Alan Guedes | C.V.

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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 contributed to Multimedia & Machine Learning (ML) projects and research committees (ACM SIGMM and SBC WebMedia), being especially interested in the intersection of Multimedia and ML aiming at support more natural and QoE-oriented systems. In the industry, I have experienced technology transfer by standards and open-source, and collaboration at industry forums (ITU-T SG16 and Brazilian TV Forum). In teaching, I have acted as an undergrad lecturer and postgraduate assistant, and I also seek to get involved in public engagement and promote student interests in social impact.

Background		
Work Experience		
UCL, LASP Lab		
Postdoc Researcher on ML project	2021–today	
PUC-Rio, TeleMidia Lab Postdoc Researcher on ML/Mutimedia Systems projects	2017–2020	
UFPB, Lavid Lab Research Engineer on Mutimedia Systems projects	2012–2013	
Dynavideo, TV Division		
Part-Time Intern on embedded software	2007-2008	
Education		
PUC-Rio		
PhD. in Informatics. Multimodal-Multiuser Interactions in Multimedia Languages	2013–2017	
Supervisors: Simone Barbosa and Luiz Soares (in memoriam). Main impact: used as part of ITU/SBTV UFPB	D standards	
MSc. in Informatics. Multidevice Applications in BroadBandTV	2010–2012	
Supervisor: Guido Lemos. Main impact: used as used in the awarded Social Impact Brasil4D project		
UFPB		
BSc. in Computer Science	2005–2009	
Research highlights		
Publications		
Google Scholar shows $>$ 50 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	
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

- AML - Anti-Money Laundry (Funded by BTG Bank): Classify suspicious money transactions Projects on Multimedia systems..... - PUC-Rio Ginga reference implementation, funded by PUC-Rio Software Licenses to TV manufacturers - SBTVD Conformance Test Suite for TV for Ginga implementers - 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 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 2012 GingaStore - 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** SIGMM contributor 2020-today - Multimedia conference: reviewer (2022), area chair (2022), reproductibility 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)** Mulimedia Especial Commitee 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** Reviewer 2022-today - Journal of Multimedia Tools and Applications: reviewer (2022, 2023) - Iberoamerican Conference on TV Applications and Usability: reviewer (2020, 2021, 2022) 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)** Academic member at Techincal Module contributing to TV middleware standards 2017-today International Telecommunication Union (ITU) Academic member at SG-16/Q13 contributing to IPTV middleware standards 2017-today

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(>3	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 20	18-today
Brasil 4D project to TV as social impact	013-2014
Training	
UCL Public Engagement workshop	2021

Skills highlights

Programing: Python, TensorFlow, C++, Lua, Java, JavaScript.

Backend: Nodejs, Flask, AWS.

Engineering: Git, Bash, Scrum, Docker, LXC

 $\textbf{Languages} : \ \mathsf{Portuguese} \ (\mathsf{mother} \ \mathsf{tongue}), \ \mathsf{English} \ (\mathsf{advanced}, \ \mathsf{SELT} \ \mathsf{certification}), \ \mathsf{and} \ \mathsf{Spanish} \ (\mathsf{advanced}).$

Social: Good and empathic communication. Positive, make-it-happen, team-work, lead-by-example attitude.

Academic: Scientific and standard writting. Teaching.

References

- Laura Toni <1.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.