

# Patrícia Alves-Oliveira

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Paul G. Allen School of Computer Science and Engineering

University of Washington, Seattle

## RESEARCH OVERVIEW

Democratize health and education with social robots. Develop evidence-based interventions for social robots to promote self care and well being. Creation of methods to include minorities in social robot design. At the intersection of the fields of Human-Robot Interaction (HRI), Human-Centered Design (HCD), and Artificial Intelligence (AI).

## RESEARCH EXPERIENCE

<b>Postdoctoral Research Associate</b> Paul G. Allen School of Computer Science & Engineering, University of Washington, Seattle WA USA <a href="#">Human-Centered Robotics Lab</a> — PI: Prof. Maya Cakmak	2020 - Present
<b>Visiting Graduate Researcher</b> Sibley School of Mechanical and Aerospace Engineering, Cornell University, Ithaca NY USA <a href="#">Human-Robot Collaboration &amp; Companionship Lab</a> — PI: Prof. Guy Hoffman	2017 - 2019
<b>Research Intern</b> Interdisciplinary Center Herzliya (IDC), Tel Avid, Israel <a href="#">Media Innovation Lab (miLAB)</a> — PI: Prof. Oren Zuckerman	Summer 2017
<b>Graduate Research Assistant</b> Computer Science Department, IST Technical Institute of Lisbon, Portugal <a href="#">Group of AI for People and Society, INESC-ID</a> — PI: Prof. Ana Paiva	2013 - 2017

## EDUCATION

<b>Ph.D., ISCTE University Institute of Lisbon</b> Department of Psychology 🏆 Thesis title: "Boosting Creativity in Children through Interactions with Social Robots". <b>Passed with Distinction.</b> Committee: Ana Paiva (advisor), Guy Hoffman (advisor), Patrícia Arriaga (advisor), Jean-Christophe Giger (ext.), Cecilia Aguiar (ext.), Valentina Nisi (ext.)	2015 - 2020
<b>M.S., Aveiro University</b> Department of Psychology Masters in Clinical and Health Psychology with internship at the Hospital Afredo da Costa (Portugal)	2010 - 2012
<b>B.S., Institute of Applied Psychology, ISPA</b> Department of Psychological Sciences	2006 - 2009

## ACADEMIC HONORS

★ <b>Best Design Paper Award</b> , 16th ACM/IEEE International Conference on Human-Robot Interaction, HRI	2021
★ <b>EECS Rising Stars</b> , UC Berkeley	2020
★ <b>Future Digileader</b> , KTH	2020
★ <b>Postdoctoral Researcher Award</b> (10K), University of Washington, USA	2020
<b>Ada Lovelace Travel Grant</b> , Open Hardware Summit	2020
<b>RSS Pioneer</b> , Freiburg, Germany	2019
<b>Dagstuhl Seminar 19411</b> "Social Agents for Teamwork and Group Interactions", Germany	2019
<b>RSS Women in Robotics Travel Grant</b> , Robotics: Science and Systems Conference, RSS	2019
★ <b>Graduate Scientific Award</b> (7K) , ISCTE University Institute of Lisbon, Portugal	2018, 2019
★ <b>Visiting Graduate Researcher Fellowship</b> , Cornell University, Ithaca, NY, USA	2017, 2019
<b>MIT Media Lab Summer School Travel Grant</b> , Berlin, Germany	2018
<b>BMW Summer School Travel Grant</b> , Munich, Germany	2018
<b>Second Prize Best Poster and Oral Presentation Award</b> BMW Summer School	2018
<b>First Prize Best Serious Game Award</b> , Serious Games Society	2017
<b>Doctoral Consortium</b> , ACM Interaction Design and Children Conference, IDC	2017
★ <b>Best Design Paper Award</b> , 11th ACM/IEEE International Conference on Human-Robot Interaction, HRI	2016

<b>Video Award Nomination</b> , 11th ACM/IEEE International Conference on Human-Robot Interaction, HRI	2016
<b>Honorable Mention</b> , XII PhD Meeting in Social and Organizational Psychology, Lisbon, Portugal	2016
★ <b>HRI Pioneer</b> , Christchurch, New Zealand	2016
★ <b>Graduate Research Fellowship</b> (3% acceptance rate), Foundation for Science and Technology, Portugal	2015-2020

