Curriculum Vitae

Rodolfo Cossovich

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EDUCATION

Ph.D. in Information Technology (2026 ABD)
Creative Interactions Lab, Carleton University, Canada

Master of Fine Arts (2020)
University of Plymouth via Transart Research Institute, United Kingdom

BSc and Msc. in Electronics (2004)
Escuela Superior Técnica del Ejército, Argentina

ACADEMIC EXPERIENCE

NYU Shanghai (Shanghai, August 2020 – current) Assistant Arts Professor

OCAD University (Toronto, August 2024 – December 2024) Contract Instructor

Carleton University (Ottawa, May 2023 – December 2023) Contract Instructor

ITP MA Low Res (Online, January 2020 – January 2023) Contract Instructor

NYU Shanghai (Shanghai, August 2015 – August 2020) Clinical Instructor

NYU Shanghai (Shanghai, August 2014 - August 2015) Adjunct Instructor

Make For Kids (Shanghai, July 2012 – August 2015) Curriculum Developer

TECHNICAL WORK EXPERIENCE

MustardTek (Shanghai, 2021 – present) [Link] Co-Founder & CIO. We trained people with disabilities and high school students in design, education, and prototyping. We were awarded in 2023 with the Microsoft AI4Accessibility Grant ($125k).

Plobot (Hong Kong, 2015 – 2019) [Link] Co-Founder & CEO. We developed a physical programming toy for kids aged 4+. We attracted investment from MiLa Capital ($150k), Kickstarter Crowdfunding ($40k), and private funds ($350k).

Multiplo LLC (U.S.A., 2012 – 2015) [Link] Co-founder and CEO. We developed and commercialized an educational robot platform. We secured funding from Kickstarter Crowdfunding ($130k) and received a grant from Argentina's Ministry of Education ($600k).

ITResources (China, 2009 – 2011) [Link] As a Web Architect, I designed back and frontends for internet products, like eCommerce platforms and social networking sites. I introduced the team to open-source toolchains based on CentOS Linux.

ECAMEC (Argentina, 2006 – 2008) [Link] As a Senior Designer, I led the research and development of several consumer electronic products, including power-quality instruments for transmission lines.

EOLUX - Giacobone (Argentina, 2002 – 2008) [Link] As part of the Research and Development team, I led the design and development of wind power-related products, including a programmable battery charger of 32A at 500V and a power inverter of 5kW.

CITEFA (Argentina, 1999 – 2002) [Link] As a junior researcher, I built a low-cost amplifier of high bandwidth and ultra-low noise to read LIDAR ionospheric reflections.

FIRST AUTHOR ACADEMIC PUBLICATIONS (SELECTED)

Cossovich, R., Wu, S. & Girouard, A. (2026 - conditionally accepted). **"Why would you persist through the pain?'' Understanding Pen-Based Gestures for Artists Living with Upper Limb Motor Impairments.** In *Proceedings of the 20th International Conference on Tangible Embedded and Embodied Interaction* (TEI '26), Chicago, USA. [Pre-print]

Cossovich, R., Wu, S. & Girouard, A. (2024). **"I tried everything. Nothing works": Challenges and Creative Processes from Digital Artists with Upper Limb Motor Impairments.** In *Proceedings of the 26th International ACM SIGACCESS Conference on Computers and Accessibility* (ASSETS '24), New York, USA. https://doi.org/10.1145/3663548.3675654

Cossovich, R., Chang, M., Fu, Z., Hodges, S.. & Girouard, A. (2024). **Co-designing Accessible Computer and Smartphone Inputs Using Physical Computing.** IEEE Pervasive Computing 23, 3 (pp. 39-48). https://dl.acm.org/doi/abs/10.1109/MPRV.2024.3418899

Cossovich, R., Hodges, S., Kang, J. & Girouard, A. (2023). **Co-designing new keyboard and mouse solutions with people living with motor impairments.** In *Proceedings of the 25th International ACM SIGACCESS Conference on Computers and Accessibility* (ASSETS '23), New York, USA. https://dl.acm.org/doi/10.1145/3597638.3614549

Cossovich, R., Oury, A., Wang, H. & Cochrane, K. (2023). **roboVR: A Mixed Reality Simulation for Blind and Low Vision Students.** Poster presented at the 39th Graphic Interfaces (GI 23), Victoria, Canada. [Link]

