JAVIER ARRANZ HERRERO, PHD

Madrid, Spain
(+34) 655653445 | j.arranzherrero@gmail.com
https://www.linkedin.com/in/javier-arranz-herrero-415561184/

LANGUAGES

Spanish (Native)
English (Advanced).

PROFESSIONAL SUMMARY

- PhD scientist with +4 years of experience in research in **Microbiology and Virology**, with a particular focus on **Computational biology (Bioinformatics)** and **Next Generation Sequencing (NGS)**.
- Master in computational biology
- Postgraduate Certificate in **Business of Biotechnology** by the Graham School of the University of Chicago.

EDUCATION

UNIVERSIDAD SAN PABLO CEU   **MADRID, SPAIN**
PhD in Science and Health Technologies (CUM LAUDE)   NOVEMBER. 2020– MARCH. 2025
- Doctoral Internship at **Icahn School of Medicine at Mount Sinai**

UNIVERSIDAD POLITÉCNICA DE MADRID   **MADRID, SPAIN**
Master in Computational Biology   OCTOBER. 2019– OCTOBER. 2020

GRAHAM SCHOOL (UNIVERSITY OF CHICAGO)   **MADRID, SPAIN**
Business of Biotechnology   MARCH. 2019– AUGUST. 2019

UNIVERSIDAD SAN PABLO CEU   **MADRID, SPAIN**
Biotechnology (Bilingual)   SEPTMBER. 2015– MARCH. 2019

PROFESSIONAL EXPERIENCE

INSTITUTO DE SALUD CARLOS III – PFIS PREDOCTORAL GRANT   **MADRID, SPAIN**
Pre-doctoral Researcher   AUGUST. 2021– CURRENT
- Simultaneously led multiple projects, leading +5 of them and collaborating in +10 side projects.
- Optimized **RNA-seq and bacterial WGS/metagenomics pipelines**, developing **Shiny-based reporting tools** in **R** for rapid analysis, and **html reports** for data sharing.
- Applied **bioinformatics to drug discovery**, protein structure analysis, and conducted **two meta-analyses** on Real-World Evidence for influenza, vaccination, incidence, and prevalence.

ICAHN SCHOOL OF MEDICINE AT MOUNT SINAI   **NEW YORK, USA**
Visiting Researcher   APRIL. 2023– JULY. 2019
- Designed and developed a mouse *In vivo* model of Coinfection and Superinfection with Influenza virus and *Streptococcus pneumoniae.*

INTERN AT POLSKY CENTER FOR ENTREPRENEURSHIP AND INNOVATION   **CHICAGO, USA**
Intern at the Technology Transfer Office   MAY. 2019– AUGUST. 2019
- Evaluated and transformed innovative ideas into marketable products, assessing their commercial potential and development strategy

HIGHLIGHTS

- Proficiency in Linux, Bash, **R and R shiny programming** languages in **NGS bioinformatic analysis**. Experienced in **Python** and **Ruby** for bioinformatics applications.
- Expert in **Oxford Nanopore MinION technology**, from laboratory setup and library preparation to sequencing, data analysis, and reporting.
- **Set up** a sequencing and bioinformatics service, providing **external NGS data analysis** solutions for research groups.
- Developed **R code pipelines** for bacterial **whole-genome sequencing (WGS), RNA-Seq, ATAC-Seq and metagenomics analysis**, enabling fast in-house sequencing and data processing.

PUBLICATIONS

- I have **published 6 indexed manuscripts** according to PubMed. All of them belong to the Q1 percentile of their fields according to Scopus and have been cited 28 times (h-index of 3).
- https://pubmed.ncbi.nlm.nih.gov/?term=Arranz-Herrero+J

MAIN SKILLS

- Data Management, Linux and R programming, R Shiny reports, Python, Ruby, NGS and Proteomic analysis, Meta-analysis, High laboratory experience, Oral and Written communication skills