

Alan Guedes — C.V.

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Highlights

- Computer Scientist with Ph.D. and multiple Postdoc.
- [Google Scholar](#) with 50+ published papers, 140+ citations, h-index 7.
- Co-supervised students and lectured on under- and post-graduate modules.
- Awarded Microsoft funding as PI.
- Acted as reviewer and chair at research communities ([ACM SIGMM](#), Springer, and [SBC WebMedia](#)).
- Technology transfer to the TV industry by open source and standards ([ITU-T SG16](#) and [BR TV Forum](#)).
- Promote students' research on social impact ([SBC WebMedia](#)).

See certificates 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 40+ published papers, 100+ citations, h-index 6. See below recent and some selected publications.

Elsevier Book Chapter 2022

ACM Multimedia Systems. 2022

Springer Journal on Multimedia Tools and Applications. 2016, 2020

IEEE Symposium on Multimedia (ISM). 2020

SBC WebMedia 2020, 2020, 2020, 2021, 2021, 2021

ACM Symposium on Document Engineering. 2019

IEEE Multimedia Signal Processing. 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: Portuguese (mother tongue), English (fluent), 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.