

Tiago Guiomar Ribeiro Consulting, Advising, Leadership in AI & Animation

- * Autonomous Digital Humans and Characters
- * Human-Robot Interaction

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★ User Experience and Product Vision

♠	www.tiagoribeiro.pt
v	/TiagoGuiomarRibeiro

* LLM fine-tuning and local deployment +351 966 505 303

* Metaverse-directed applications

★ LLMs for Behaviour and Animation

★ LLM adoption/integration, LLM-as-API

(7) /tiagrib

As an AI and autonomous animation scientist and engineer, be it CGI or Robotics, I focus

not only on adopting and inventing state-of-the-art and world-class solutions, technologies and methodologies, but also on aligning new and existing technology with the given technical requirements, and product / business goals and strategy, so that AI can be used to power products and a User-Experience-driven, Cost-Effective and Revenue-Focused manner. I can work as an employee or as an external consultor, tightly integrated into teams at an upper senior, to principal or director roles. **Experience** Skills **Principal Research Engineer** Development Soul Machines · Auckland, New Zealand _____ Python Apr 2023 - May 2024 · Fully remote Lead development of autonomous animation system

- LLMs for behaviour and animation Lead the transfer of research into product
- Plus all from my previous position

Al Animation Scientist & Level II Senior Researcher

Facilitate tech dev feedback to Product Strategy Pipeline and workflow to train, evaluate and integrate

Soul Machines · Auckland, New Zealand

- Jan 2020 Mar 2023 · Fully remote
- Design and develop the skeletal animation system
- Autonomous gesturing, socio-emotional behaviours
- Work with artists for fail-safe natural animated motion
- Invent autonomous animation mechanisms
- Autonomous behaviour design and selection
- Expressive behaviour of emotion and personality
- Measure animate and interactive qualities

Data Scientist & Data Pipeline Engineer

kencko foods · Lisbon, Portugal

Jan 2019 - Nov 2019 · Partially remote

- ETL pipeline Python, BigQuery, Shopify, Stripe
- Data-science BigQuery SQL, DataStudio and Spreadsheets.

HRI Architecture Consultor

Högskolan Väst (University West) · Trollhättan, Sweden September 2018 · Remote

Consulting on HRI architecture for NAO and Pepper

Robot Animation & Unreal Engine Developer

Gagosian Gallery · Brooklyn & New York City, USA Dec 2017 - Mar 2018 · Partially remote

Exhibition 'PLAY', by Urs Fischer and Madeline Hollander

- Robot Animation & tools (Maya, Houdini)
- Interactive behaviour simulation in Unreal Engine

Research Assistant & Technical Direction

GAIPS, INESC-ID · Lisbon and Oeiras, Portugal Feb 2011 - Nov 2017

- Developed HRI platform for projects and robots
- Mentoring & Assistance to MSc and PhD students EMOTE - Embodied Perceptive Tutors for Empathy-Based Learning

2012 – 2015 (EU FP7 Project) Architecture Design & Development

- Robot Behaviour Management & Animation System LiREC - Living with Robots and Embodied Companions
- 2011 2012 (EU FP7 Project) Robot Behaviour Design & Robot Animation System

] C/C++
] C#
Unity Game Engine
Unreal Game Engine

☐ HTML/CSS

Artificial intelligence		
Computer Animation		
Machine Leaning		
Human-Robot Interaction		
Autonomous Socially-Intelligent Agents		
Large Language Models (LLMs)		
Data Science / Analytics		
Generative AI (General)		

Production & Team Skills

Whiteboarding / Miro
Systems Architecture
Mentoring
Product Vision & Strategy
Product / Project Management
Public Presentation
Reporting / Papers / Patents writing

Science & IP

Patents

WO 2023/067531 A1	Virtual Avatar Animation
Pending	Skeletal animation in embodied agents
Publications	(Google Scholar h-index 17)
2020	Modelling Human Motion (book chap, Springer)
2020	Human-Robot Interaction (Springer)
2019	Autonomous Robot (Springer)
2014	Handbook of affective computing (chap, Oxford)
2014-2015-2023	Autonomous Agents Systems (AAMAS conf)
2017	Multimodal Interaction (ICMI conf)
2017	Advances in Artificial Intelligence (AAAI conf)
2017	Robotics: Science and Systems (RSS conf)
2017	Intelligent Interactive Digital Entert. (AIIDE conf)
2012-2013-2015-2016	ACM/IEEE Human-Robot Interaction (HRI conf)
2014-2016	Robot Human Interactive Comm. (RO-MAN conf)
2016	AAAI Spring Symposium Series
2015	Social Robotics (ICSR conf)
2011-2012-2013-2014	Intelligent Virtual Agents (IVA conf)
2014	Interaction Design & Children (IDC conf)
2014	AAAI Fall Symposium on AI-HRI
2013	SIGGRAPH (Poster, Student competition finalist)
2013	Games-Based Learning (ECGL conf)

Academic Duties

Conference org:

- HRI'15 (Pioneers), Al-HRI'15, IVA'22 Peer-reviewing:
- Springer (IJSR, ISR journals), IVA, HRI, RO-MAN, GENEA