

# CAROLINA SOTÉRIO

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Teachers College, Columbia University, 525 W 120th St, New York, NY 10027, United States

## SUMMARY

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Educator and science communicator with a STEM background pursuing a Doctorate in Education at Columbia University. **Skilled in developing interactive learning technologies, instructional design, and media strategies.** Passionate about creating equitable, engaging, and innovative educational experiences.

## EDUCATION

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**Columbia University, Doctoral Degree in Education** 2024 - current

Advisor: Paulo Blikstein

Concentration: Communication, Media, and Learning Technologies Design

Scholarship from the Teachers College

**Cornell University/University of São Paulo, Doctoral Degree in Sciences (Honors)** 2020 - 2024

Advisors: Bruce V. Lewenstein and Éder G. T. Cavalheiro

Thesis: *What do Students Want to Learn? Participatory Elaboration of a Guidebook on Science Communication for Chemistry Undergraduates*

Grantee of the São Paulo Research Foundation (FAPESP)

**State University of Campinas, Specialist in Science Journalism** 2019 - 2020

Thesis: *Quarantine: a storytelling podcast about Covid-19*

**University of São Paulo, Bachelor of Chemistry (Honors)** 2015 - 2018

Thesis: *Science Communication: Writing strategies applied to popular science texts*

## SERVICES, ACTIVITIES & EXPERIENCES

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**Public Outreach Team Member** Feb 2021 - current

International Younger Chemists Network (IYCN/IUPAC)

**COMM5660 - Science Communication Workshop** Mar 2023 - Mar 2023

Graduate Teaching Assistant, Cornell University

Course offered to STEM graduate students on campus

**SQF0320 - Scientific Writing and Communication I** Mar 2021 - Jul 2021

Graduate Teaching Assistant, University of São Paulo (IQSC/USP)

Course offered to undergraduate chemistry students

Grantee of the Teaching Improvement Program

Outstanding Teaching Assistant Awardee

**Science Podcaster** Apr 2020 - Dec 2020

Quarantine series, Oxigênio Podcast (UNICAMP Web Radio)

**Reporter for ComCiência Magazine** Nov 2019 - May 2023

Affiliated to the Brazilian Society for the Progress of Science (ISSN 1519-7654)

**Student Representative/Graduate Community Assistant** Sep 2019 - Sep 2021

Center for Science Culture and Outreach, University of São Paulo (CDCC/USP)

**Opportunity Prospector** Sep 2019 - Aug 2020

Young Researchers at the Brazilian Chemical Society (JP-SBQ)

**Science Podcaster** Aug 2019 - Jul 2020

Minuto da Química (UFSCar Radio)

**Research Internship in Science Outreach**

Feb 2017 - Feb 2018

Teacher's training, Argumentaê Company

**Research Internship in Bioanalytics**

Sep 2016 - Aug 2017

BioMicS Group, University of São Paulo, Grantee of the University of São Paulo

**Founder and President**

Oct 2015 - Jul 2020

American Chemical Society Student Chapter, University of São Paulo

**SELECTED PROJECTS**

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**Mood Monsters: Storytelling Powered by GogoBoard:** Created an interactive paper toy with changing faces controlled by GogoBoard technology and Machine Learning. Integrated user-generated storytelling and educational activities to support constructionist learning.

**Collaborative Guidebook on Science Communication for STEM students:** Designed and developed an instructional guidebook to enhance science communication skills. Involved 221 stakeholders across STEM and humanities in a participatory process, with iterative feedback to address student needs like audience-specific messaging and communication strategies. Applied instructional design principles to align with learning goals.

**CERTIFICATIONS & TECHNICAL SKILLS**

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Multimedia Editing and Design (Adobe Creative Suite, Audacity, Figma, UI/UX)

IT Tools: Microsoft Office Suite, Google for Work Suite, LMS (Moodle, Canvas, Google Classroom)

Programming (Git, Scratch, Python, SQL, GoGoBoard, Pencilcode, HTML, CSS, JS, LaTeX)

Data Analysis for Education (Google Analytics, NVivo, SPSS, Qualtrics)

Writing: Technical Writing, Journalism Content Production

Hands-on design at Makerspaces: 3D Printing, Laser Cutting, Handcrafting

Research: Participatory-Action Research, Interviewing, Mixed-Methods, IRB

**SELECTED HONORS & AWARDS**

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Outstanding Teaching Assistant, University of São Paulo, 2021.

Science Communication Hackathon, winner, University of São Paulo, 2019.

Innovative project, Chapter Awards, ACS USP Student Chapter, 2019.

Look and Learn Video Challenge, 2nd Place, American Chemical Society, 2018.

Younger Chemists Committee Leadership Award, American Chemical Society, 2017.

Science and Technology (Green Chemistry Project), 2nd place, 3M, 2014.

**SELECTED PUBLICATIONS & ORAL PRESENTATIONS**

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[Book] Queiroz, S. L.; Sotério, C. Case Studies: Approach to Teaching Chemistry. São Carlos: Diagrama. 2024.

[Journal Article] Sotério, C.; Queiroz, S. L. Chemistry Students as Science Journalists: Creating a Virtual Magazine on COVID-19. Journal of Chemical Education, 100(1), 2023.

[Oral Presentation] Sotério, C.; Guimarães, Sonia. Research &amp; Innovation. BRASA Summit Americas. New York, United States, 2024.

**LANGUAGES**

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Portuguese (Native), English (Fluent), and Spanish (Fluent)