





Patrícia Alves-Oliveira

PhD Candidate
Human-Robot Interaction

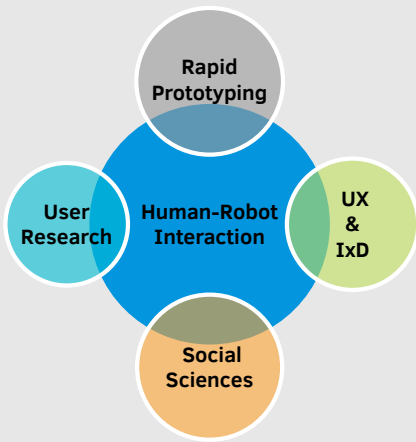
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 patricialvesoliveira

Skills



Methods & tools

psychology • user studies • field research • quantitative and qualitative research • design thinking • robot design and fabrication • user-centered design • participatory design • 3D modeling • 3D printing • laser cutting

Education

PhD in Human-Robot Interaction

2015 | Ongoing

Department of Psychology, Mechanical Engineering, and Computer Science
ISCTE-IUL, Cornell University, GAIPS
Lisbon, Portugal & NY, USA

Master of Psychology

Department of Psychology | 2012
University of Aveiro
Aveiro, Portugal

Bachelor in Psychological Sciences

Department of Psychology | 2009
Higher Institute of Applied Psychology
Lisbon, Portugal

Last update: 8 Nov 2018

Statement

My research passion lies on the design of interactive technologies that have the potential to unleash intrinsic humane qualities, such as creativity. My expertise concerns the study of human behavior to design joyful interactions between people and automated technologies, like robots. I rely on methods from psychology and design research to create interactions with technological objects.

Awards

2018	Scientific Publication Award	ISCTE-IUL
2018	Best Poster and Presentation Award	BMW Summer School
2017	Best Serious Game Award	Serious Games Society
2016	Best Video Award Nomination	HRI Conference
2016	Best Design Paper Award	HRI Conference
2016	Honorable Mention	XII PhD Meeting in Social and Organizational Psychology

Funding

2015 – 2020	Graduate Research Fellowship – Proj SFRH/BD/110223/2015	Funded by the Portuguese Foundation for Science, Technology, and Innovation PhD student EUR 47.040
2016 – 2018	AMIGOS – Affect Modeling for robots In GrOup Social interactions	Funded by the Portuguese Foundation for Science, Technology, and Innovation Research Assistant EUR 198.430
2012 – 2016	EMOTE – EMBOdied-perceptive Tutors for Empathy-based learning	Funded by the European Commission under FP7-ICT Program Research Assistant EUR 3.707,952
2018	BMW Summer School "Intelligent Cars on Digital Roads"	Travel Grant Munich, Germany
2018	MIT Media Lab Prototyping Workshop "Signal & Noise"	Travel Grant Berlin, Germany
2016	HRI Conference Pioneers	Travel Grant Christchurch, New Zealand

Publications

Book Chapters

Filipa Correia, Sofia Petisca, Samuel Mascarenhas, Ana Paiva, and **Patrícia Alves-Oliveira**. Towards More Humane Machines: Creating Emotional Social Robots. In S. G. Silva (Eds), *New Interdisciplinary Landscapes in Morality and Emotion*, Chapter 9. Routledge, 2018.

Journal Articles

J4. Filipa Correia, Sofia Petisca, **Patrícia Alves-Oliveira**, Tiago Ribeiro, Francisco S. Melo, and Ana Paiva. "I Choose... YOU!" Membership Preferences in Human-Robot Teams. *Autonomous Robots*, 2018.

Invited Submission. Impact Factor 2.244, H-Index 91, Quartile 1

J3. **Patrícia Alves-Oliveira**, Joana Carvalho, Jacqueline Ferreira, Laura Alho, Pedro Nobre, Mats J. Olsson, and Sandra Soares. Influence of Body Odors and Gender on Perceived Genital Arousal. *Archives of Sexual Behavior*, 2018.

Impact Factor 3.223, H-Index 88, Quartile 1

J2. Sofia Serholt, Wolmet Barendregt, Asimina Vasalou, **Patrícia Alves-Oliveira**, Aidan Jones, Sofia Petisca, and Ana Paiva. The Case of Classroom Robots: Teachers' Deliberations on the Ethical Tensions. *AI & SOCIETY*, 2017.

Impact Factor 0.175, H-Index 23, Quartile 2

J1. Joana Campos, **Patrícia Alves-Oliveira**, and Ana Paiva. Looking for Conflict: Gaze Dynamics in a Dyadic Mixed-Motive Game. *Autonomous Agents and Multi-Agent Systems*, 2015.

