Nicolás Palopoli

Researcher in
Computational Biology

Teacher and Mentor

Community Leader

Contact & Social

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Selected skills

Design and execution
of research projects

Open Science practices

Coding in Python, R, shell,
git, markdown

Data wrangling, analysis,
and visualization

Management of
organizations and
professional networks

Science communication

Offline and online,
formal and non-formal
education

Languages

Spanish (native),
English (advanced),
Italian, Portuguese (basic)

Tenured researcher with 16 years of experience in Computational Biology, studying protein structure, interactions, and evolution. Open Science learner and advocate. Educator, specialized in active and evidence-based practices for teaching. Talent for leading workgroups guided by empathy, mentoring, and collaboration. Successfully created and managed research projects and communities of practice at the national and international levels.

Selected Professional Experience

2020 - **Co-Executive Director**
MetaDocencia. A non-profit community that builds scientific and technical capacities in Latin America by co-developing networks, active learning spaces, and accessible resources.

2015 - **Tenured Associate/Adjunct Researcher**
Consejo Nacional de Investigaciones Científicas y Técnicas (CONICET) - Buenos Aires, Argentina.

- **Project leader** at Structural Bioinformatics Group, Departamento de Ciencia y Tecnología, Universidad Nacional de Quilmes (UNQ). Group Leader: Dr. G. Parisi.
- **Visiting researcher** at EMBL (Germany), UCD (Ireland), and CABD (Spain), among others.
- **Director** of 2 grants from *Ministerio de Ciencia, Tecnología e Innovación* of Argentina (MinCyT). **Co-director** of 1 grant from UNQ. **Researcher** in 2 grants from CONICET and 2 from Horizon 2020 MSCA-RISE by the European Union.
- **Director/co-director** of 4 undergraduate thesis, 1 master thesis, 3 PhD candidates, and 2 postdoctoral researchers.

2012 - 2014 **Postdoctoral Researcher**
University of Southampton, UK. Integrated in silico prediction of protein interaction motifs using interactome networks and high-resolution 3-dimensional structures. Director: R. J. Edwards, PhD. Funded by BBSRC, UK.

2011 - 2012 **Postdoctoral Researcher**
Universidad de Buenos Aires, Argentina. PhasIbeAm, a multi-national consortium for sequencing of the common bean genome. Leader: Dr. A. N. Mentaberry. Funded by MinCyT.

2006 - 2011 **PhD candidate**
UNQ & CONICET, Argentina. Development of a method for the validation of protein tertiary structure based on evolutionary information and its application to characterize starch synthases. Director: Dr. G. Parisi. Funded by MinCyT and CONICET.

Publications and Presentations

2006 -
- **Author** of 37 published articles, 28 peer-reviewed in 1st quartile journals. See *ORCID*: 0000-0001-7925-6436.

2006 -
- **Invited speaker** and **co-author** of posters or papers in 56 national and global research conferences.

2021 -
2018
- **Curator** of data for the *DisProt* database of intrinsically disordered proteins. See *APICURON* profile.

2021
- **Co-author** and **co-editor** of the book *Vida.exe – Desafíos y aventuras de la Bioinformática*. Published by *FCE*.

2015
- **Speaker** at Night of the Museums, Instituto Leloir.

2005
- **Co-author** of the book *Demoliendo Papers – La trastienda de las publicaciones científicas*. Published by *Siglo XXI*.

Teaching

2014 -
- **Assistant Professor** in Bioinformatics. University degree (*Licenciatura*) in Biotechnology, UNQ.

2007 -
- **Teacher and Instructor** in 25 postgraduate, offline or online courses to teach skills in Bioinformatics, programming or education, at UNQ, Universidad Nacional de San Martín, Universidad Favaloro (UF), Universidad Católica de las Misiones, Pontificia Universidad Católica del Perú, CABD, Argentine Association of Bioinformatics and Computational Biology (A2B2C), The Carpentries, and MetaDocencia.

2015 -
2018
- **Professor** in Bioinformatics. *Licenciatura* (University Degree) in Biological Sciences, UF.

2008 -
2012
- **Assistant Professor** in Physical Chemistry. *Licenciatura* in Biotechnology, UNQ.

Community Experience

2024 -
- **Governance Commitee member** at OLS.

2023 -
- **Nominations and Elections Committee member** at DRYAD.

2023 -
- **Steering Committee member** at ReSA.

2022
- **Mentor** at the Open Seeds Cohort 8 from OLS.

2017 -
- **Secretary** of A2B2C. Led general planning and organization of seminars and courses.

2021 -
- **Curriculum Committee** member at the *Licenciatura* in Bioinformatics, UNQ. Curriculum update. Tutor.

2020 -
- **Interinstitutional Academic Committee member** at the Masters in Bioinformatics and Systems Biology, UNQ and *Universidad Nacional del Noroeste de la Provincia de Buenos Aires* (UNNOBA). Career accreditation. Evaluation of thesis proposals.

2016 -
2019
- **Core team member** of the outreach project Bioinformatics goes to school, which aims to teach programming and biology to educators and students in secondary schools.

2012 -
2019
- **Co-founder and Faculty Advisor** of Regional Student Group Argentina (RSG-Argentina), affiliated to the ISCB Student Council. Organization of courses and workshops.

Gold medal to academic merit 2005, UNQ

1st place in UNQ + Banco Río 2005 Prize to Technological Innovation

14 grants and fellowships to participate in international courses and congresses

Invited chair or reviewer for several annual meetings of the Argentine Association of Bioinformatics and Computational Biology

Editorial & Evaluation Experience

- **Editorial Board Member**, PLOS Global Public Health.
2023 -
- **Review Editor** for the Protein Bioinformatics section of the journal Frontiers in Bioinformatics.
2021 -
- **Invited Editor** to the Intrinsically Disordered Proteins Working Group of the HUPO Proteomics Standards Initiative.
2019 -
- **Reviewer** for 6 international journals, 9 national research grant calls, and 9 scientific conference calls for abstracts.
2016 -
- **Evaluation/Mentoring committee member** for 8 undergraduate or postgraduate theses.
2016 -

Selected Education

2006 -
2011
Doctor (PhD) in Basic and Applied Sciences
UNQ, Argentina

2001 -
2005
Licenciado (University degree) in Biotechnology
UNQ, Argentina

2021 -
Specialist in Teaching in Virtual Environments
UNQ, Argentina

Short format training courses
2024
- **Open Science Badge** earned by completing Open Science 101 by NASA's Transform to Open Science initiative.
2018
- **Certified Trainer and Instructor** by The Carpentries.
2022 -
2012
- **19 professional training courses** on specific topics in Bioinformatics, computational skills, and education.
2011 -
2006
- **10 postgraduate graded courses** approved, on general or specific topics in Bioinformatics or programming.