Roushdy, A., Cossovich, R., Li, Y., & Hargis, J. (2022). **Realizing the importance of course design through rapid and frequent modifications in instructional modality.** *The Online Journal of New Horizons in Education-July*, *13*(3). https://www.tojsat.net/journals/tojned/articles/v13i03/v13i03-07.pdf

Cossovich, R., & Ermacora, G. (2021). **Interactive Technology Workshop as an Activity for Social-emotional Competence in a Post-pandemic Scenario.** Edulearn21 Proceedings, presented at the 13th Annual International Conference on Educational Technology in Palma de Mallorca, Spain. doi.org/10.21125/edulearn.2020.0581

Lavigne, E., Cossovich, R., & Hargis, J. (2021). **Using Design Thinking and Robots to Assess and Measure a Distance Learning After-School Program.** Global and Local Distance Education- GLOKALde, October 2021, ISSN 2148-7278, Volume: 7 Number: 2, Article 2. http://www.glokalde.com/pdf/issues/20/Article2.pdf

Cossovich, R., Hargis, J., & Chun, H. (2020). **Working with electrons: Integrating "kits" for hands-on online learning in homes.** *The Online Journal of New Horizons in Education.* www.tojned.net/journals/tojned/articles/v10i04/v10i04-05.pdf

Cossovich, R. (2020). **A Project-Based Learning Approach to Electromagnetism.** Edulearn20 Proceedings, presented at the 12th Annual International Conference on Educational Technology in Madrid, Spain. doi.org/10.21125/edulearn.2020.0581

MENTOR ACADEMIC PUBLICATIONS (SELECTED)

Yang, T., Guo, J., Ming, F., & Cossovich, R. (2025 - under review). **"AnyAdapter: a co-designed smart device support for wheelchair users."** *Empathetic Computing*. [Pre-print]

Nomoto, M., Lustig, A., Cossovich, R., & Hargis, J. (2022). **Qilin: a Robot-Assisted Chinese Language Learning Bilingual Chatbot.** In Proceedings of the 4th International Conference on Modern Educational Technology (ICMET 2022), Macau, China. doi.org/10.1145/3543407.3543410

Cossovich, R., Virgint, S., Garg, Y., Dhakar, D. & Lu, L. (2020). **Robotario: experiments in robotic agency**. Presented at the 4th International Conference of Robotics and Automation in Chengdu, China. http://dx.doi.org/10.1145/3402597.3402598

CREATIVE PRACTICE (SELECTED)

Digi-Crip (2025). An artist residency for digital artists with upper limb motor impairments. China-US-Canada.

Cossovich, R. (2020). **The Perfect Robot.** Short film, inspired by Jørgen Leth's "The Perfect Human" (1963). Presented at "Transart: A (not-so) Short Fest." [Link]

Hilliard, K., Eaton, S.J., Lynch, S., Mascarenhas, W. L., Kyambi, S., Lopez, P. E., Cossovich, R., Bertorello, F., Busch, B., Sandoval, L. (2019). **Editing Spaces.** The Institute of Endotic Research Press in Berlin, Germany. [Sample]

Cossovich, R. (2019). **Enlightening Intelligence: Behaviours from Synthetic Psychology.** Poster presented at the 25th International Symposium of Electronic Arts (ISEA 2019) in Gwangju, Korea. [Link]

Cossovich, R. (2019). **Robotic Poetry.** Performance at SOMA Cultural Center, Mexico.

Cossovich, R. & Hilliard, K. (2019). **Reunion: a hybrid robot-human reflection.** Performative experiment at Toronto Metropolitan University, Canada.

Fonassi, F., Eaton, S.J., Lynch, S., Mascarenhas, W. L., Kyambi, S., Lopez, P.E., Cossovich, R., Bertorello, F. (2019). **Field Kitchen Recordings.** Sound composed and recorded at the Field Kitchen Academy from July to August 2019 in Buchholz, Germany.

Cossovich, R. (2018). **Crypto-Karma.** Short performance about a dystopian future written and performed at Uferstudios GmbH on August 21, 2018, in Berlin, Germany.

Hilliard, K., Eaton, S.J., Lynch, S., Mascarenhas, W. L., Kyambi, S., Lopez, P. E., Cossovich, R., Bertorello, F., Busch, B., Sandoval, L. (2019). **Editing Spaces.** The Institute of Endotic Research Press. [Sample]

Cossovich, R. (2018). **Plobot: Interactive Installation.** Robot game displayed at Shenzhen Museum of Contemporary Art during Shenzhen Design Week.