## TEACHING

### Co-Instructor

University of Washington, <a href="#">Directed Research Group DRG:496/596</a> , “Clinical Interventions for Robots”	Summer 2020
University of Washington, <a href="#">Directed Research Group DRG:496/596</a> , “Deployment of a Home Robot”	Fall 2020
University of Washington, <a href="#">Directed Research Group DRG:496/596</a> , “Robots vs Clinical Benchmarks”	Winter 2020
University of Washington, <a href="#">Directed Research Group DRG:496/596</a> , “Hardware for a Self Care Robot”	Spring 2021
University of Washington, <a href="#">Directed Research Group DRG:496/596</a> , “Co-Designing a Robot with Adolescents”	Summer 2021
University of Washington, <a href="#">Directed Research Group DRG:496/596</a> , “Hardware-Software Robot Integration”	Fall 2021

### Teaching Assistant


University of Washington, Computer Science and Engineering <a href="#">Robotics Colloquium:590</a> , all levels	Fall 2021
IST Technical Institute of Lisbon, Social Robots and Human-Robot Interaction, Graduate level	Fall 2019, 2016
ISCTE University Institute of Lisbon, Learning, Motivation and Emotions, Undergraduate level	Spring 2016
ISCTE University Institute of Lisbon, Academic Competencies, Undergraduate level	Spring 2016

### Invited Lecturer

University of Washington, Human-Centered Design Research Discussion Seminar:547, Graduate level	Fall 2021
<a href="#">Glocal Innovation Exchange</a> , Tech Exploration Summer Program, Graduate level	Summer 2021
Cornell University, Mechanical Synthesis:2250, Undergraduate level,	Spring 2021
Colorado School of Mines Human-Robot Interaction:436/536, Undergraduate level	Winter 2020, Fall 2021

## PEER-REVIEWED CONFERENCE PROCEEDINGS

Conferences are the top-tier academic publishing venues for computer scientists. The majority of my research is published in rigorously CS peer-reviewed academic conference proceedings. The Human-Robot Interaction Conference (HRI) is considered the top conference in the field of human-robot interaction. The Robotics: Science and Systems Conference (RSS) is considered to be the top conference in the field of robotics. My collaborators come from many different disciplines, as such, we sometimes choose to publish our work together in top-tier HCI or CS journals rather than CS conferences. Students that I mentored are indicated with \*. [Here is my Google Scholar.](#)

- C29 “And then what happens?” Promoting Children’s Verbal Creativity Using a Robot. Maha Elgarf, Natalia Calvo-Barajas, **Patrícia Alves-Oliveira**, Giulia Perugia, Ginevra Castellano, Christopher Peters, Ana Paiva. 2021 ACM/IEEE International Conference on Human-Robot Interaction (HRI). In press.
- C28 *Learning Back-channeling Behaviors for a Social Robot via Data Augmentation from Human-Human Conversations*. Michael Murray, Nick Walker, Amal Nanavati, **Patrícia Alves-Oliveira**, Nikita Filippov, Allison Sauppé, Bilge Mutlu, and Maya Cakmak. 2021 Conference on Robot Learning (CoRL) [Acceptance Rate: 34%] [\[pdf\]](#) [\[doi\]](#) [\[poster\]](#)
- C27 *Inspiring Social Creativity in Children with a Digital Tool*. **Patrícia Alves-Oliveira**, Raquel Oliveira, Patrícia Arriaga, Ana Paiva, and Carlos Martinho. 2021 International Conference on Computational Creativity (ICCC) [\[pdf\]](#) [\[doi\]](#) [\[video\]](#) [\[materials\]](#)
- C26 *Robotics-Based Interventions for Children’s Creativity*. **Patrícia Alves-Oliveira**, Patrícia Arriaga, Sara Ibérico Nogueira, and Ana Paiva. 2021 ACM Creativity & Cognition Conference (C&C) [Acceptance Rate: 26%] [\[pdf\]](#) [\[doi\]](#) [\[video\]](#)
- C25 *Collection of Metaphors for Human-Robot Interaction*. **Patrícia Alves-Oliveira**, Maria Luce Lupetti, Michal Luria, Diana Löffler, Mafalda Gamboa, Lea Albaugh, Waki Kamino, Anastasia K. Ostrowski, David Puljiz, Pedro Reynolds-Cuéllar, Marcus Scheunemann, Michael Suguitan, Dan Lockton. 2021 ACM Designing Interactive Systems (DIS) [Acceptance Rate: 24.5%] [\[pdf\]](#) [\[doi\]](#) [\[preview\]](#) [\[video\]](#)
- C24  *Children as Robot Designers*. **Patrícia Alves-Oliveira**, Patrícia Arriaga, Ana Paiva, and Guy Hoffman. 2021 ACM/IEEE International Conference on Human-Robot Interaction (HRI) [Acceptance Rate: 23%] [\[pdf\]](#) [\[doi\]](#) [\[video\]](#) **Best Design Paper Award**

