


Vasco Ramos

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EDUCATION

- | | |
|--|---------------------|
| PhD in Computer Science
<i>NOVA School of Science and Technology</i> | Feb 2024 - Present |
| Master's in Computer Science and Engineering
<i>NOVA School of Science and Technology</i> | Sep 2022 - Dec 2024 |
| <ul style="list-style-type: none">- Average grade: 17.45/20- Thesis: Sequence Diffusion Methods to Illustrate Complex Manual Tasks (Grade: 20/20)- Awarded Top of the Class (MSc Computer Science and Engineering) | |
| Bachelor's in Computer Science and Engineering
<i>Portalegre Polytechnic University</i> | Sep 2019 - Jun 2022 |
| <ul style="list-style-type: none">- Average grade: 17/20- Final Project: Development of a distributed information retrieval system (Grade: 19/20)- Awarded Top Graduate of the School | |

RESEARCH PROJECTS

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|--|---------------------|
| Measuring the Consistency of Generative AI Methods in the Visual Domain
<i>Google Research & NOVA SST</i> | Nov 2023 - Present |
| <ul style="list-style-type: none">- Role: Researcher Funded by: Google PO 4100419164- Research on generative methods for creating image and video content, while evaluating the consistency and groundedness of the results. | |
| TWIZ v2: The Wizard of Multimodal Conversational AI 
<i>Amazon Science & NOVA SST</i> | Jun 2022 - Sep 2023 |
| <ul style="list-style-type: none">- Winning Team of Alexa Prize TaskBot Challenge (2nd edition)- Competition to build conversational AI systems that assist users in multi-step activities while maintaining context and seamless interaction. | |

EXPERIENCE

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|--|---------------------|
| Graduate Researcher & Phd Researcher
<i>NOVA SST</i> | May 2023 – Present |
| <ul style="list-style-type: none">- Research on conversational agents, multimodal models and information retrieval. | |
| Deep Learning Course Instructor - CMU Portugal Academy
<i>Carnegie Mellon Portugal</i> | Jan 2025 – Feb 2025 |
| <ul style="list-style-type: none">- Taught Natural Language Processing, Computer Vision and Multimodal Generative AI at CMU Portugal Advanced Training Program | |
| Deep Learning Course Instructor - Samsung Innovation Campus Course
<i>Samsung & NOVA SST</i> | Oct 2024 – Feb 2025 |
| <ul style="list-style-type: none">- Taught Deep Learning fundamentals along with advanced topics in Computer Vision and Natural Language Processing using large language models. | |
| Software Developer
<i>DotIt</i> | Dec 2020 – Apr 2021 |
| <ul style="list-style-type: none">- Improved database performance by refactoring database architecture and queries. | |

COURSES & CERTIFICATIONS

LxMLS 2024: 14th Lisbon Machine Learning School

Jul 2024

- Summer school focused on Machine Learning and Natural Language Processing.

Cisco Networking Academy Certifications

2021 - 2022

- CCNA1 (Mar 2021), CCNA2 (Sep 2021), CCNA3 (May 2022)

LANGUAGES

Portuguese - Native

English - Professional Proficiency

Spanish - Professional Proficiency

Publications

Latent Beam Diffusion Models for Generating Visual Sequences [↗](#)

2025

Submitted and Under Review

Guilherme Fernandes, **Vasco Ramos**, Regev Cohen, Idan Szpektor, Joao Magalhaes

Contrastive Sequential-Diffusion Learning: Non-linear and Multi-Scene Instructional Video Synthesis [↗](#)

2025

2025 IEEE/CVF Winter Conference on Applications of Computer Vision (WACV)

Vasco Ramos, Yonatan Bitton, Michal Yarom, Idan Szpektor, Joao Magalhaes

Generating Coherent Sequences of Visual Illustrations for Real-World Manual Tasks [↗](#)

2024

62nd Annual Meeting of the Association for Computational Linguistics

Presented the work in the poster session.

João Bordalo, **Vasco Ramos**, Rodrigo Valério, Diogo Glória-Silva, Yonatan Bitton, Michal Yarom, Idan Szpektor, Joao Magalhaes

TWIZ: The Wizard of Multimodal Conversational-Stimulus [↗](#)

2023

Alexa Prize TaskBot Challenge 2 Proceedings

Rafael Ferreira, Diogo Tavares, Diogo Silva, Rodrigo Valério, João Bordalo, Inês Simões, **Vasco Ramos**, David Semedo, Joao Magalhaes

Academic Service

1st Workshop on Long Multi-Scene Video Foundations Generation, Understanding and Evaluation at ICCV 2025 [↗](#)

Oct 2025

Role: Main Organizer