

# Alan Guedes — C.V.

✉ [a.guedes@ucl.ac.uk](mailto:a.guedes@ucl.ac.uk) • [alanlivio.github.io](https://alanlivio.github.io) • [github](https://github.com) • [scholar](https://scholar.google.com)  
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## Highlights

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- Computer Scientist with Ph.D. and multiple Postdoc
- [Google Scholar](#) with 50+ published papers, 140+ citations, h-index 7
- Co-supervised students, 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 TV industry by opensource and standards ([ITU-T SG16](#) and [BR TV Forum](#))
- Promote students research on social impact ([SBC WebMedia](#))

See certificates certificates [here](#)

## Experiences

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### Work.....

#### UCL, LASP Lab

*Postdoc Researcher on ML project*

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

#### PUC-Rio, TeleMidia Lab

*Postdoc Researcher on ML & Multimedia projects*

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 Brazilian Ministry of Science and Technology, to be used by TV manufacturers

#### Dynavideo, TV Division

*Software engineer*

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 results were published in a [public report](#)

### Education.....

#### PUC-Rio

*Ph.D. in Informatics. Thesis on [Multimodal-multiuser support in multimedia scene descriptions](#)* 2013–2017

Highlights: thesis concepts used in SBTVD standard; industry committees.

- [PUC-Rio Ginga](#), 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 Brazilian Ministry of Science and Technology, to be used by TV manufacturers

#### 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 applications development;

#### 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

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### 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

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#### 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

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### 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

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**Academic:** Execute research agenda. Scientific and standard writing.

**Teaching:** Course design, Moodle, Presentation skills.

**Programing:** 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

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- 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.