- C23 *Creative Encounters Between Children and Robots*. **Patrícia Alves-Oliveira**, Patrícia Arriaga, Matt Cronin, Guy Hoffman, and Ana Paiva. 2020 ACM/IEEE International Conference on Human-Robot Interaction (HRI) [Acceptance Rate: 23.6%] [\[pdf\]](#) [\[doi\]](#) [\[video\]](#) [\[materials\]](#)
- C22 *Effects of Distinct Robot Navigation Strategies on Human Behavior in a Crowded Environment*. Christoforos Mavrogiannis, Alena M. Hutchinson, John Macdonald, **Patrícia Alves-Oliveira**, and Ross A. Knepper. 2019 ACM/IEEE International Conference on Human-Robot Interaction (HRI) Daegu, Republic of Korea [Acceptance Rate: 24%] [\[pdf\]](#) [\[doi\]](#)
- C21 *Friends or Foes? Socioemotional Support and Gaze Behaviors in Mixed Groups of Humans and Robots*. Raquel Oliveira, Patrícia Arriaga, **Patrícia Alves-Oliveira**, Filipa Correia, Sofia Petisca, and Ana Paiva. 2018 ACM/IEEE International Conference on Human-Robot Interaction (HRI) Chicago, IL, USA [Acceptance Rate: 23.8%] [\[pdf\]](#) [\[doi\]](#) [\[materials\]](#)
- C20 *'Me and You Together' Movement Impact in Multi-User Collaboration Tasks*. Miguel Faria, Rui Silva, **Patrícia Alves-Oliveira**, Francisco S. Melo, and Ana Paiva. 2017 IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS) Vancouver, BC, Canada [Acceptance Rate: 45.4%] [\[pdf\]](#) [\[doi\]](#)
- C19 *CUBUS: Autonomous Embodied Characters to Stimulate Creative Idea Generation in Groups of Children*. André Pires, **Patrícia Alves-Oliveira**, Patrícia Arriaga, Carlos Martinho. 2017 ACM International Conference on Intelligent Virtual Agents (IVA) Stockholm, Sweden [Acceptance Rate: 22%] [\[pdf\]](#) [\[doi\]](#)
- C18 *A Social Robot as a Card Game Player*. Filipa Correia, **Patrícia Alves-Oliveira**, Tiago Ribeiro, Francisco S. Melo, and Ana Paiva. 2017 AAAI Conference on Artificial Intelligence and Interactive Digital Entertainment (AIIDE) Snowbird, Utah, US [Acceptance Rate: 27%] [\[pdf\]](#) [\[doi\]](#)
- C17 *Groups of Humans and Robots: Understanding Membership Preferences and Team Formation*. Filipa Correia, Sofia Petisca, **Patrícia Alves-Oliveira**, Tiago Ribeiro, Francisco S. Melo, and Ana Paiva. 2017 Robotics: Science and Systems (RSS) Cambridge, Massachusetts, USA [Acceptance Rate: 30%] [\[pdf\]](#) [\[doi\]](#) [\[video\]](#)
- C16 *Students' Normative Perspectives on Classroom Robots*. Sofia Serholt, Wolmet Barendregt, Dennis Küster, Aidan Jones, **Patrícia Alves-Oliveira**, and Ana Paiva. 2016 Robophilosophy/TRANSOR Aarhus, Denmark [\[pdf\]](#) [\[doi\]](#)
- C15 *A Study on Trust in a Robotic Suitcase*. Beatriz Q. Ferreira, Kelly Karipidou, Filipe Rosa, Sofia Petisca, **Patrícia Alves-Oliveira**, and Ana Paiva. 2016 Springer International Conference on Social Robotics (ICSR) Kansas City, MO, USA [\[pdf\]](#) [\[doi\]](#)
- C14 *An Interactive Tangram Game for Children with Autism*. Beatriz Bernardo, **Patrícia Alves-Oliveira**, Maria Graça Santos, Francisco S. Melo, and Ana Paiva. 2016 ACM International Conference on Intelligent Virtual Agents (IVA) Los Angeles, CA, USA [Acceptance Rate: 22%] [\[pdf\]](#) [\[doi\]](#)
- C13 *Follow Me: Communicating Intentions with a Spherical Robot*. Miguel Faria, Andrea Costigliola, **Patrícia Alves-Oliveira**, and Ana Paiva. 2016 IEEE International Symposium on Robot and Human Interactive Communication (RO-MAN) New York City, New York, USA [Acceptance Rate: 47%] [\[pdf\]](#) [\[doi\]](#)
- C12 *'Just Follow the Suit!' Trust in Human-Robot Interactions During Card Game Playing*. Filipa Correia, **Patrícia Alves-Oliveira**, Nuno Maia, Tiago Ribeiro, Sofia Petisca, Francisco S. Melo, and Ana Paiva. 2016 IEEE International Symposium on Robot and Human Interactive Communication (RO-MAN) New York City, New York, USA [Acceptance Rate: 47%] [\[pdf\]](#) [\[doi\]](#)
- C11 *The Role that an Educational Robot Plays*. **Patrícia Alves-Oliveira**, Pedro Sequeira, and Ana Paiva. 2016 IEEE International Symposium on Robot and Human Interactive Communication (RO-MAN) New York City, New York, USA [Acceptance Rate: 47%] [\[pdf\]](#) [\[doi\]](#) [\[slides\]](#)
- C10 *Emotional Sharing Behavior for a Social Robot in a Competitive Setting*. Sofia Petisca, João Dias, **Patrícia Alves-Oliveira**, and Ana Paiva. 2016 IEEE International Symposium on Robot and Human Interactive Communication (RO-MAN) New York City, New York, USA [Acceptance Rate: 47%] [\[pdf\]](#) [\[doi\]](#)
- C9 *Children's Peer Assessment and Self-Disclosure in the Presence of an Educational Robot*. Shruti Chandra, **Patrícia Alves-Oliveira**, Séverin Lemaignan, Pedro Sequeira, Ana Paiva, and Pierre Dillenbourg. 2016 IEEE International Symposium on Robot and Human Interactive Communication (RO-MAN) New York City, NY, USA [Acceptance Rate: 47%] [\[pdf\]](#) [\[doi\]](#) [\[slides\]](#)

