecology with genome-resolved metagenomes*. Versions delivered at: Institute of Research for Development, France; University of Aalborg, Denmark; Shanghai Jiao Tong University, China; East China Normal University, China; and King Abdullah University of Science and Technology, Saudi Arabia
- 2023** *Studying genomic adaptations under the light of microbial ecology*, 10th Conference Mikrobiokosmos, Larissa, Greece

- 2023** *A census-based microbial ecology with genome-resolved metagenomics*, Department of Microbiology and Molecular Medicine Conference, University of Geneva, Geneva, Switzerland
- 2023** *The SeqCode Registry: A semi-automated platform for the proposal and exploration of names of prokaryotes described from sequence data*, Congress of European Microbiologists FEMS 2024, Hamburg, Germany
- 2023** *Genome-based classification of Archaea and Bacteria on the basis of multiple reference taxonomies with MiGA*, 1st Intl. Symposium on Soil Sustainability and Environmental Health, Yangling, China
- 2023** *Quantifying genetic variation at the edge of metagenomic resolution to characterize in situ population dynamics*, The Local Pangenome 2034, Alicante, Spain
- 2022** *The SeqCode Registry: A semi-automated platform for the proposal and exploration of names of prokaryotes described from sequence data*, Bergey's International Society for Microbial Systematics (BISMiS) Live, Online
- 2022** *Efficiently searching and taxonomic identification of the genomic prokaryotic diversity with the Microbial Genomes Atlas (MiGA 1.0)*, FEMS Conference on Microbiology, Belgrade, Serbia
- 2022** Invited panel member – *Roundtable: The future of microbial taxonomy under the SeqCode*, 18th International Symposium on Microbial Ecology (ISME18), Lausanne, Switzerland
- 2022** *Case study: Hydrocarbon degradation under the light of microbial ecology in an oil spill and Microbial ecology in an oil spill: Impacts, succession, and evaluation of the specialization-disturbance hypothesis*, Guidelines for the Evaluation of Oil Spill Impacts using Genomic Techniques, The Alexander von Humboldt National Institute for Research on Biological Resources, Bogotá, Colombia
- 2022** *What's in a name? Prokaryotic nomenclature meets genomics in the SeqCode Registry*, 5th Symposium of the Austrian Microbiome Initiative (AMICI), Vienna, Austria

FELLOWSHIPS AND AWARDS

- 2023** Elected chair of the Registry and Nomenclature working group, SeqCode
- 2017** Best PhD Thesis Sigma Xi Award, Georgia Institute of Technology, USA
- 2016** ISME Travel Award, ISME 16, International Society for Microbial Ecology
- 2015** School of Biology Graduate Excellence Award, Georgia Institute of Technology, USA
- 2010** Fellowship granted by the Languedoc Region to outstanding international students, France
- 2009** Scientific Mission to the Institute of Research for Development (IRD), Evaluation-Orientation of Scientific Cooperation (ECOS) program, France
- 2004** Department of Biology "Matrícula de Honor" award, National University of Colombia

ACADEMIC SUPERVISION (GRADUATE LEVEL)

- 2025-Present** Co-advisor, Juan Valero Tobar, PhD in Biodiversity and Evolutionary Biology, University of Valencia, Spain (Main advisor: Maria Dzunkova).
- 2024-Present** Advisor: Vadym Sokhan, MSc in Microbiology, University of Innsbruck, Austria.
- 2024-Present** Co-advisor, Vaishali Bhardwaj, MSc in Molecular Biotechnology, Anhalt University of Applied Sciences, Germany (Main advisor: Dirk Benndorf).
- 2023-Present** Advisor, Nathan Ernster, PhD in Microbiology, University of Innsbruck, Austria
- 2022-2024** Co-advisor, Edoardo Mandolini, PhD in Microbiology, University of Innsbruck, Austria (Main advisor: Ursula Peintner). Thesis: Microbial interactions in snow-covered habitats.
- 2022-2024** Advisor: Beatriz Barroso Gstrein, MSc Data Science, University of Innsbruck, Austria. Thesis: Standard-free quantification of compounds with mass spectrometry.
- 2022-2024** Advisor: Dorothea Schneider, MSc Data Science, University of Innsbruck, Austria. Thesis: Prediction of verbalin amount in the medicinal plant *Verbena officinalis* by machine learning based on NIR data.
- 2023** Advisor, Caterina Pansoni, MSc Microbiology, University of Innsbruck, Austria. Thesis: Effect of glycerol addition on the anaerobic digestion process.
- 2022-2023** Advisor, Alexander Paoli, MSc Microbiology, University of Innsbruck, Austria. Thesis: Characterization of biogeographic ranges of saltern prokaryotes through cultivation-independent genomics.