

Alan Guedes — C.V.

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Highlights

- Computer Scientist with Ph.D. and multiple Postdoc researching ML for Video (360-degree, segmentation, compression) and Multimedia Communication (TV systems, multimedia scene descriptions)
 - [Google Scholar](#) with 60+ published papers, 150+ citations, h-index 7.
 - Awarded with a [Microsoft funding](#) (video classification) as Principal Investigator.
 - Contributed as reviewer and chair at research communities (ACM MM, ACM MMSys, ACM IMX, Springer MTAP, SBC WebMedia)
 - Experienced technology transfer to the TV industry by open source and standards (ITU-T SG16 and [TV Forum](#)).
 - Co-supervised students and lectured on under- and post-graduate modules.
 - Teaching experiences (module design, invited talks) and promoted students' [research on social impact](#).
- See certificates [here](#).

Experiences

Work.....

University College London (UCL)

Postdoc Researcher on ML project at [LASP Lab](#)

2021–today

Highlights: ACM SIGMM committees and workshop organizer; co-supervised undergrad students.

- SpheryStream project funded by EPSRC to Improve 360-video streaming with profile-based methods.

Pontifical Catholic University of Rio de Janeiro (PUC-Rio)

Postdoc Researcher on ML & Multimedia projects at [TeleMidia Lab](#)

2017–2020

Highlights: project PI; team leader; standards contributions; SBC WebMedia committees and workshop organizer (students for social impact); co-supervised under/postgrad students; postgraduate lecturer assistant.

- [VideoMR](#) project, funded by Microsoft & RNP to detect inappropriate content in video scenes;
- AML (Anti-Money Laundry) project, funded by BTG Bank, to detect financial transactions risk and anomaly detection.
- [GT-RAP](#) project, funded by RNP, to develop a blockchain-based system for academic certificates.
- SBTVD Conformance Test Suite for Ginga D profile, funded by the Brazilian Ministry of Science and Technology, to be used by TV manufacturers.

Dynavideo

Software engineer at [TV Division](#)

2012–2013

Highlights: multiple awarded social impact projects.

- [Brasil4D](#) project, funded by World Bank, to transmit interactive TV content with social features to low-income families. Its impact results are available as [public report](#).

Education.....

Pontifical Catholic University of Rio de Janeiro (PUC-Rio)

Ph.D. in Informatics. Thesis on [Multimodal-multiuser support in multimedia scene descriptions](#) 2013–2017

Highlights: thesis used in international standards; participate in industry committees.

- [PUC-Rio Ginga implementation](#), funded by PUC-Rio Software Licenses, to develop a reference implementation for TV manufacturers;
- SBTVD Conformance Test Suite for Ginga A/B/C profiles, funded by the Brazilian Ministry of Science and Technology, to be used by TV manufacturers.

Federal University of Paraiba (UFPB)

MSc. in Informatics. Thesis on [Multi-device support in TV app stores](#)

2010–2012

Highlights: thesis concepts used in the awarded Brasil4D project; undergraduate lecturer; project leader

- [GingaStore](#), funded by RNP, to design a broadband system to deliver TV applications.
- [Art TVDI](#), funded by RNP, to design agile methods for TV application development.

Federal University of Paraiba (UFPB)

BSc. in Computer Science. Final report on [Component-based architecture for TV middleware](#)

2005–2009

- [Ginga CDN](#), funded by RNP, to develop reusable TV middleware components.
- Tutor on Analysis and Design of Algorithms.
- Part-Time software developer at Dynavideo [TV Division](#) to prototype TV software in ST boards.

Research

Publications

[Google Scholar](#) shows 60+ published papers, 150+ citations, h-index 7. 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

Committees

ACM, Special Interest Group on Multimedia

Reviewer and chairing 2020-today

- ACM MM: reviewer (2022, 2023), area chair (2022)
- ACM MMSys: MMVE review (2021, 2022, 2023) and demo chair (2022)
- ACM IMX: reviewer (2022) and area chair (2022)
- ACM QoMex: reviewer (2023)

BR Computing Society (SBC), [Web&Mulimedia Committee](#)

Steering Committee 2021-today

Reviewer and chairing 2017-today

- [WebMedia](#) conference reviewer (2017-today), chair of Undergrad workshop (2018), chair of Demos Workshop (2019-2022), and chair of Social Impact Workshop (2019-2022)

Springer

Reviewer 2022-today

- Journal of Multimedia Tools and Applications: reviewer (2022, 2023)
- Iberoamerican Conference on TV Applications and Usability: reviewer (2020, 2021, 2022)

Brazilian TV Forum (SBTVD)

Academic member at [Technical Module](#) contributing to [TV middleware standards](#) 2017-2021

International Telecommunication Union (ITU)

Academic member at [SG-16/Q13](#) contributing to [IPTV middleware standards](#) 2017-2021

Training

UCL: Research Supervision; People Management Essentials; Fundamentals in Research Funding; GDPR; Data Protection.

Nature MasterClass: Narrative Tools for Researchers; Focus on Peer Review.

Teaching

UCL

Co-supervise undergrad engineering projects. 2022-today

SBC WebMedia

Organizer of students workshop to promote Social Impact research. 2018-2022

PUC-Rio

Invited Lecture on ML for Multimedia to postgrad students (30+) 2019

Lecturer on TV development to undergrad students (30+). 2013

Japan International Cooperation Agency

Lecturer and course design on TV development to South American countries professionals (30+) 2012

RNP ESR*Lecturer on Linux Administration to IT professionals (30+)*

2011

UFPB*Lecturer and course design on Programming Introduction (C language) to undergrad students (15+)*

2010

Training.....**UCL:** Personal Tutoring; Diversity and Inclusion; Connected Learning Essentials**LinkdinLearning:** Moodle 3.9.

Funding & Awards

Microsoft*Approved as PI in [VideoMR](#) Grant for video analysis*

2019

ACM*SIGMM Travel Award for MMSys*

2022

SIGHI Gary Marsden Travel Award for IMX

2022

SIGWeb Travel Award for DocEng

2019

TV associations*[FRIDA](#) Innovative TV technological solutions award for Brasil4D project*

2014

[SET](#) Conference award on Best TV interactivity solution for Brasil4D project

2013

[PremioTV](#) on Innovation and Creativity for Brasil4D project

2013

ITU*[IPTV](#) Application Challenge for GingaStore project*

2012

Skills

Academic: Execute research agenda. Scientific and standard writing.**Teaching:** Course design, Moodle, Presentation skills.**Programming:** Python, TensorFlow, Bash, C++, Lua, Java, JavaScript, Latex, Docker.**Social:** Good and empathic communication. Positive, make-it-happen, teamwork, lead-by-example attitudes.**Languages:** English (fluent), Portuguese (mother tongue), and Spanish (fluent).

References

- Laura Toni, l.toni@ucl.ac.uk. Postdoc supervisor at UCL.
- Simone Barbosa, simone@inf.puc-rio.br. Ph.D. 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.