

Alan Guedes | C.V.

✉ a.guedes@reading.ac.uk •  alanlivio.github.io •  [github](#) •  [scholar](#)

Highlights

- Computer Scientist Ph.D. with multiple postdoc experiences and research in Applied Machine Learning.
- [Google Scholar](#) with 50+ published papers, 160+ citations, h-index 7.
- Awarded as Principal Investigator in a [Microsoft-funded project](#) (video classification).
- Experience in technology transfer to the industry by standards on [ITU-T SG16](#) and [TV Forum](#).
- Contributed to research communities (ACM MM, ACM MMSys, ACM IMX, Springer MTAP, WebMedia)
- Co-supervised under- and post-graduate students.
- Experience in teaching (module design, invited talks) and promoting students' [research on social impact](#).
- Skilled in C++, Python, ML Frameworks, research/academic/standards writing, and open source.

Experience

University of Reading

Lecturer in Computer Science Research

2024–today

- Teach Undergrad and MSc modules.

University College London (UCL)

Postdoc Researcher (ML projects at [LASP lab](#))

2021–2023

- Co-supervised undergrad and M.Sc. students.
- Contributed to ACM SIGMM events as a reviewer and workshop organizer.
- Worked on an EPSRC-funded project to improve 360-video streaming with profile-based methods.

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

Postdoc Researcher (ML and multimedia projects at [TeleMidia Lab](#))

2017–2021

- Co-supervised undergrad and M.Sc. students.
- Contributed to SBC WebMedia as a reviewer and workshop organizer.
- Lecturer assistant on ML postgraduate module.
- Principal Investigator in a [Microsoft-funded project](#) to detect inappropriate content in educational video repositories.
- Team Leader on SBTVD conformance test suite for [TV API standards](#) (profile D) to be used by TV manufacturers.
- Worked on a [BTG Bank-funded project](#) to detect financial transaction risk and anomaly detection.
- Worked on an [RNP-funded project](#) to design a blockchain-based system for academic certificates.

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

Ph.D. Fellow (multimedia projects at [TeleMidia Lab](#))

2013–2017

- [Thesis on multimedia scene descriptions](#) used as contributions to TV standards.
- Worked on PUC-Rio implementation of [TV API standards](#) funded by software licensing to TV manufacturers.
- Worked on the SBTVD conformance test suite for [TV API standards](#) (profiles A/B/C) to be used by TV manufacturers.

Dynavideo

Research Engineer

2012–2013

- Worked on a [World Bank-funded project](#) (Brasil4D) to transmit interactive government TV content to low-income families. It received multiple awards from TV Associations.

Federal University of Paraiba (UFPB)

M.Sc. Fellow (multimedia projects at [Lavid Lab](#))

2010–2012

- [Thesis on IBB TV app stores](#) used as contributions to TV standards.
- Lecturer and module design for Introduction to Programming (C language).
- Team leader on an RNP-funded project ([GingaAppStore](#)) to design a broadband system to deliver TV apps.

Education

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

Ph.D. in Computer Science

2013–2017

Federal University of Paraiba (UFPB)

M.Sc. in Computer Science

2010–2012

¹See certificates at <https://alanlivio.github.io/certificates>

Funding & Awards

Microsoft

Grant for video analysis as Principal Investigator (funded 2 MSc students for 1 year) 2019

ACM

Multiple Travels Awards 2019-2022

- SIGMM Travel Award for MMSys (2022), SIGHI Gary Marsden Travel Award for IMX(2022), SIGWeb Travel Award for DocEng(2019).

TV Associations

Brasil4D Awards 2013-2014

- FRIDA Innovative TV (2014), SET Conference best TV interactivity solution for Brasil4D project (2013), PremioTV on Innovation and Creativity(2013)

ITU

GingaAppStore project: on User friendliness IPTV Application Challenge 2012

Research

Publications

Google Scholar shows 50+ published papers, 160+ citations, h-index 7. See below recent and 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

Research Committees

ACM Special Interest Group on Multimedia

Reviewer and chair 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).

SBC WebMedia

Reviewer and chair 2019-today

- WebMedia: Steering Committee (2018-2020), reviewer (2018-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 (2022-today).
- Iberoamerican Conference on TV Applications and Usability (2021, 2023).

Industry Committees

Brazilian TV Forum (SBTVD).

Academic member at Technical Module contributing to TV API standards 2017-2021

International Telecommunication Union (ITU).

Academic member at SG-16/Q13 contributing to TV API standards 2017-2021

Training

University College London (UCL): Research Supervision, People Management Essentials, Fundamentals in Research Funding, GDPR, Data Protection.

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

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.