Impact Factor 1.176, H-Index 61, Quartile 2

Conference Papers [Full Length, Peer-Reviewed]

C21. Raquel Oliveira, Patrícia Arriaga, **Patrícia Alves-Oliveira**, Filipa Correia, Sofia Petisca, and Ana Paiva. Friends or Foes? Socioemotional Support and Gaze Behaviors in Mixed Groups of Humans and Robots. 13th ACM/IEEE International Conference on Human-Robot Interaction, HRI 2018.

Acceptance rate 24%

C20. Miguel Faria, Rui Silva, **Patrícia Alves-Oliveira**, Francisco S. Melo, and Ana Paiva. "Me and You Together" Movement Impact in Multi-user Collaboration Tasks. IEEE/RSJ International Conference on Intelligent Robots and Systems, IROS 2017.

Acceptance rate 45%

C19. André Pires, **Patrícia Alves-Oliveira**, Patrícia Arriaga, Carlos Martinho. CUBUS: Autonomous Embodied Characters to Stimulate Creative Idea Generation in Groups of Children. International Conference on Intelligent Virtual Agents, IVA 2017.

Acceptance rate 78%

C18. Filipa Correia, **Patrícia Alves-Oliveira**, Tiago Ribeiro, Francisco S. Melo, and Ana Paiva. A Social Robot as a Card Game Player. 13th AAAI Conference on Artificial Intelligence and Interactive Digital Entertainment, AIIDE 2017.

Acceptance rate N/A.

C17. Filipa Correia, Sofia Petisca, **Patrícia Alves-Oliveira**, Tiago Ribeiro, Francisco S. Melo, and Ana Paiva. Groups of Humans and Robots: Understanding Membership Preferences and Team Formation. 13th Robotics: Science and Systems, RSS 2017.

Acceptance rate 40%

C16. Sofia Serholt, Wolmet Barendregt, Dennis Küster, Aidan Jones, **Patrícia Alves-Oliveira**, and Ana Paiva. Students' Normative Perspectives on Classroom Robots. What Social Robots Can and Should Do: Proceedings of Robophilosophy/TRANSOR 2016.

Acceptance rate N/A.

C15. Beatriz Q. Ferreira, Kelly Karipidou, Filipe Rosa, Sofia Petisca, **Patrícia Alves-Oliveira**, and Ana Paiva. A Study on Trust in a Robotic Suitcase. 8th International Conference on Social Robotics, ICSR 2016.

Acceptance rate 92%

C14. Beatriz Bernardo, **Patrícia Alves-Oliveira**, M. G. Santos, Francisco S. Melo, and Ana Paiva. An Interactive Tangram Game for Children with Autism. 16th International Conference on Intelligent Virtual Agents, IVA 2016.

Acceptance rate 83%

C13. Miguel Faria, Andrea Costigliola, **Patrícia Alves-Oliveira**, and Ana Paiva. Follow Me: Communicating Intentions with a Spherical Robot. 25th International Symposium on Robot and Human Interactive Communication, RO-MAN 2016.

Acceptance rate 47%

C12. Filipa Correia, **Patrícia Alves-Oliveira**, Nuno Maia, Tiago Ribeiro, Sofia Petisca, Francisco S. Melo, and Ana Paiva. “Just Follow the Suit!” Trust in Human-Robot Interactions During Card Game Playing. 25th International Symposium on Robot and Human Interactive Communication, RO-MAN 2016.

Acceptance rate 47%

C11. **Patrícia Alves-Oliveira**, Pedro Sequeira, and Ana Paiva. The Role that an Educational Robot Plays. 25th International Symposium on Robot and Human Interactive Communication, RO-MAN 2016. Acceptance rate 47%

C10. Sofia Petisca, João Dias, **Patrícia Alves-Oliveira**, and Ana Paiva. Emotional Sharing Behavior for a Social Robot in a Competitive Setting. 25th International Symposium on Robot and Human Interactive Communication, RO-MAN 2016. Acceptance rate 47%

C9. Shruti Chandra, **Patrícia Alves-Oliveira**, Séverin Lemaignan, Pedro Sequeira, Ana Paiva, and Pierre Dillenbourg. Children’s Peer Assessment and Self-Disclosure in the Presence of an Educational Robot. 25th International Symposium on Robot and Human Interactive Communication, RO-MAN 2016. Acceptance rate 47%

