Alan Guedes | C.V.

London - UK

Summary

I am currently a postdoc on Machine Learning for Immersive Media (VR/360/Volumetric) and my career can be seen threefold. In research, I have worked on Video/TV/ML projects and conferences committees (SBC WebMedia and ACM SIGMM), especially interesting in supporting more natural and QoE-oriented multimedia systems. In the industry, I have experienced technology transfer by standard/open-source and collaboration at industry forums (Brazilian TV Forum and ITU SG16). In teaching, I have acted as an undergrad lecturer and postgrad assistant, also seeking to get involved in public engagement and promote student interests in social impact.

Education

UCL, UK Postdoc at EEE Dep. Personalized 360-video streaming Supervisor: Laura Toni	2021–today
PUC-Rio, BR	
Postdoc at Informatics Dep. Immersive MultiSensorial 360-video Supervisors: Simone Barbosa and Sergio Colcher	2017–2019
PhD. in Informatics. Multimodal-Multiuser Interactions in Video/TV Supervisors: Simone Barbosa and Luiz Soares (in memoriam) Impact: Considered to be part of SBTVD standards	2013–2017
UFPB, BR	
MSc. in Informatics. Multidevice Applications on TV Supervisor: Guido L.S. Filho Impact: used in the awarded Brasil4D WorkBank project	2010–2012
BSc. in Computer Science	2005–2009
Research	

Experiences

UCL, LASP Lab

Full-time Postdoc 2021–2022

- SpheryStream (Funded by EPSRC): Improve 360-video streaming with profile-based methods

PUC-Rio, TeleMidia Lab

Full-time Postdoc 2018–2020

- VideoMR (Funded by RNP and Microsoft): detect inappropriate content in video scenes
- Anti-Money Laundry (Funded by BTG Bank): Classify suspecious transactions
- Ginga-NCL TV standard evolution (Funded by PUC-Rio Software Licenses income)
- GT-RAP (Funded by RNP): blockchain-based authentication of academic certificates

- PUC-Rio Ginga (Funded by PUC-Rio Software Licenses): maintence of Ginga

stardanrd reference implementation

UFPB, Lavid Lab

Msc. Full-time Research Engineer

2012-2013

2013-2017

- Brasil4D (Funded by World Bank): design a transmission of social impact TV content to low-income families. Its results published at a public report

MSc. Student Part-time Research Engineer

PhD. Student Part-time Research Engineer

2009–2012

- GingaAppStore (Funded by RNP): design broadband system to delivery TV applications
- Art TVDI(Funded by RNP): design agile methods for TV applications development

- Ginga CDN (Funded by RNP): develop reusable TV middleware components.	
Funding	
Approved as PI in VideoMR project (Funded by RNP and Microsoft)	2019
Committees	
ACM	2020-today
 Membership: SIGMM(2020-today) and SIGHCI(2022) MM conference (main in the field): reviewer (2022) and area chair (2022) MMSys conference: MMVE review (2021, 2022) and demo chair (2022) IMX conference: reviewer (2022) and area chair (2022) Brazilian Computing Society (SBC) 	2017-today
 Membership (2017-today), Student Representative (2015-2016) 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	2022-today
 Journal of Multimedia Tools and Applications: reviewer (2022) Iberoamerican Conference on TV Applications and Usability: reviewer (2021, 2022) IEEE 	2019-today
- SIGSSP Associate	
- IEEE Multimedia conference: SeMP workshop reviewer (2019)	
Awards	
ACM 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) 	
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 	
GingaStore	2012
- ITU IPTV Application Challenge Honorable mention in User friendliness	
Publications	
Google Scholar shows $>$ 50 published papers, $>$ 100 citations, h-index 6. See bellow recent publications.	and some selected
ACM Multimedia Systems	2022
Elsevier Book Chapter	2022
Springer Journal on Multimedia Tools and Applications	2016, 2020
IEEE Symposium on Multimedia (ISM)	2020
), 2021, 2021, 2021
ACM Symposium on Document Engineering	2019
IEEE Multimedia Signal Processing	2019
Training	
UCL Data Protection for Researchers	2022
Nature Interpreting Scientific Results	2022
Nature Focus on Peer Review UCL Fundamentals in Research Funding	2022 2021
UCL Fundamentals in Research Funding	2021

Industry	
Experiences	
Brazilian TV Forum (SBTVD) Contributor to standard TV Industry Conformance Test Suite	2013-2020
Dynavideo, Division for TV products	
BSc. Student Part-Time Software Developer	2007-2008
- development of TV receivers software	
Committees	
Brazilian TV Forum (SBTVD)	2015-today
- Academic collaborator at Tecnical Module for TV middleware standards Brazilian Broadcast Society (SET)	2020
- SET IJBE reviewer (2020)	
Standards	
ITU Recommendation H.761: Nested context language (NCL) and Ginga-NCL	2015
SBTVD 15606-2: Nested context language (NCL) and Ginga-NCL	2019
International Telecommunication Union (ITU)	2017-today
- Brazilian collaborator at SG-16/Q13 for IPTV standards	
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Teaching	
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 America countries profissionals(>20)	2012
RNP ESR	
Assistant on Linux Administration to IT professionals (>20)	201
UFPB	
Lecturer (and course design) on Programming Introduction (C language) to undergrad students	(>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	2018-today
Brasil 4D project to TV as social impact	2013-2014
Training	

Other skills

Techinical (see Github page)

UCL Public Engagement workshop

- Opensource maintenance
- Programing: Python, TensorFlow, C++, Lua, C#, Java
- Video: DASH,MPEG2-TS, Gstreamer, FFmpeg
- Frontend: HTML/JS, Flutter, Android, Qt, Unity
- Backend: Nodejs, Flask, AWS, Docker
- Others: Latex, GitHub/Git, scripting/building tools (bash, autotools, cmake, meson), Scrum, Kanban
- Languages: Portuguese (mother tongue), English (advanced, SELT certification), and Spanish (average)
- Positive, make-it-happen, team-work, lead-by-example attitude
- Good/empathic communication and able to collaborate international teams

2021

Visa status

- Nationaly: Brazilian UK visa for working valid until 12/2024 (permanent-employed partner)

References

- Laura Toni <1.toni@ucl.ac.uk>: Posdoc. advisor at UCL.
- Simone DJ Barbosa <simone@inf.puc-rio.br>: Ph.D. and PostDoc advisor ad PUC-Rio.
- Marcelo Moreno

 moreno@ice.ufjf.br>: ITU SG-16/Q13 and SBTVD collaborator.
- Roberto Azevedo <roberto.azevedo@disneyresearch.com>: TeleMidia collaborator.