

Curriculum Vitae

Filipe Oliveira da Silva, 1987 – Brazilian.

Address: Otahuja 3C 39, 02150 Espoo. **Portfolio:** <https://bit.ly/33b4XuK/> **Phone number:** +358 44 974 7093.

I am a biologist with more than 6 years experience of work doing high-quality science research in renowned institutions such as Harvard University and the University of Helsinki. In 2018, I published in Nature - the world's leading science journal. In the last 3 years, I have focused in making science and technology accessible to everyone. I designed low-cost workshops, books and outreach projects for museums, private sector and NGOs. I have experience supporting kids and youngsters to develop their creative ideas using analogical and digital technologies, scientific method and sustainability.

Work experience:

- **2018–2019** / Head of Biomaker in the [Educational System ELEVA](#).
- **2017–2019** / Science Director in the social micro-business [Connecting Science](#).
- **2013–2016** / Researcher Level III at the [Institute of Biotechnology / University of Helsinki](#).

Education:

- **2010-2012** / Joint Master's of Science at [Uppsala University](#) and [LMU – Munich](#).
- **2012** / Visiting researcher at [Harvard University](#).
- **2005-2010** / Bachelor of Science at [Federal University of Viçosa](#).

Prize:

- **2019:** Finnish Society for Developmental Biology – best scientific paper published in 2018.

Design of science and technology workshops:

- **2019** / [Museum of Tomorrow](#) (Most-visited museum in South America).
- **2018** / [Catavento Museum](#) (Most-visited science museum in São Paulo);
- **2018** / [Artbio Brasil Gallery](#) (Non-profit Organization for Sciart);
- **2017-2019** / [SESC São Paulo](#) (Non-profit organization / Units: Av. Paulista, Santana, Pompeia and Carmo).
- **2018** / [SESC Rio de Janeiro](#) (Non-profit organization / Unit: Madureira);
- **2017** / [SBPC – Brazilian Society for the Progress of Science](#) (Main scientific society in Brazil).

Consultant:

- **2019** / Development of the curriculum, content and activities for 5 books with STEM activities ([TEC](#)).
- **2019** / Writing of a report on DIYbio-Biohacking for the [Brazilian Social Services for Industry \(SESI\)](#).

Science communication and outreach projects:

- 2019 / [Microzonia](#): Science communication project for the general public and workshop for teachers about the biodiversity and cultural diversity in the Amazon forest produced after my research expedition in the Amazon.
- 2017 / [The Invisible World](#): Citizen Science project in which children from a non-profit organization in Bahia learned about the scientific culture and the scientific method applied to environmental projects.
- 2017 / [Makers in the Brazilian schools](#): Science and technology course for teachers and students in a public school in Bahia that included low-tech and high-tech, Arduino and AppInventor.

Recent talks on the democratization of science and technology:

- 2019 / [MIT Media lab – Bio Summit](#). Panel: 21st Century Education.
- 2019 / [Campus Party Brazil](#). Talk: Biohacker education.

Peer-reviewed scientific publications:

- 2018 / Filipe Oliveira da Silva, Fabre A-C, Savriama Y, Ollonen J, Mahlow K, Herrel A, Müller J, Di-Poï N. The ecological origin of snakes as revealed by skull evolution. [Nature Communications 9, Article number: 376.](#)
- 2018 / Ollonen J, Da Silva FO, Mahlow K, Di-Poï N. Skull Development, Ossification Pattern, and Adult Shape in the Emerging Lizard Model Organism *Pogona vitticeps*: A Comparative Analysis. [Front. Physiol., 9:278.](#)
- 2010 / Lopes DM, Filipe Oliveira da Silva, Fernandes-Salomão TM, Campos LAO, Tavares MG. A scientific note on the characterization of microsatellite loci for *Melipona mondury*. [Apidologie, 41: 138-140.](#)
- 2009 / Lopes DM, Filipe Oliveira da Silva, Fernandes-Salomão TM, Campos LAO, Tavares MG. Microsatellite loci for the stingless bee *Melipona rufiventris*. [Molecular Ecology Resources, 9\(3\): 923-925.](#)

Sci-art projects:

- 2018 / [DIY Microscope lab](#): Sciart project and exhibit done with pictures from a low-cost microscope that was built by students from 4 public schools that educate children and youngsters from underprivileged regions in Rio.
- 2018 / Digital Biohacking: co-design of a sciart installation at Front Media Lab that demonstrated to the public the microbiological diversity that contributes to human identities using an electronic and programmed Petri dish.

Use and development of educational technologies:

- Maker: 3D printing, laser-cutting and paper engineering.
- Hacker: basic electronics and Arduino
- Biomaker: biotechnologies and kitchen science.
- Sustainability: low-tech and high-tech with reused e-residuals and plastic.

Media:

- **Examples:** [Museum of tomorrow](#) / [Fapesp Magazine](#) / [BBC Brazil](#) / [Porvir magazine](#).