

## EDUCATION

### Ph.D. in Computer Science and Engineering | Joint Degree

Lisbon, Portugal & Lausanne, Switzerland

ÉCOLE POLYTECHNIQUE FÉDÉRALE DE LAUSANNE (EPFL)

NOV. 2016 - OCT. 2021

INSTITUTO SUPERIOR TÉCNICO (IST), UNIVERSITY OF LISBON

FEB. 2017 - OCT. 2021

– Thesis: “Exploring Spatial Perspective Taking in Human-Robot Interaction”, supervisors: Prof. Ana Paiva and Prof. Pierre Dillenbourg

### M.Sc. in Mechanical Engineering | Acoustics, Noise, and Vibration

Daejeon, South Korea

KOREA ADVANCED INSTITUTE OF SCIENCE AND TECHNOLOGY (KAIST)

SEP. 2012 - FEB. 2015

– Thesis: “Acoustic Localization of Small Leak Holes in Long Pipeline”, supervisor: Prof. Ih Jeoung Gong | GPA: 3.75 out of 4.3

### B.Sc. in Mechanical Engineering

Tehran, Iran

SHARIF UNIVERSITY OF TECHNOLOGY

SEP. 2007 - AUG. 2011

– Thesis: “Design of Knee Exoskeleton Mechanism to Assist Walking”, supervisor: Prof. Hassan Zohoor | GPA: 15.27 out of 20

## ACADEMIC EXPERIENCE

### Division of Robotics, Perception, and Learning (RPL) 🌐, KTH Royal Institute of Technology

Stockholm, Sweden

POSTDOCTORAL RESEARCH FELLOW

OCT. 2021 - Present

– Conduct research on explainability in robotics and autonomous vehicles and supervise students  
– Lead the industrial collaborations between our group and industrial partners of a VINNOVA Competence Center on Edge Computing (TECoSA)

### TeleRobotics and Control Laboratory (TCL Lab), KAIST

Daejeon, South Korea

POST GRADUATE RESEARCHER

APR. 2015 - FEB. 2016

– Started research in the field of human-robot interaction under the supervision of Prof. Kwon Dong Soo

### Acoustics Lab | Noise and Vibration Center (NoViC), KAIST

Daejeon, South Korea

POST GRADUATE RESEARCHER

SEP. 2014 - FEB. 2015

– Conducted research in the field of acoustics under the supervision of Prof. Jeong-Guon Ih, dean of the Mechanical Engineering Department

## WORK EXPERIENCE

### Artificial Intelligence for People and Society (GAIPS)

Lisbon, Portugal

LAB MANAGER | PART TIME

FEB. 2020 - SEP. 2021

– Administered the allocation of funds to run experiments and managed the servers, robots, and equipment purchases | team of three

### SM Instruments Inc.

Daejeon, South Korea

INTERNATIONAL MARKETING ENGINEER | FULL TIME

FEB. 2016 - OCT. 2016

– Promoted “Sound Camera” to the automotive industry and collaborated with the company’s US partner “National Instruments Corporation”

## TEACHING EXPERIENCE

### Social Robotics | Master and PhD Level Course | 20-30 Students

Stockholm, Sweden

KTH ROYAL INSTITUTE OF TECHNOLOGY | INSTRUCTOR

Fall 2021 - Fall 2022 - Fall 2023

### Social Robotics and Human-Robot Interaction | Master Level course | 20 Students

Lisbon, Portugal

INSTITUTO SUPERIOR TÉCNICO (IST), UNIVERSITY OF LISBON | TEACHING ASSISTANT

Fall 2020

### Introduction to Visual Informatics | Bachelor Level Course | 110 Students

Lausanne, Switzerland

ÉCOLE POLYTECHNIQUE FÉDÉRALE DE LAUSANNE (EPFL) | TEACHING ASSISTANT

Spring 2017, Spring 2018

### Programming C | bachelor Level Course | 120 Students

Lausanne, Switzerland

ÉCOLE POLYTECHNIQUE FÉDÉRALE DE LAUSANNE (EPFL) | TEACHING ASSISTANT

Fall 2017

## GRANTS AND FELLOWSHIPS

2017 **Joint PhD Scholarship.** Robotics, Brain and Cognition PhD program between EPFL in Switzerland and IST in Portugal supported by Foundation for Science and Technology (FCT)PD/BD/135150/2017. FCT, Portugal

2012 **Korean Government Scholarship.** Master of Science program in Mechanical Engineering at KAIST including tuition and monthly stipend. KAIST, South Korea

## SUPERVISION EXPERIENCE

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2023	<b>Abriansyah Arisoni. M.Sc. Thesis Project at KTH Royal Institute of Technology</b>   “Human Factors Involved in Explainability of Autonomous Driving” to be submitted to HRI 2024   Grade: Pass	Stockholm, Sweden
2022	<b>Joao Almeida. M.Sc. Thesis Project at KTH Royal Institute of Technology</b>   “Understanding the Link b/w Robots Taking Humans Perspective and Humans Exhibiting Prosocial Behaviour” published in HRI 2023   Grade: Pass	Stockholm, Sweden
2021-2022	<b>Miguel Monteiro. M.Sc. Thesis Project at Instituto Superior Técnico</b>   Co-supervised with Ana Paiva, Title: “Gamified activity for learning perspective taking”, published in HAI 2023   Grade: 16/20	Lisbon, Portugal

