

Julieta C. Arancio

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📍 Based in Geneva, Switzerland
➔ Open to relocate

I'm a **researcher** in Science and Technology Studies, a **mentor** for open technology projects, an **open curriculum designer** and an **advocate** for democratization of science and technology.

My professional journey combines academic work and advocacy. Working in research collaborations has allowed me to develop **autonomy** while embedded in a deeply **interdisciplinary environment**. In addition to **volunteering**, I also develop and implement projects using open technologies, where I demonstrate my **leadership** and **management** skills.

EDUCATION

PHD IN SCIENCE AND TECHNOLOGY STUDIES

2016-2020 (expected)

Universidad Nacional de Quilmes, Buenos Aires, Argentina (CONICET)

BACHELOR'S DEGREE IN ENVIRONMENTAL SCIENCES (HONOURS)

2005-2011

Universidad de Buenos Aires, Argentina

EXPERIENCE

OPEN HARDWARE LEADERS

September 2019 - present

Co-founder of global mentorship programme for open hardware projects - Curriculum design, project management and communications.

WIKIMEDIA FOUNDATION: SWISS CHAPTER

July 2019 - present

Designer and instructor of Wikidata workshops at EPFL aimed at undergrad students - Design of Swiss Wikidata education curriculum (currently in evaluation)

LOGAIR: CROWDMAPPING AIR QUALITY

August 2019 - present

Co-founder of Geneva-based association - General strategy, fundraising and technical tasks related to data analysis.

LATIN AMERICAN NETWORK OF FREE/LIBRE TECHNOLOGIES FOR EDUCATION AND RESEARCH

June 2019 - present

Coordinator of Buenos Aires node - Network strategy, node coordination tasks and regional event co-organizer.

GENEVA-TSINGHUA INITIATIVE, UNIVERSITY OF GENEVA

July-September 2018

Mentor of Master's students' projects addressing the SDGs with a focus on challenge-based learning, community building and management of open source projects.

CENTER OF RESEARCH FOR TRANSFORMATION (CENIT/UNSAM) - STEPSCentre LATIN AMERICA HUB

2015-present

Doctoral researcher (2016-). Collaborator in '*Open, Collaborative and Alternative Science: overcoming health, inclusion and environmental challenges in Argentina*' (2015-2016) funded by the International Development Research Centre, Canada (OCSDnet).

GRUPO EMEPA S.A

2013-2015

Responsible for design, implementation and control of the Environmental Management Plan for the main railroad infrastructure works, Buenos Aires-Rosario. Trainer in Environment, Health and Safety matters for on-site personnel.

ORGANIZATION OF AMERICAN STATES (OEA) - NATIONAL SUSTAINABLE DEVELOPMENT AGENCY OF ARGENTINA (SAYDS)

2012-2013

Junior research assistant for the project '*Framework Program for the sustainable management of water resources in the River Plate Basin*'

BENITO ROGGIO E HIJOS S.A.

2011-2013

Environmental management system (ISO14001) coordinator for large civil engineering projects in Argentina.

NATIONAL ATOMIC ENERGY COMMISSION OF ARGENTINA (CNEA)

2010-2011

Bachelor's thesis internship: Sediment quality assessment for the middle-section of Reconquista River basin, Buenos Aires.

IBM ARGENTINA

2008-2010

Responsible for Panasonic North America account - Coordination of technicians at IBM sites (Argentina, Brazil, India). Documentation management, ISO9001 compliance, development of training material and workshops on-site (USA).

AGRONOMY COLLEGE - UNIVERSITY OF BUENOS AIRES

2006-2010

Ad-honorem assistant at the university's laboratories for edaphology and analytical chemistry.

CONFERENCES AND WORKSHOPS

Doctoral Consortium - OpenSym (2019, University of Skovde, Sweden) - Presenting author

Global Open Science Hardware gathering (2018, Shenzhen, China) - Member of organizing committee

Mozilla Festival (2018, London) - Presenting author

OpenCon Swiss (2018, Bern) - Speaker

Tech4Dev (2018, Lausanne) - Presenting author

TECNOx (2018, Chile) - Speaker

Software Carpentry @R'lyeh Hacklab (2018, Buenos Aires) - Organizer

OpenCon 2017 (2017, Berlin) - Assistant and session organizer

1st Workshop Argentino de Ciencia Abierta (2017, Argentina) - Member of organizing committee

1st MSF Scientific Day América Latina (2017, Argentina) - Invited speaker

Introduction to Open Science at CICTERRA/CONICET (2017, Argentina) - Organizer

Jornadas de Producción Abierta y Colaborativa STEPS (2016, Argentina) - Organizer

FUNDING RECEIVED

GENEVA CITY INNOVATION PROGRAM (2019)

