Alan Guedes | C.V.

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Highlights

Profile: Computer Scientist Ph.D. with multiple postdoc experiences and research in Applied Machine Learning.

Publications: Google Scholar with 50+ published papers, 160+ citations, h-index 7.

Funding: Awarded as Principal Investigator in a Microsoft-funded project (video classification).

Standards: Experience in technology transfer to the industry by standards on ITU-T SG16 and TV Forum.

Community: Contributed to research communities (ACM MM, ACM MMSys, ACM IMX, Springer MTAP, WebMedia).

Supervision: Co-supervised under- and post-graduate students.

Teaching: Experience in teaching (module design, invited talks) and promoting students' research on social impact.

Skills: Skilled in C++, Python, ML Frameworks, research/academic/standards writing, and open source.

Experience

University of Reading
Lecturer in Computer Science Researcher *2024–today*
Teaching: Teach Undergrad and MSc modules.

University College London (UCL)
Postdoc Researcher (ML projects at LASP research group) *2021–2023*
Supervision: Co-supervised undergrad and M.Sc. students.
Service: Contributed to ACM SIGMM events as a reviewer and workshop organizer.
Research: 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 research group) *2017–2021*
Supervision: Co-supervised undergrad and M.Sc. students.
Service: Contributed to SBC WebMedia as a reviewer and workshop organizer.
Teaching: Lecturer assistant on ML postgraduate module.
VideoMR: Principal Investigator in a Microsoft-funded project to detect inappropriate content in educational video repositories.
SBTVD: Team Leader on SBTVD conformance test suite for TV API standards (profile D) to be used by TV manufacturers.
BTG: Worked on a BTG Bank-funded project to detect financial transaction risk and anomaly detection.
RNP: 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 research group) *2013–2017*
Thesis: Thesis on multimedia scene descriptions used as contributions to TV standards.
Ginga: Worked on PUC-Rio implementation of TV API standards funded by software licensing to TV manufacturers.
SBTVD: 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*
Brasil4D: 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 research group) *2010–2012*
Thesis: Thesis on IBB TV app stores used as contributions to TV standards.
Teaching: Lecturer and module design for Introduction to Programming (C language).
GingaAppStore: Team leader on an RNP-funded project (GingaAppStore) to design a broadband system to deliver TV apps.

[1] See certificates at https://alanlivio.github.io/cv/

Education

Pontifical Catholic University of Rio de Janeiro (PUC-Rio)
PhD in Computer Science *2013–2017*

Federal University of Paraiba (UFPB)
MSc in Computer Science *2010–2012*

Federal University of Paraiba (UFPB)
BSc in Computer Science *2005–2009*

Funding & Awards

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

ACM
Multiple Travels Awards *2019–2022*
Awards: 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*
Awards: 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*
MTAP: Journal of Multimedia Tools and Applications (2022-today).
JAUTI: 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.