C8. Pedro Sequeira, **Patrícia Alves-Oliveira**, Tiago Ribeiro, Eugenio Di Tullio, Sofia Petisca, Francisco S. Melo, Ginevra Castellano, and Ana Paiva. Discovering Social Interaction Strategies for Robots from Restricted-Perception Wizard-of-Oz Studies. 11th ACM/IEEE International Conference on Human-Robot Interaction, HRI 2016. Best Design Paper. Acceptance rate 25%

C7. Hang Yin, **Patrícia Alves-Oliveira**, Francisco S. Melo, Aude Billard, and Ana Paiva. Synthesizing Robotic Handwriting Motion by Learning from Human Demonstrations. 25th International Joint Conference on Artificial Intelligence, IJCAI 2016. Acceptance rate 24%

C6. Shruti Chandra, **Patrícia Alves-Oliveira**, Séverin Lemaingam, Pedro Sequeira, Ana Paiva, and Pierre Dillenbourg. Can a Child Feel Responsible in the Presence of a Robot in a Collaborative Learning Activity? 24th IEEE International Symposium on Robot and Human Interactive Communication, RO-MAN 2015. Acceptance rate 84%

C5. Aidan Jones, Dennis Küster, Christina A. Basedow, **Patrícia Alves-Oliveira**, Sofia Serholt, Helen Hastie, Lee J. Corrigan, Wolmet Barendregt, Arvid Kappas, Ana Paiva, and Ginevra Castellano. Empathic Robotic Tutors for Personalised Learning: A Multidisciplinary Approach. 7th International Conference on Social Robotics, ICSR 2015.

Acceptance rate 55%

C4. Mohammad Obaid, Wolmet Barendregt, **Patrícia Alves-Oliveira**, Ana Paiva, Morten Fjeld. Designing Robotic Teaching Assistants: Interaction Design Students’ and Children’s Views. 7th International Conference on Social Robotics, ICSR 2015.

Acceptance rate 55%

C3. **Patrícia Alves-Oliveira**, Sofia Petisca, Filipa Correia, Nuno Maia, and Ana Paiva. Social Robots for Older Adults: Framework of Activities for Aging in Place with Robots. 7th International Conference on Social Robotics, ICSR 2015.

Acceptance rate 55%

C2. **Patrícia Alves-Oliveira**, Tiago Ribeiro, Sofia Petisca, Eugenio Di Tullio, Francisco S. Melo, and Ana Paiva. Empathic Robotic Tutor for School Classrooms: Considering Expectation and Satisfaction of Children as End-Users. 7th International Conference on Social Robotics, ICSR 2015.

Acceptance rate 55%

C1. **Patrícia Alves-Oliveira**, Srini Janarthanam, Ana Candeias, Amol Deshmukh, Tiago Ribeiro, Helen Hastie, Ana Paiva, and Ruth Aylett. Towards Dialogue Dimensions for a Robotic Tutor in Collaborative Learning Scenarios. 23rd IEEE International Symposium on Robot and Human Interactive Communication, RO-MAN 2014.

Acceptance rate 72%

Short Conference Papers [Peer-Reviewed]

S2. **Patrícia Alves-Oliveira**, Ankita Chandak, Ian Cloutier, Priyanka Kompella, Peter Moegenburg, and André Pires. YOLO – A Robot that will Make Your Creativity BOOM.

ACM/IEEE International Conference on Human-Robot Interaction, HRI 2018.
Acceptance rate 24%

S1. **Patrícia Alves-Oliveira**, Patrícia Arriaga, Ana Paiva, and Guy Hoffman. YOLO, a Robot for Creativity: A Co-Design Study with Children. Conference on Interaction Design and Children, IDC 2017.
Acceptance rate 21%

Video Papers [Peer-Reviewed]

V3. Filipa Correia, Tiago Ribeiro, **Patrícia Alves-Oliveira**, Nuno Maia, Francisco S. Melo, and Ana Paiva. SUECA – Building a Social Robot as a Game Companion in a Card Game. 11th ACM/IEEE International Conference on Human-Robot Interaction, HRI 2016.

Nomination Best Video. Acceptance rate 75%

V2. Lynne Hall, Colette Hume, Sarah Tazzyman, Amol Deshmukh, Srini Janarthanam, Helen Hastie, Ruth Aylett, Ginevra Castellano, Fotios Papadopoulos, Aidan Jones, Lee Corrigan, Ana Paiva, **Patrícia Alves-Oliveira**, Tiago Ribeiro, Wolmet Barendregt, Sofia Serholt, Arvid Kappas, and Lee J. Corrigan. Map Reading with an Empathic Robot Tutor. 11th ACM/IEEE International Conference on Human-Robot Interaction, HRI 2016.

