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Shorbio

I am currently a postdoc on Machine Learning for Immersive Media (VR/360) and my career can be seen threefold. In research, I have worked on Video/TV/ML projects and conferences committees ([SBC WebMedia](#) and [ACM SIGMM](#)), especially interested in supporting more natural and QoE-oriented multimedia systems. In the industry, I have experienced technology transfer by standard/open-source and collaboration at industry forums ([Brazilian TV Forum](#) and [ITU-T SG16](#)). In teaching, I have acted as an undergrad lecturer and postgrad assistant, also seeking to get involved in public engagement and promote student interests in social impact.

Background

Work Experience

UCL, LASP Lab <i>Postdoc Researcher</i>	2021–today
PUC-Rio, TeleMidia Lab <i>Postdoc Researcher</i>	2017–2020
UFPB, Lavid Lab <i>Research Engineer</i>	2012–2013
Dynavideo, Division for TV products <i>Part-Time Intern</i>	2007–2008

Education

PUC-Rio <i>PhD. in Informatics. Multimodal-Multiuser Interactions in Video/TV</i> Supervisors: Simone Barbosa and Luiz Soares (<i>in memoriam</i>). Main impact: used as part of ITU/SBTVD standards	2013–2017
UFPB <i>MSc. in Informatics. Multidevice Applications on TV</i> Supervisor: Guido Lemos. Main impact: used as used in the awarded Social Impact Brasil4D project	2010–2012
UFPB <i>BSc. in Computer Science</i>	2005–2009

Research highlights

Publications

[Google Scholar](#) shows >50 published papers, >100 citations, h-index 6. See below recent and some selected publications.

<i>Elsevier Book Chapter</i>	2022
<i>ACM Multimedia Systems</i>	2022
<i>Springer Journal on Multimedia Tools and Applications</i>	2016, 2020
<i>IEEE Symposium on Multimedia (ISM)</i>	2020
<i>SBC WebMedia</i>	2020, 2020, 2020, 2021, 2021, 2021
<i>ACM Symposium on Document Engineering</i>	2019
<i>IEEE Multimedia Signal Processing</i>	2019

Projects on Machine Learning

- SpheryStream (Funded by EPSRC): Improve 360-video streaming with profile-based methods
- [VideoMR](#) (Funded by RNP and Microsoft): detect inappropriate content in video scenes

- Anti-Money Laundry (Funded by BTG Bank): Classify suspicious money transactions

Projects on video/TV systems

- [Ginga PUC-Rio](#) reference implementation, funded by PUC-Rio Software Licenses to TV manufacturers
- [GT-RAP](#) (Funded by RNP): blockchain-based authentication of academic certificates
- [GingaAppStore](#) (Funded by RNP): design broadband system to deliver TV applications
- [Art TVDI](#) (Funded by RNP): design agile methods for TV applications development
- [Ginga CDN](#) (Funded by RNP): develop reusable TV middleware components.
- [Brasil4D](#) (Funded by World Bank): design a transmission of social impact TV content to low-income families. Its results were published at a [public report](#)

Awards

- Approved as PI in [VideoMR](#) project (Funded by RNP and Microsoft)* 2019
- Brasil 4D* 2013-2014
- [SET Conference Award](#) for Best TV interactivity solution
 - TV Award [Honorable mention in Innovation and Creativity](#)
 - FRIDA Award for [innovative TV technological solutions](#)
- GingaStore* 2012
- [ITU IPTV Application Challenge](#) Honorable mention in User-friendliness
- Travel Awards* 2017-2022
- SIGMM Travel Award for MMSys (2022)
 - SIGWeb Travel Award for DocEng (2017, 2019)
 - SIGHI Gary Marsden Travel Award for IMX (2022)

Committees

- ACM* 2020-today
- Multimedia conference: reviewer (2022), area chair (2022), reproducibility chair (2023)
 - Multimedia Systems (ACM MM): MMVE review (2021, 2022, 2023) and demo chair (2022)
 - Immersive Experiences(ACM IMX) conference: reviewer (2022) and area chair (2022)
 - QoMex conference (ACM QoMEX): reviewer (2023)
- Brazilian Computing Society (SBC)* 2017-today
- [WebMedia](#) conference: Steering Committee (2019-today), reviewer (2013-today), chair of Undergrad workshop (2018), chair of Demos Workshop (2019-today), and chair of Social Impact Workshop (2018-today)
- Springer* 2022-today
- Journal of Multimedia Tools and Applications: reviewer (2022, 2023)
 - Iberoamerican Conference on TV Applications and Usability: reviewer (2020, 2021, 2022)
- IEEE* 2019-today
- Multimedia conference: SeMP workshop reviewer (2019)

Training

- UCL: Data Protection for Researchers; Fundamentals in Research Funding* 2022-2021
- Nature: Interpreting Scientific Results; Nature Focus on Peer Review* 2022-2023

Industry highlights

Committees

- Brazilian TV Forum (SBTVD)* 2015-today
- Contributor to standard TV Industry Conformance Test Suite
 - Academic collaborator at [Tecnical Module](#) for [TV middleware standards](#)
- Brazilian Broadcast Society (SET)* 2020
- [SET IJBE](#) reviewer (2020)
- International Telecommunication Union (ITU)* 2017-today
- Brazilian collaborator at [SG-16/Q13](#) for [IPTV standards](#)

Standards

<i>SBTVD 15606-2: Nested context language (NCL) and Ginga-NCL</i>	2019
<i>ITU Recommendation H.761: Nested context language (NCL) and Ginga-NCL</i>	2015

Teaching highlights

Experiences

PUC-Rio

Assistant on Multimedia and Machine Learning to postgrad students (>20) 2019

Assistant on TV development (Ginga Brasil, Funded by RNP) to undergrad students (>30) 2013

Japan International Cooperation Agency

Lecturer (and course design) on TV development to South American countries professionals(>20) 2012

RNP ESR

Assistant on Linux Administration to IT professionals (>20) 2011

UFPB

Lecturer (and course design) on Programming Introduction (C language) to undergrad students(>30) 2010

Assistant on Analysis and design of Algorithms to undergrad students (>30) 2008

Public Engagement

Chair of SBC WebMedia award to students researching on Social Impact 2018-today

Brasil 4D project to TV as social impact 2013-2014

Training

UCL Public Engagement workshop 2021

Other skills

Technical (see [Github page](#))

- Opensource maintenance
- Programing: Python, TensorFlow, C++, Lua, Java
- Video: DASH, MPEG2-TS, Gstreamer, FFmpeg
- Frontend: HTML/JS, Flutter, Android, Qt, Unity
- Backend: Nodejs, Flask, AWS, Docker
- Others: Latex, GitHub/Git, scripting/building tools (bash, Autotools, CMake, meson), Scrum, Kanban

Social

- Languages: Portuguese (mother tongue), English (advanced, SELT certification), and Spanish (average)
- Positive, make-it-happen, team-work, lead-by-example attitude
- Good/empathic communication and ability to collaborate with international teams

Visa status

- Nationality: Brazilian
- UK visa for working valid until 12/2024 (permanent-employed partner)

References

- Laura Toni <l.toni@ucl.ac.uk>: Postdoc. supervisor at UCL.
- Simone DJ Barbosa <simone@inf.puc-rio.br>: PhD and PostDoc supervisor at PUC-Rio.
- Marcelo Moreno <moreno@ice.ufjf.br>: ITU SG-16/Q13 and SBTVD collaborator.
- Roberto Azevedo <roberto.azevedo@disneyresearch.com>: TeleMidia collaborator.