

Fábio Guilherme Morgado Vital

Hi, my name Fábio Vital and I am a PhD student at Instituto Superior Técnico and a researcher at GAIPS, INESC-ID. My advisors are Prof. Francisco S. Melo and Prof. Alberto Sardinha.

My research covers, mainly, Reinforcement Learning, where the question that drives me these days is: Is it possible to create generalized representations that can be applied to new and unseen RL tasks (without further training)? Herein, I am currently researching new ways to learn world-model representations that can be effeciently applied to new tasks during evaluation.

Identification

Personal identification

Full name
Fábio Guilherme Morgado Vital

Citation names

Vital, Fábio

Author identifiers

Ciência ID
4D18-817E-BB4C
ORCID iD
[0000-0003-2710-4590](https://orcid.org/0000-0003-2710-4590)

Email addresses

fabio vital@tecnico.ulisboa.pt (Professional)

Websites

<https://fgmv.me> (Scholar)

Knowledge fields

Engineering and Technology - Electrotechnical Engineering, Electronics and Informatics

Languages

Language	Speaking	Reading	Writing	Listening	Peer-review
Portuguese (Mother tongue)					
English					

Education

	Degree	Classification
2022/09 - 2026/08 Ongoing	PhD in Computer Science and Engineering (Doctor) Major in Phd Universidade de Lisboa Instituto Superior Técnico, Portugal	
2019/09/01 - 2021/11/15 Concluded	Engenharia Informática e de Computadores (Mestrado) Major in Sistemas Inteligentes, Bioinformática e Biologia Computacional Universidade de Lisboa Instituto Superior Técnico, Portugal <i>"Perceive, Represent, Generate: Translating Multimodal Information to Robotic Motion Trajectories"</i> (THESIS/DISSERTATION)	17
2016/09/13 - 2019/07/23 Concluded	Ciências de Engenharia - Engenharia Informática e de Computadores (Licenciatura) Universidade de Lisboa Instituto Superior Técnico, Portugal	17

Affiliation

Science

	Category Host institution/organization	Employer
2021/09/01 - Current	Auxiliary Researcher (Research) Instituto de Engenharia de Sistemas e Computadores Investigação e Desenvolvimento em Lisboa, Portugal (...)	Instituto de Engenharia de Sistemas e Computadores Investigação e Desenvolvimento em Lisboa, Portugal

Teaching in Higher Education

	Category Host institution/organization	Employer
2023/09/01 - 2024/07/31	Invited Assistant (University Teacher) Universidade de Lisboa Instituto Superior Técnico, Portugal	Universidade de Lisboa Instituto Superior Técnico, Portugal

2023/02 - 2023/07	Invited Assistant (University Teacher) Universidade de Lisboa Instituto Superior Técnico, Portugal	Universidade de Lisboa Instituto Superior Técnico, Portugal
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2022/03/07 - 2022/07/28	Invited Assistant (University Teacher) Universidade de Lisboa Instituto Superior Técnico, Portugal	Universidade de Lisboa Instituto Superior Técnico, Portugal
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Projects

Grant

	Designation	Funders
2022/09 - 2026/08	Emergent Communication in Multi-Agent Reinforcement Learning 2022.14163.BD PhD Student Fellow Universidade de Lisboa Instituto Superior Técnico, Portugal Instituto de Engenharia de Sistemas e Computadores Investigação e Desenvolvimento em Lisboa, Portugal	Fundação para a Ciência e a Tecnologia, Portugal Ongoing
2021/09/01 - 2022/08/31	HOTSPOT - Human-robOt TeamS without PrecoOrdinaTion PTDC/CCI-COM/7203/2020 - HOTSPOT - BI 2021/177 Research Fellow Instituto de Engenharia de Sistemas e Computadores Investigação e Desenvolvimento em Lisboa, Portugal	Associação para a Inovação e Desenvolvimento da FCT, Portugal Ongoing

Outputs

Publications

Conference paper	1	Vital, Fábio; José Alberto R. P. Sardinha; Francisco S. Melo. Corresponding author: Vital, Fábio. "Implicit Repair with Reinforcement Learning in Emergent Communication". Paper presented in <i>Autonomous Agents and Multiagent Systems, Detroit, 2025</i> . Accepted
	2	Vital, Fábio; VASCO, MIGUEL; José Alberto R. P. Sardinha; Francisco S. Melo. "Perceive, Represent, Generate: Translating Multimodal Information to Robotic Motion Trajectories". Paper presented in <i>2022 IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS), Kyoto, 2022</i> . Published

Thesis /
Dissertation

1

"Perceive, Represent, Generate: Translating Multimodal Information to Robotic Motion Trajectories". Master, Universidade de Lisboa Instituto Superior Técnico, 2021. <https://fenix.tecnico.ulisboa.pt/cursos/meic-a/dissertacao/1128253548922742>.

Activities

Course / Discipline taught

	Academic session	Degree Subject (Type)	Institution / Organization
2024/04/15 - 2024/07/17	Autonomous Agents and Multi-Agent Systems	Master in Computer Science and Engineering (Master)	Universidade de Lisboa Instituto Superior Técnico, Portugal
2024/04/15 - 2024/07/17	Autonomous Agents and Multi-Agent Systems	Master in Computer Science and Engineering (Mestrado)	Universidade de Lisboa Instituto Superior Técnico, Portugal
2023/11/13 - 2024/02/16	Deep Learning	Master in Computer Science and Engineering (Mestrado)	Universidade de Lisboa Instituto Superior Técnico, Portugal
2023/02 - 2023/04	Planning, Learning and Intelligent Decision Making	Master in Computer Science and Engineering (Master)	Universidade de Lisboa Instituto Superior Técnico, Portugal
2022/05/09 - 2022/06/26	Autonomous Agents and Multi-Agent Systems	Computer Science and Engineering (Master)	Universidade de Lisboa Instituto Superior Técnico, Portugal
2022/03/07 - 2022/04/24	Planning, Learning and Intelligent Decision Making	Computer Science and Engineering (Master)	Universidade de Lisboa Instituto Superior Técnico, Portugal