Acceptance rate 75%

V1. Tiago Ribeiro, **Patrícia Alves-Oliveira**, Eugenio Di Tullio, Sofia Petisca, Pedro Sequeira, Amol Deshmukh, Srini Janarthanam, Mary Ellen Foster, Aidan Jones, Lee J. Corrigan, Fotios Papadopoulos, Helen Hastie, Ruth Aylett, Ginevra Castellano, and Ana Paiva. The Empathic Robotic Tutor: Featuring the NAO Robot. 10th Annual ACM/IEEE International Conference on Human-Robot Interaction, HRI 2015.

Acceptance rate 90%

Workshop Papers [Peer-Reviewed]

W9. André Pires, **Patrícia Alves-Oliveira**, and Carlos Martinho. A big Applause for CUBUS: A Virtual Sandbox to Stimulate Ideas in Children. Co-Creation Workshop at International Conference on Computational Creativity, ICCV 2017.

W8. **Patrícia Alves-Oliveira**, Ana Paiva, Patrícia Arriaga, and Guy Hoffman. The Robot-Creativity Project. Doctoral Consortium at Interaction Design for Children, IDC 2017.

W7. **Patrícia Alves-Oliveira**, Patrícia Arriaga, Guy Hoffman, and Ana Paiva. Multiple Robots for Multiple Children: Co-Designing Movement for Robots with Personality. Workshop on Groups in Human-Robot Interaction at International Symposium on Robot and Human Interactive Communication, RO-MAN 2017.

W6. Filipa Correia, Patrícia Arriaga, Sofia Petisca, **Patrícia Alves-Oliveira**, Raquel Oliveira, Samuel Mascarenhas, Iolanda Leite, Francisco S. Melo, and Ana Paiva. Groups of Humans and Robots: The AMIGOS Project. Workshop on Groups in Human-Robot Interaction at International Symposium on Robot and Human Interactive Communication, RO-MAN 2017.

W5. **Patrícia Alves-Oliveira**, Patrícia Arriaga, Guy Hoffman, and Ana Paiva. Boosting Children's Creativity through Creative Interactions with Social Robots. PIONEERS Workshop at 11th ACM/IEEE International Conference on Human-Robot Interaction, HRI 2016.

W4. **Patrícia Alves-Oliveira**, and Ana Paiva. Challenges in Child-Robot Interaction: The Cases of Two Research Projects. Workshop on Child-Robot Interaction: Research, Methodology, and Best Practices at International Conference on Social Robotics, ICSR 2014.

W3. Tiago Ribeiro, André Pereira, Eugenio Di Tullio, **Patrícia Alves-Oliveira**, and Ana Paiva. From Thalamus to Skene: High-Level Behavior Planning and Managing for Mixed-Reality Characters. Workshop Architectures and Standards for IVAs at Intelligence Virtual Agents, IVA 2014.

W2. **Patrícia Alves-Oliveira**, Sofia Petisca, Srini Janarthanam, Helen Hastie, and Ana Paiva. "How do you Imagine Robots?" Children's Expectations about Robots.

Workshop on Social Bonding, Learning, and Ethics at Interaction Design for Children, IDC 2014.

W1. Wolmet Barendregt, Sofia Serholt, Arvid Kappas, Christina Basedow, Ana Paiva, **Patrícia Alves-Oliveira**, Asimina Vasalou, and Carl Heath. Child-Robot Interaction: Social Bonding, Learning and Ethics. Workshop on Social Bonding, Learning, and Ethics at Interaction Design for Children, IDC 2014.

Technical Reports

TR4. **Patrícia Alves-Oliveira**, Richard G. Freedman, Dan Grollman, Laura Herlant, Laura Humphrey, Fei Liu, Ross Mead, Frank Stein, Tom Williams, and Shomir Wilson. Reports on the 2016 AAI Fall Symposium Series. AI Magazine 2017.

TR3. **Patrícia Alves-Oliveira**, Dennis Küster, Arvid Kappas, and Ana Paiva. Psychological Science in HRI: Striving for a More Integrated Field of Research. Artificial Intelligence and Human-Robot Interaction, AAI Fall Symposium Series 2016.

TR2. **Patrícia Alves-Oliveira**, Pedro Sequeira, Eugenio Di Tullio, Sofia Petisca, Carla Guerra, and Ana Paiva. "It's amazing we are all feeling it!" Emotional Climate as a Group-Level Emotional Expression in HRI. Artificial Intelligence and Human-Robot Interaction, AAI Fall Symposium Series 2015.

