

# JULIETA ARANCIO

## SUMMARY

I am a researcher in Science and Technology Studies, an advocate for democratization of science and technology and a mentor for open hardware projects.

You will usually find me in roles of translation between different kinds of expertise, in projects at the crossroads of technology, sustainability, science and education.

## LANGUAGES

I speak Spanish (native), English (bilingual), French (A2) and some Portuguese.

## CONTACT



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## EDUCATION

### PHD IN SCIENCE AND TECHNOLOGY STUDIES

*Universidad Nacional de Quilmes (2021)*

My thesis (*outstanding 10 with recommendation for publication*) is titled "*Technologies from dialogues: Open science hardware and democratization in the 'periphéria'*" and is available in Spanish at the UNQ online repository.

### LIC. IN ENVIRONMENTAL SCIENCE

*Universidad de Buenos Aires (2011)*

5-year degree at Agronomy College, orientation technology. My thesis was titled "*Quality assessment of sediments of the Reconquista River (Buenos Aires), with emphasis in heavy metals*" and is available in Spanish at the FAUBA online repository.

## EXPERIENCE

### ASSOCIATE RESEARCHER (2015-PRESENT)

*CENIT - STEPS Hub Latin America*

Doctoral researcher (2016-2021). 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).

### LEAD AUTHOR (MARCH 2021-PRESENT)

*Woodrow Wilson International Center for Scholars*

Lead researcher and writer of a white paper seeking to understand the value of low cost and open source hardware for scientific research.

### WRITER (FEB 2021-PRESENT)

*Global Open Science Hardware Movement*

Coordinate the drafting of workshop reports and a policy brief targeting universities' technology transfer offices

### EDITOR (2020-PRESENT)

*Journal of Open Hardware*

Member of the Editorial Board of the Journal of Open Hardware (JOH), a peer reviewed open access publication for open hardware research and development.

### CONSULTANT (2020-PRESENT)

*Appropedia Foundation*

Consultation services for a project in partnership with Intuitive Foundation (US), on the design and implementation of an ontology for remote learning of medical skills.

### MENTOR FOR SDG PROJECTS (JUL-SEP 2018)

*Geneva-Tsinghua Initiative, University of Geneva*

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

## SKILLS

### RESEARCH

Conducting interviews, facilitating sessions with multiple stakeholders, collecting and analyzing big volumes of qualitative data, writing and editing of scientific materials.

### COMMUNICATIONS

Public speaking, writing for technical, informed and general audiences, basic audio and video editing, radio production, educational game design for virtual sessions.

### SOFT SKILLS

Project management, problem-solving, conflict management, mentoring, fundraising, collaborative work, international events organization.

### TECHNICAL

Version control tools (git/GitHub/GitLab), basic web development (HTML, CSS, JS), Python and R scripts for data analysis, linked data ontology design using Protegé, operation of digital fabrication tools and programming of educational boards like Arduino, ESP32 or microBIT.

## **ONGOING PROJECTS**

### **OPEN HARDWARE MAKERS**

*openhardware.space*

Co-founder (2019) of a global mentorship program for open hardware projects. General strategy, project management, curriculum design and communications. I led a global consultation for improving our curriculum with the open hardware community.

### **REGOSH**

*regosh.libres.cc*

Co-founder (2017) of the network, ex-coordinator of Buenos Aires node, in charge of the strategy working group. I co-organized a regional residency in 2019, having previously co-organized a Global Open Science Hardware (GOSH) event in Shenzhen, China, in 2018.

## **FUNDING RECEIVED**

### **ALFRED P. SLOAN FOUNDATION (2021-2023)**

Postdoctoral funding (USD 220,000) for two years at Drexel University, under supervision of Asoc. Prof. Gwen Ottinger

### **MOZILLA FOUNDATION (2020)**

Personal grant (USD 12,000) to advance community building

### **SHUTTLEWORTH FOUNDATION (2020)**

Personal grant (USD 5,000) to advance project LogAir

### **NATIONAL SCIENCE AND RESEARCH COUNCIL OF ARGENTINA (2016)**

Full 5-years scholarship for pursuing my PhD

## **ACADEMIC WRITING**

Arancio, J.; Arza, V.; Fressoli, M. (2020, August 18-21) *Opening Tools For Opening Science: Lessons From Global Open Science Hardware Initiatives In Africa And Latin America*, 4S/EASST Conference 2020 - Prague, Czech Republic (Virtual)

Arancio, J. C. (2020, July 17). *Opening Up The Tools For Doing Science: The Case Of The Global Open Science Hardware Movement*. SocArXiv <https://doi.org/10.31235>

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 <https://doi.org/10.18617/liinc.v14i1.4132>

## **NON-ACADEMIC WRITING**

Arancio, J. 'Open Science Hardware contributes to aligning the research agenda with societal needs', in Journal of Open Hardware Blog, 2020

Dosemagen, S; Arancio, J. 'Open Hardware Distribution & Documentation Working Group series', in Journal of Open Hardware Blog, 2020

Arancio, J. 'Open science hardware across the Andes' in GOSH blog, 2018

Arancio, J. 'GOSH Roadmap: democratizing technology, from a Latin American perspective', in STEPS Centre Blog, 2018

Arancio, J. 'OpenCon 2017: Des-idealizando lo abierto para una mejor apertura' in PlanC blog, 2018

Arancio, J.; Fressoli, M.; Arza, V. 'Agroecology meets open source technologies' in OCSDnet Blog, 2016

## **CONFERENCES & WORKSHOPS**

STS Switzerland 2021 Conference (15-17 February 2021, Virtual) - Presenting author

4S/EASST Conference (18-20 August 2020, Virtual) - Presenting author

Doctoral Consortium - OpenSym (2019, Sweden) - Presenting author

Global Open Science Hardware gathering (2018, China) - Organizing committee

Mozilla Festival (2018, London) - Presenting author

OpenCon Swiss (2018, Bern) - Speaker

Tech4Dev (2018, Lausanne) - Presenting author

TECNOx (2018, Chile) - Speaker