- C8  *Discovering Social Interaction Strategies for Robots from Restricted-Perception Wizard-of-Oz Studies.* Pedro Sequeira, **Patrícia Alves-Oliveira**, Tiago Ribeiro, Eugenio Di Tullio, Sofia Petisca, Francisco S. Melo, Ginevra Castellano, and Ana Paiva. 2016 ACM/IEEE International Conference on Human-Robot Interaction (HRI) Christchurch, New Zealand [Acceptance Rate: 25%] [\[pdf\]](#) [\[doi\]](#) **Best Design Paper Award**
- C7 *Synthesizing Robotic Handwriting Motion by Learning from Human Demonstrations.* Hang Yin, **Patrícia Alves-Oliveira**, Francisco S. Melo, Aude Billard, and Ana Paiva. 2016 ACM International Joint Conference on Artificial Intelligence (IJCAI) New York, NY, USA [Acceptance Rate: 24%] [\[pdf\]](#) [\[doi\]](#)
- C6 *Can a Child Feel Responsible for Another in the Presence of a Robot in a Collaborative Learning Activity?* •Shruti Chandra, **Patrícia Alves-Oliveira**, Séverin Lemaingam, Pedro Sequeira, Ana Paiva, and Pierre Dillenbourg. 2015 IEEE International Symposium on Robot and Human Interactive Communication (RO-MAN) Kobe, Japan [Acceptance Rate: 84%] [\[pdf\]](#) [\[doi\]](#)
- C5 *Empathic Robotic Tutors for Personalised Learning: A Multidisciplinary Approach.* Aidan Jones, Dennis Küester, Christina A. Basedow, **Patrícia Alves-Oliveira**, Sofia Serholt, Helen Hastie, Lee J. Corrigan, Wolmet Barendregt, Arvid Kappas, Ana Paiva, and Ginevra Castellano. 2015 Springer International Conference on Social Robotics (ICSR) Paris, France [\[pdf\]](#) [\[doi\]](#)
- C4 *Designing Robotic Teaching Assistants: Interaction Design Students' and Children's Views.* Mohammad Obaid, Wolmet Barendregt, **Patrícia Alves-Oliveira**, Ana Paiva, Morten Fjeld. 2015 Springer International Conference on Social Robotics (ICSR) Paris, France France [\[pdf\]](#) [\[doi\]](#)
- C3 *Social Robots for Older Adults: Framework of Activities for Aging in Place with Robots.* **Patrícia Alves-Oliveira**, Sofia Petisca, •Filipa Correia, •Nuno Maia, and Ana Paiva. 2015 Springer International Conference on Social Robotics (ICSR) Paris, France [\[pdf\]](#) [\[doi\]](#) [\[slides\]](#) [\[poster\]](#)
- C2 *Empathic Robotic Tutor for School Classrooms: Considering Expectation and Satisfaction of Children as End-Users.* **Patrícia Alves-Oliveira**, Tiago Ribeiro, Sofia Petisca, Eugenio Di Tullio, Francisco S. Melo, and Ana Paiva. 2015 Springer International Conference on Social Robotics (ICSR) Paris, France [\[pdf\]](#) [\[doi\]](#)[\[slides\]](#)
- C1 *Towards Dialogue Dimensions for a Robotic Tutor in Collaborative Learning Scenarios.* **Patrícia Alves-Oliveira**, Srinivasan Janarthanam, Ana Candeias, Amol Deshmukh, Tiago Ribeiro, Helen Hastie, Ana Paiva, and Ruth Aylett. 2014 IEEE International Symposium on Robot and Human Interactive Communication (RO-MAN) [Acceptance Rate: 72%] [\[pdf\]](#) [\[doi\]](#) [\[poster\]](#)

