

Curriculum vitae

DAVID M. RAMÍREZ

Scientific Director | Ph.D. | AI Expert in Healthcare | Drug Design & Molecular Pharmacology | Bioinformatics
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Ph.D. in Applied Sciences and expert in AI & Big Data with over 10 years of experience leading drug discovery projects. Specialist in bridging the gap between complex biomolecular data and therapeutic solutions in neuroscience. Proven track record in leading high-performance research teams and managing international scientific networks.

EXECUTIVE CORE COMPETENCIES

- **Technical Expertise:** AI/Machine learning for healthcare, Drug Discovery, Clinical Data Analytics, Pharmacology, Molecular Dynamics Simulations, Neuroscience, Bioinformatics.
- **Strategic Leadership:** Strategic Stakeholder Management (KOLs), cross-functional leadership, scientific communication, business development.

PROFESSIONAL EXPERIENCE

Founder & CEO / Scientific Director | DASTIC SpA | 2024 – Present

- Spearheading the strategic vision and business development of specialized consultancy providing AI-driven solutions for the biotechnology and pharmaceutical sectors.
- Delivering high-impact technical insights to optimize drug discovery pipelines, successfully translating cutting-edge data science into scalable solutions for industrial R&D challenges.
- Managing cross-functional projects and established strategic partnerships with international stakeholders.

Associate Professor & Principal Investigator | Universidad de Concepción | 2021 – Present

- Direct high-impact research initiatives by securing and managing over \$600k+ in competitive funding, ensuring 100% compliance with strategic milestones.
- Spearheading high-level talent development by mentoring and supervising Ph.D. candidates and multidisciplinary teams, fostering a culture of scientific excellence.
- Translating complex neuroscience research goals into actionable project milestones, ensuring efficient allocation of resources and achievement of KPIs.
- Teaching neuroscience, pharmacology and bioinformatics to under and graduate students.

Assistant Professor | Universidad Autónoma de Chile | 2018 – 2021

- Delivered high-level scientific lectures and led academic seminars within the Faculty of Health Sciences.
- Focused on translating complex pharmacological concepts for diverse audiences while contributing to the university's research ecosystem through collaborative projects.

POSTDOCTORAL TRAINING & INTERNATIONAL EXPERIENCE

- **Postdoctoral Fellow | Worcester Polytechnic Institute, MA, USA** (Dr. José Argüello Lab) | 2017 – 2018
 - Led international research on protein-metal interactions, managing advanced biochemical assays and high-performance computational modeling.
 - Spearheaded strategic collaborations with the private sector for the R&D of novel antimicrobial agents, linking academic discovery with industrial application.
- **Postdoctoral Fellow | Universidad de Talca, Chile** (Dra. Wendy González Lab) | 2016 – 2017
 - Executed advanced molecular dynamics simulations and bioinformatics analysis to support drug discovery projects targeting ion channels within the Center for Bioinformatics and Molecular Simulation (CBSM).

EDUCATION

- **Mg. Artificial Intelligence and Big Data** | Universidad Isabel I, Spain | 2023
- **Ph.D. in Applied Sciences** | Universidad de Talca, Chile | 2016
- **B.Sc. in Pharmaceutical Chemistry** | Universidad Nacional de Colombia | 2012
- **B.Sc. in Chemistry** | Universidad Distrital Francisco José de Caldas, Colombia | 2009

SCIENTIFIC IMPACT & STRATEGIC PUBLICATIONS

Author of over 65 peer-reviewed articles in high-impact journals (+45 in neuroscience field), including Nature, Proceedings of the National Academy of Sciences of the United States of America (PNAS), Journal of Medicinal Chemistry (JMC) and the Journal of Chemical Information and Modeling (JCIM), with more than 2,800 citations. Research focused on the intersection of AI-driven drug design and clinical data analytics, contributing to the discovery of novel therapeutic modulators for neurodegenerative diseases. Recognized in the Top 2% of most-cited scientists globally (2025 Stanford University study), demonstrating a consistent track record of delivering rigorous, data-driven scientific advancements to the global healthcare community.

Google Scholar profile – publication list: <https://scholar.google.es/citations?user=KGfUQsYAAAAJ&hl=es>; h-index 25; i10 index 43

LEADERSHIP & STRATEGIC NETWORKING

President | Chilean Society of Bioinformatics (SCB) <https://www.scbioinfo.cl/> | 2025 – Present

- Elected to lead the national scientific body, overseeing strategic initiatives to promote bioinformatics and computational biology at a regional and international level.
- Industry-Academia Bridge: Spearheading the creation of networking frameworks between academic researchers and the Pharmaceutical and Healthcare sectors, facilitating knowledge transfer and collaborative R&D projects.
- Stakeholder Engagement: Acting as the primary liaison with government agencies, private companies, and international scientific societies to drive the digital transformation of life sciences in the region.
- Strategic Vision: Managing the organization of large-scale scientific congresses and workshops, focusing on the integration of AI and Big Data into clinical and industrial workflows.

Member | Chilean Society of Pharmacology (SOFARCHI) <https://www.sofarchi.cl/> | 2021 – Present

AWARDS AND HONORS

- 2025: Top 2% most cited Scientist (position 148.630) in 2025 according to the Ranking of the World's Top 2% Scientists, Ioannidis, John P.A. (2025), "August 2025 data-update for "Updated science-wide author databases of standardized citation indicators"", Elsevier Data Repository, V8, DOI: <https://doi.org/10.17632/btchxktzyw.8>.
- 2023: The European Federation for Medicinal Chemistry Travel Grant (\$500 EUR) for the excellence and innovation of the work presented on the EUROPIN – Vienna Summer School on Drug Design, Universität Wien.
- 2023: Beca Organización de Estados Americanos (OEA)-STRUCTURALIA para realizar Magíster en Inteligencia Artificial y Big Data.
- 2022: Top 2% most cited Scientist (position 332.071) in 2022 according to the Stanford University study published in Plos Biology. Ioannidis JPA, Boyack KW, Baas J (2020) Updated science-wide author databases of standardized citation indicators. PLoS Biol 18(10): e3000918. DOI: <https://doi.org/10.1371/journal.pbio.3000918>.

SCIENTIFIC COMMUNICATION & GLOBAL SPEAKING

Keynote & Invited Speaker | International Expert

- **Exceptional Oral Communication:** Leveraging a professional background as an Associate Professor, I possess advanced pedagogical skills to translate high-level scientific data into clear, actionable, and engaging presentations for diverse audiences (KOLs, medical boards, and R&D teams), 30+ lectures as keynote speaker.
- **Multilingual Proficiency:** Proven ability to deliver technical lectures and lead strategic discussions with equal fluency in both English and Spanish, facilitating global scientific exchange.
- **International Track Record:** Invited to present cutting-edge research at premier global forums, demonstrating leadership and authority in the fields of Pharmacology and AI-driven Drug Design.

Selected International Engagements:

- **ARO 49th Annual Midwinter Meeting (2026):** Featured speaker on auditory research and molecular pharmacology.
- **Biophysical Society Annual Meeting (2025):** Oral presentation on membrane proteins and ion channel dynamics.
- **EUROPIN – Vienna Summer School on Drug Design (2023):** Guest lecturer and specialist in computational pharmacoinformatics.
- **Sociedad Argentina de Farmacología Experimental:** Invited speaker on innovation in drug discovery and AI applications.

LANGUAGES & INTERNATIONAL COMMUNICATION

English: Full Professional Proficiency (Bilingual)

Spanish: Native Speaker