TR1. **Patrícia Alves-Oliveira**, Eugenio Di Tullio, Tiago Ribeiro, and Ana Paiva. Meet Me Halfway: Eye Behaviour as an Expression of Robot's Language. Artificial Intelligence and Human-Robot Interaction, AAI Fall Symposium Series 2014.

Teaching

Fall 2016 & 2018 **Teaching Assistant** Technical University of Lisbon

- Course: Social Robots and Human-Robot Interaction

Spring 2016 **Teaching Assistant** ISCTE-IUL

- Course: Learning, Motivation and Emotions
- Course: Academic Competencies II

Mentoring

2013 – 2017 **Research Mentor to Masters Students** Technical University of Lisbon

- Filipa Correia. Thesis: "Emys: A Social Robot that Plays Sueca." Publications: C3, C12, C18, V3.
- Miguel Faria. Thesis: "Me and You Together: Collaboration Between a Robot and a Human in a Manipulation Game". Publications: C13, C20.
- André Pires. Thesis: "Synthetic Characters for Creative Child-Computer Interaction". Publications: C19, W9.

Outreach and collaborations

2018 **European Researchers Night** European Researchers Night

2018 **Kid's Science Day** Cornell University

2018 **Medium Design Collective** Raw Exhibition

2017 **European Researchers Night** European Researchers Night

2015 **Innovate Connect, Transform** ICT

Professional Experience

- 2015 – 2020 **PhD student at The Robot-Creativity Project** [Project website](#)
- Design and development of social robots for children with the overarching goal of boosting their creativity during play.
 - Publications: C19, S1, S2, W5, W7, W8, W9.
 - Advisors: Patrícia Arriaga (ISCTE-IUL), Ana Paiva (Instituto Superior Técnico), Guy Hoffman (Cornell University)
- 2016 – 2019 **Graduate Research Assistant at AMIGOS Project** [AMIGOS website](#)
- Investigating the role of emotions and adaptation in interactions between a robot and a group of users, contrasting to the typical one-robot one-user paradigm in HRI.
 - Publications: J4, C12, C17, C18, C21, W6.
 - Advisor: Ana Paiva (Instituto Superior Técnico), Patrícia Arriaga (ISCTE-IUL).
- Jun 2017 – Aug 2017 **Summer Intern at IDC Media Innovation Lab** [miLAB website](#)
- Learning new methods for fabricating a creativity-seeking robot.
 - Advisor: Guy Hoffman (Cornell University).
- 2015 – 2016 **Graduate Research Assistant at PARCEIRO project** [PARCEIRO website](#)
- Exploring how social robots can be used for entertainment, in scenarios such as tabletop card games.
 - Publications: C3, V3.
 - Advisor: Ana Paiva, Instituto Superior Técnico.
- 2014 – 2016 **Graduate Research Assistant at Co-Writer** [Co-Writer website](#)
- Development of a robot that can help children with the acquisition of handwriting skills.
 - Publications: C6, C7, C9,
 - Advisors: Ana Paiva (Instituto Superior Técnico), Aude Billard (EPFL), Pierre Dillenbourg (EPFL).
- 2013 – 2015 **Graduate Research Assistant at EMOTE Project** [EMOTE website](#)
- Development of an empathic robotic tutor for personalized individual group learning settings.
 - Publications: J2, C1, C2, C4, C5, C8, C11, C16, V1, V2, W1–W4, TR1–TR3.
 - Advisor: Ana Paiva, Instituto Superior Técnico

Service

- 2014 – 2018 **Organizing Committee**
- 2017 Local organizer Summer School on Social HRI [[website](#)]
 - 2017 PC Chair HRI Pioneers Workshop [[website](#)]
 - 2016 PC Chair AAAI Fall Symposium AI for HRI [[website](#)]
 - 2016 PC Chair XII PhD Meeting in Social and Organizational Psychology
 - 2014 Workshop organizer at IDC Conference on Child-Robot Interaction: Social Bonding, Learning and Ethics
- 2014 – 2018 **Reviewer**
- Conferences: CHI, HRI, IDC, TEI, RO-MAN, ICSR, HAI, ICRA
 - Recognized for excellence in reviewing: CHI
 - Journals: International Journal of Social Robotics, Interaction Studies, Frontiers in Robotics and AI

2016 &
2017

Volunteer

- HRI 2016, Christchurch, New Zealand
- IDC 2017, Palo Alo, California