# Nuno Ferreira Duarte
Curriculum vitae

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## CONTACT INFORMATION

Nuno Ferreira Duarte
Lisbon, Portugal

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## EDUCATION

2016– Ph. D. student, Joint Ph. D. Degree in Robotics, Brain and Cognition,
Institute for Systems and Robotics (ISR),
Instituto Superior Técnico, University of Lisbon, Lisbon, Portugal, and
LASA, École polytechnique fédérale de Lausanne (EPFL), Switzerland

2016 M. Sc., Decision, Control & Robotics, Electrical and Computer Engineering,
Instituto Superior Técnico, University of Lisbon, Lisbon, Portugal

2014 B. Sc., Electrical and Computer Engineering, Instituto Superior Técnico,
University of Lisbon, Lisbon, Portugal

## PROFESSIONAL EXPERIENCE

2019 Certificate of Proficiency in English (CPE), Cambrigde
2015 Research Intern, Caltech, California
2011 Robotic's National Festival, Instituto Superior Técnico, Lisbon

## PUBLICATIONS

2020 From human action understanding to robot action execution: how the physical properties of handled objects modulate non-verbal cues, *IEEE International Conference on Robot and Human Interactive Communication*

2020 Benchmark for Human-to-Robot Handovers of Unseen Containers with Unknown Filling, *IEEE Robotics and Automation Letters*

2019 Coupling of Arm Movements during Human-Robot Interaction: the handover case, *IEEE International Conference on Robot and Human Interactive Communication*

2019 Biologically Inspired Controller of Human Action Behaviour for aHumanoid Robot in a Dyadic Scenario, *IEEE EUROCON*

2018 Action Alignment from Gaze Cues in Human-Human and Human-Robot Interaction, *European Conference on Computer Vision - ECCV 18 Workshop*

2018 A dataset of head and eye gaze during dyadic interaction task for modeling robot gaze behavior, *International Conference on Electromechanics and Robotics "Zavalishin's Readings"*

2018 Action Anticipation: Reading the Intentions of Humans and Robots, *IEEE Robotics and Automation Letters*

2018 GeeBot: A Robotic Platform for Refugee Integration, *ACM/IEEE International Conference on Human-Robot Interaction*

2018 Experiments with Vizzy as a Coach for Elderly Exercise, *ACM/IEEE International Conference on Human-Robot Interaction*

## MANUSCRIPTS IN SUBMISSION

Learning Motor Resonance in Human-Human and Human-Robot Interaction with Coupled Dynamical Systems

## MANUSCRIPTS IN PREPARATION

The Gaze Dialogue:
  Non-verbal communication in Human-Human and Human-Robot Interaction

## PRESENTATIONS

**Conference talks**

2020  "From human action understanding to robot action execution: how the physical properties of handled objects modulate non-verbal cues", IEEE RO-MAN in Chile (Online). October 26–30.

2019  "Coupling of Arm Movements during Human-Robot Interaction: the handover case", IEEE RO-MAN in New Delhi, India. October 14–18.

2019  "Biologically Inspired Controller of Human Action Behaviour for aHumanoid Robot in a Dyadic Scenario", IEEE EUROCON in Novi Sad, Serbia. July 1–4.

2018  "Studying the human behavior in dyadic interactions and applications to human-robot interactions", Mind Brain College in Lisbon, Portugal. November 14–15.

2018  "Action Alignment from Gaze Cues in Human-Human and Human-Robot Interaction", The Conference in Munique, Germany. September 8–14.

2018  "Studying the human behavior in dyadic interactions and applications to human-robot interactions", LARSys Meeting in Lisbon, Portugal. June 14–15.

2018  "A dataset of head and eye gaze during dyadic interaction task for modeling robot gaze behavior", The Conference in Saint Petersburg, Russia. April 18–21.

2018  "GeeBot: A Robotic Platform for Refugee Integration", The Conference in Chicago, USA. March 5–8.

2018  "Experiments with Vizzy as a Coach for Elderly Exercise", The Conference in Chicago, USA. March 5–8.

**Departmental talks**

2020  Vislab, Institute Systems and Robotics (ISR), University of Lisbon. April 14. "From human action understanding to robot action execution: how the physical proper-ties of handled objects modulate non-verbal cue"

2019  Vislab, Institute Systems and Robotics (ISR), University of Lisbon. March 12. "A Dataset Design for Human-Human and Human-Robot Collaboration"

2019  Vislab, Institute Systems and Robotics (ISR), University of Lisbon. January 29. "On going work of my Ph.D."

2018  LASA, EPFL, Lausanne, Switzerland. September 21. "Studying the human non-verbal communication behavior in dyadic interactions and applications to human-robot interactions"

2018  Vislab, Institute Systems and Robotics (ISR), University of Lisbon. September 4. "Action Alignment from Gaze Cues in Human-Human and Human-Robot Interaction"

2018  Vislab, Institute Systems and Robotics (ISR), University of Lisbon. May 8. "A Dataset of Head and Eye Gaze during Dyadic Interaction Task For Modeling Robot Gaze Behavior"

2018  Vislab, Institute Systems and Robotics (ISR), University of Lisbon. January 16. "GeeBot - A robotic platform for refugee integration"

2017   Vislab, Institute Systems and Robotics (ISR), University of Lisbon. October 17. "Action
       Anticipation: Reading the Intentions of Humans and Robots"
2017   Vislab, Institute Systems and Robotics (ISR), University of Lisbon. March 28. "Facili-
       tating Intention Prediction for Humans by Optimizing Robot Motions"

## PROFESSIONAL SERVICE

2020   Reviewer for IEEE/RSJ International Conference on Intelligent Robots and Systems
2020   Reviewer for Journal John Benjamins - Interaction Studies
2020   Reviewer for IEEE International Conference on Robotics and Automation
2019   Reviewer for IEEE/RSJ International Conference on Intelligent Robots and Systems
2018   Reviewer for IEEE International Conference on Robotics and Automation
2018   Reviewer for Journal of Frontiers in Robotics and AI
2018   Reviewer for IEEE International Conference on Robotics and Automation
2017   Reviewer for IEEE International Symposium on Intelligent Systems and Informatics
2017   Reviewer for IEEE International Conference on Advanced Intelligent Mechatronics

## COMPUTER SKILLS

**Programming**
Python, Matlab, C++

**Software development**
Linux, Ubuntu, GitHub, Pupil, OptiTrack, YARP, ROS

## LANGUAGES

Portuguese (Native)
English (Native) - CPE Cambridge
Spanish (Elementary)

## REFERENCES

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