CHF 36000: LogAir - project funding for development of one-year pilot

SHUTTLEWORTH FOUNDATION (2020)

USD 5000: personal flash grant

MOZILLA SCIENCE MINI-GRANTS (2018)

USD 5000: funding for ETER, a community science initiative to build low-cost air quality monitors in class with teachers, in Argentina

NATIONAL SCIENCE AND RESEARCH COUNCIL OF ARGENTINA (2016)

Five-year PhD grant

TECH4DEV (2018)

Full scholarship for presenting at conference in Lausanne, Switzerland

OPENCON (2017)

Full scholarship for attending conference in Berlin, Germany

GLOBAL OPEN SOURCE HARDWARE GATHERING (2017)

Full scholarship for attending conference in Santiago, Chile

STEPS CENTRE SUMMER SCHOOL (2016)

Full scholarship for attending a two-week summer school on sustainability and science policy in Brighton, UK

VOLUNTARY PROJECTS - ADVOCACY

GOSH COMMUNITY (2018-today)

Co-organizer of global gathering 2018 at Shenzhen, China

R'LYEH HACKLAB (2017-2018)

Member of organizing committee of a community hackerspace in Buenos Aires, Argentina

ETER PROJECT (2017-2018)

Leader of community science and education project for building air quality monitors with school teachers of Buenos Aires, Argentina

MUGRE (2017-2018)

Co-producer and host of weekly radio programme on Science and Technology divulgation

PUEBLO A PUEBLO (2015-2017)

Volunteer at a local initiative connecting agroecological producers and consumers

'VAMOS LOS PIBES' (2015)

Clarinet and Flute teacher at a local voluntary orchestra for kids from low-income neighbourhoods (6-12 years old)

ACADEMIC WRITING

- Arancio, J. 'Open science hardware: towards more democratic science and technology in Latin America?' Proceedings of 15th International Symposium on Open Collaboration, University of Skövde, 2019.
- Arancio, J.; Molloy, J. 'The Global Open Science Hardware Roadmap: A Collaborative Effort towards Democratizing Science Hardware', extended abstract for Tech4Dev Conference 2018 - UNESCO/EPFL (Lausanne, SZ)
- Arancio, J.; Sebastian, S.; Schwertz-Weirich, A.; Actis, G.; Cremaschi, A.; Arancibia, F.; Van Zwanenberg, P.; Fressoli, M. 'Relato de experiencia - Workshop internacional de desarrollo abierto y colaborativo' in Liinc Em Revista, 2018
- Arancio, J.; Cicerone, D. (dir.); Ratto de Miguez, S. "Evaluación de calidad de sedimentos en la cuenca media del Río Reconquista, provincia de Buenos Aires". Bachelor's degree thesis, 2011.

NON-ACADEMIC WRITING

- Arancio, J. 'GOSH Roadmap: democratizing technology, from a Latin American perspective', in STEPS Centre Blog, 2018
- Arancio, J. 'GOSH Roadmap, o el intento de democratizar las herramientas científicas', in STEPS América Latina Blog, 2018
- Arancio, J. 'OpenCon 2017: Des-idealizando lo abierto para una mejor apertura' in PlanC blog, 2018

- Arancio, J. 'OpenCon 2017: Reflections from a GOSHer' in GOSH blog, 2017
- Arancio, J.; Fressoli, M.; Arza, V. 'Agroecology meets open source technologies' in OCSDnet Blog, 2016
- Arancio, J.; Fressoli, M.; Arza, V. 'Datos abiertos y Hardware libre: Hacia una agroecología siglo XXI' in STEPS America Latina Blog, 2016

SKILLS

Research and education - Research design: single and multiple-case studies - Data collection: Semi-structured interviews, surveys - Quantitative analysis, Qualitative analysis with CAQDAS - Writing and editing of technical and non-technical materials - Curriculum design, facilitation and evaluation

Management and soft skills

- Project management, strategic planning - Leadership and delegation - International projects coordination - Team building and communication - Mentoring

Digital fabrication software and tools

- CAD/Design: Inkscape, FreeCAD, Blender - basic level
- Electronics design: Fritzing, KiCAD - basic level
- Electronics: Arduino, microBIT, esp8266 boards - basic level
- Soldering, laser cutting and 3D printers operation

Software skills and programming languages

- Web development: HTML, CSS and JS, Python Flask - Intermediate level
- Data analysis and visualization: Python - Intermediate level
- Microcontroller programming: C++ (Arduino-flavoured), microPython - Basic level
- Version control software and platforms: git, GitHub, GitLab
- Open Science tools: Jupyter Notebooks, Binder

LANGUAGES

- Spanish - native
- English - bilingual proficiency
- French - basic oral and written proficiency (A2)