## JOURNAL ARTICLES

- J11 *Designing for Culturally Responsive Human-Robot Interaction: An Argument for a Participatory Approach.* Belinda Louie, Elin Björöling, Annie Camey Kuo, **Patrícia Alves-Oliveira**. 2022 Multimodal Technologies and Interaction, Special Issue "Intricacies of Child-Robot Interaction" In press.
- J10 *I Am the Robot: Teen Collaboration in an Asymmetric, Virtual Reality Game.* Elin A. Björöling, Ada Kim, Katelynn Oleson, **Patrícia Alves-Oliveira**. 2022 Frontiers in Virtual Reality Virtual Reality and Human Behaviour. In press.
- J9 *Creativity Landscapes: Systematic Review Spanning 70 Years of Research on Creativity Interventions for Children.* **Patrícia Alves-Oliveira**, Patrícia Arriaga, Guy Hoffman, and Ana Paiva. 2021 The Journal of Creative Behavior, 55(2), pp. 1-25 [Impact Factor: 2.661] [\[pdf\]](#) [\[doi\]](#) [\[materials\]](#)
- J8  *Software Architecture for YOLO, a Creativity-Stimulating Robot.* **Patrícia Alves-Oliveira**, •Samuel Gomes, •Ankita Chandak, •André Pires, Patrícia Arriaga, Guy Hoffman, and Ana Paiva. 2020 SoftwareX Journal 11(100461):1-8 [Impact Factor: 1.959] [\[pdf\]](#) [\[doi\]](#) [\[source\]](#) [\[wiki\]](#)
- J7  *Guide to Build YOLO, a Creativity-Stimulating Robot for Children.* **Patrícia Alves-Oliveira**, Patrícia Arriaga, Ana Paiva, and Guy Hoffman. 2019 HardwareX 6(e00074):1-15 [Impact Factor: 2.936] [\[pdf\]](#) [\[doi\]](#) [\[source\]](#)
- J6 *Humanization of Robots: Is it Really such a Good Idea?* Jean-Christophe Giger, Nuno Piçarra, **Patrícia Alves-Oliveira**, Raquel Oliveira, and Patrícia Arriaga. 2019 Human Behavior and Emerging Technologies 1(2):111-123 [\[pdf\]](#) [\[doi\]](#)