Cossovich, R. (2016). **Multiplo: Interactive Installation.** Robot display at The Tech Museum of Innovation. [Link]

CURRICULUM DEVELOPMENT (SELECTED)

Creating Assistive Technology, 2022. [Link]
Working with Electrons, 2021.[Link]
Interface Lab, 2020. [Link & Tutorials]
Plobot: A Teacher's Guide, 2016. [Sample of instruction manual]
How to build a robot, 2014. [Video sample 1 - Video Sample 2 - Video Sample 3]

WORKSHOPS

Embodied interactions with TinyML (XJ Liverpool University - December, 2025).
PCB Design with Easy EDA (NYU Shanghai - February, 2024).
Accessible video games (Ottawa Foyers Partage - August, 2023).
Co-design for accessible computer inputs (IDEO CHINA - December, 2022).
DIY Interactive Face Masks (FutureLab Shanghai - December, 2020).
Drawing Robots (MoMa Shenzhen - September, 2020).

COMMUNITY ENGAGED LEARNING

Volunteering at the Hangzhou Paralympic Sport Center (2025)
Volunteering at Children Hostpital of Eastern Ontario (CHEO) (2023, 2024)
Collaboration with Home of Hope at Songjiang Rehabilitation Clinic (2022)
New Interfaces of Musical Expression, conference Art Installations Chair (2021)
Assistive Technology Hackathon, mentor at United World College (2021)
Rube around the world, co-organizer with Tom Igoe & Michael Shilloh (2019)

PUBLIC LECTURES

Opportunities for Accessibility 2.0 in China (December, 2025). EFDF, Shanghai, China
Pixel by Pixel: input methods for digital artists with upper limb motor impairments (August, 2025) Public Lecture, Waterloo University, Canada.
Accessible Artistic Technologies (June, 2025). Public Lecture, Carleton Univ., Canada.
Future Trends in Robotics & Automation (December, 2022). Public Lecture, China Robots and Intelligent Equipment Vocational Education Group (CRVEG)
Mentes Inquietas (July, 2021). Public Lecture, Pan American Energy, Argentina.
Machine Art (January, 2020). Artist Talk at OCAD University, Toronto, Canada.
Robot Poetry (January, 2020). Artist Talk at SOMA Cultural Center, Mexico.
From idea to Kickstarter & back again: a journey with an innovator (May, 2019). Public Lecture, L'université de Technologie Sino-européenne (USTEUS).

PROFESSIONAL DEVELOPMENT

Course of Research Ethics [TCPS CORE 2 - Government of Canada]
Course of Accessibility for Ontarians with Disabilities Act [Carleton University]
Social & Behavioural Researcher [CITI Program - NYU **]**
Self-driving cars with Duckietown [ETH Zurich - MOOC **]**
Course design studio [Center of Teaching & Learning, NYU Shanghai **]**
Design and development of educational technology in education [MITx - MOOC **]**
Making learning visible [Harvard Graduate School of Education - MOOC **]**
Design for manufacturing [Make in LA, Los Angeles **]**
Entrepreneurship [Startup Leadership Program, Shanghai **]**
Mandarin [East China Normal University, Shanghai **]**
Digital Signal Processing [Universidad Tecnológica Nacional, Buenos Aires **]**
ISO 17025 Certification [Instituto Nacional de Tecnología Industrial, Buenos Aires **]**
Circuit Design [Centro Investigación de las Fuerzas Armadas, Buenos Aires **]**

SELECTED MEDIA MENTIONS

This tiny robot teaches kids to code using cards. (2016) The Verge, USA
An invention from Argentina to China. (2016) Clarin Digital, Argentina [Link - SP]
Makers in Shanghai. (2015) Jiefang Monday Newspaper (解放周), China [Link - CN]
Hackers let kids play with robots. (2015) Wenhui Newspaper (文匯报), China [Link CN]
Highly added-value products from Argentina: using robots in education. (2015) Dangdai Magazine, Argentina [Link - CN]
Robot building and artificial intelligence. (2015) Shanghai Urban Family, China [Link]
How to teach robots programming.(2013) A Kind Voice, radio program, USA. [Link]
Create your own robot using this Multiplo kit. (2012) Mashable, USA [Link]

LANGUAGES

English - Bilingual (CELPIP 11/12)
Mandarin Chinese - Intermediate/Advanced
Spanish - Native/Bilingual
Portuguese - Beginner