## HONORS AND AWARDS

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2020	<b>Best Student Paper Award.</b> Awarded to “Explainable Agency by Revealing Sub-optimality in Child-Robot Learning Scenarios” at the International Conference on Social Robotics, ICSR 2020.	Colorado, U.S.A. (Virtual)
2020	<b>Future Digileaders 2020.</b> Grant to travel to Sweden after travel restrictions are lifted.	Stockholm, Sweden (Virtual)
2020	<b>HRI Pioneers Workshop 2020 Travel Grant.</b> A premiere forum for graduate students in HRI.	Cambridge, U.K. (Virtual)
2018	<b>Norman Foster Foundation Robotic Atelier Travel Grant.</b> Only selected 10 scholars.	Madrid, Spain
2018	<b>CCI Student Best Paper Award.</b> Awarded to “When Deictic Gestures in a Robot Can Harm Child-Robot Collaboration” to at Interaction Design and Children Conference, IDC 2018.	Trondheim, Norway
2018	<b>Honorable Mention in Best Paper Award.</b> Awarded to “When Deictic Gestures in a Robot Can Harm Child-Robot Collaboration” to at Interaction Design and Children Conference, IDC 2018.	Trondheim, Norway

## SELECTED PUBLICATIONS

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- [SP7] Khanna, P., **Yadollahi, E.**, Björkman, M., Leite, I., & Smith, C. (2023, August). Effects of Explanation Strategies to Resolve Failures in Human-Robot Collaboration. In Proceedings of the 2023 32nd IEEE International Conference on Robot and Human Interactive Communication (RO-MAN). IEEE. [**\* denotes Equal Contribution**]
- [SP6] Almeida, J. T., Leite, I., & **Yadollahi, E.** (2023, March). Would You Help Me? Linking Robot’s Perspective-Taking to Human Prosocial Behavior. In Proceedings of the 2023 ACM/IEEE International Conference on Human-Robot Interaction (pp. 388-397). [**Supervisor**]
- [SP5] Oliveira, R., & **Yadollahi, E.** (2023). Robots in movies: a content analysis of the portrayal of fictional social robots. Behaviour & Information Technology, 1-18.
- [SP4] **Yadollahi, E.**, Couto, M., Dillenbourg, P., & Paiva, A. (2022, June). Do Children Adapt Their Perspective to a Robot When They Fail to Complete a Task?. In Interaction Design and Children (pp. 341-351).
- [SP3] Tulli, S., Couto, M., Vasco, M., **Yadollahi, E.**, Melo, F., & Paiva, A. (2020, November). Explainable Agency by Revealing Suboptimality in Child-Robot Learning Scenarios. In Social Robotics: 12th International Conference, ICSR 2020, Golden, CO, USA, November 14–18, 2020, Proceedings (pp. 23-35). Cham: Springer International Publishing. [**Best Paper Award Recipient**]
- [SP2] **Yadollahi, E.**, Couto, M., Johal, W., Dillenbourg, P., & Paiva, A. (2020, July). Exploring the role of perspective taking in educational child-robot interaction. In Artificial Intelligence in Education: 21st International Conference, AIED 2020. Springer International Publishing.
- [SP1] **Yadollahi, E.**, Johal, W., Paiva, A., & Dillenbourg, P. (2018, June). When deictic gestures in a robot can harm child-robot collaboration. In Proceedings of the 17th ACM Conference on Interaction Design and Children (pp. 195-206). [**Best Paper Award Recipient**]

## SELECTED SERVICE AND LEADERSHIP

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<b>International Journal of Child-Computer Interaction (IJCCI)</b> ASSOCIATE EDITOR   ELSEVIER	Stockholm, Sweden MAY 2022 - Present
<b>Annual EUGAIN Workshop collocated with ACM’s womENCourage 2023 conference</b> CO-ORGANIZER	Trondheim, Norway APR. 2023 - Present
<b>International Conference on Human-Agent Interaction (HAI)</b> CO-CHAIR OF WORKSHOP TRACK	Göteborg, Sweden FEB. 2023 - Present
<b>ACM Interaction Design and Children Conference (IDC)</b> CO-CHAIR OF RESEARCH AND DESIGN CHALLENGE	Chicago, USA OCT. 2022 - JUN. 2023

## SKILLS AND INTERESTS

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<b>Tools and Languages</b>	Python, R, C#, MATLAB, C++, Unity Game Engine, IBM SPSS, SolidWorks, AutoCAD, CATIA, $\LaTeX$
<b>Languages</b>	English (Fluent [TOEFL 105, GRE 321]), Persian (Native), Korean (B2), French (A2), Swedish (A1)
<b>Societies and Networks</b>	The consulting Society EPFL 🌐, EPFelles: EPFL Female Student Association 🌐, NCCR Robotics 🌐
<b>Interests</b>	Extreme Sports e.g. skydiving and paragliding, Photography, Traveling, Painting, Basketball