- J5 ★ *Empathic Robot for Group Learning: A Field Study.* **Patrícia Alves-Oliveira**, Pedro Sequeira, Francisco S. Melo, Ginevra Castellano, and Ana Paiva. 2019 ACM Transactions on Human-Robot Interaction (THRI), 8(1):1-34 [Impact Factor: 3.62] [\[pdf\]](#) [\[doi\]](#) [\[slides\]](#) **Invited presentation at ACM/IEEE HRI Conference 2019**
- J4 ★ *'I Choose... YOU!' Membership Preferences in Human-Robot Teams.* •Filipa Correia, Sofia Petisca, **Patrícia Alves-Oliveira**, Tiago Ribeiro, Francisco S. Melo, and Ana Paiva. 2018 Autonomous Robots 43(2):359-373 [Impact Factor: 3.602] [\[pdf\]](#) [\[doi\]](#) **Invited submission**
- J3 *Influence of Body Odors and Gender on Perceived Genital Arousal.* **Patrícia Alves-Oliveira**, Joana Carvalho, Jacqueline Ferreira, Laura Alho, Pedro Nobre, Mats J. Olsson, and Sandra Soares. 2018 Archives of Sexual Behavior 47(3):661-668 [Impact Factor: 3.458] [\[pdf\]](#) [\[doi\]](#)
- J2 *The Case of Classroom Robots: Teachers' Deliberations on the Ethical Tensions.* Sofia Serholt, Wolmet Barendregt, Asimina Vasalou, **Patrícia Alves-Oliveira**, Aidan Jones, Sofia Petisca, and Ana Paiva. 2017 AI & SOCIETY 32(4):613-631 [Impact Factor: 1.61] [\[pdf\]](#) [\[doi\]](#)
- J1 *Looking for Conflict: Gaze Dynamics in a Dyadic Mixed-Motive Game.* Joana Campos, **Patrícia Alves-Oliveira**, and Ana Paiva. 2015 Autonomous Agents and Multi-Agent Systems 30(1):112-135 [Impact Factor: 1.606] [\[pdf\]](#) [\[doi\]](#)

## BOOK CHAPTERS

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- B2 *An Extended Framework for Characterizing Social Robots.* \*Kim Baraka, \***Patrícia Alves-Oliveira**, and Tiago Ribeiro. In Jost C. et al. (Eds) Human-Robot Interaction. Springer Series on Bio- and Neurosystems, vol 12:21-64, 2020. Springer, Cham. \*equal contribution [\[pdf\]](#) [\[doi\]](#)
- B1 *Towards More Humane Machines: Creating Emotional Social Robots.* •Filipa Correia, Sofia Petisca, Samuel Mascarenhas, Ana Paiva, and **Patrícia Alves-Oliveira**. In S. G. Silva (Eds), New Interdisciplinary Landscapes in Morality and Emotion 2018 [\[pdf\]](#) [\[doi\]](#)

## ABSTRACTS, VIDEOS, & WORKSHOP PAPERS

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- A4 *Robots for Social Good: Exploring Critical Design for HRI.* Hee Rin Lee, EunJeong Cheon, Maartje de Graaf, **Patrícia Alves-Oliveira**, Cristina Zaga, and James Young. 2019 ACM/IEEE International Conference on Human-Robot Interaction (HRI) Daegu, Korea [\[pdf\]](#) [\[doi\]](#) [\[website\]](#)
- A3 *YOLO – A Robot that will Make Your Creativity BOOM.* **Patrícia Alves-Oliveira**, •Ankita Chandak, •Ian Cloutier, •Priyanka Kompella, •Peter Moegenburg, and •André Pires. Student Design Competition. 2018 ACM/IEEE International Conference on Human-Robot Interaction (HRI) Chicago, IL, USA [\[pdf\]](#) [\[doi\]](#)
- A2 *YOLO, A Robot for Creativity: A Co-Design Study with Children.* **Patrícia Alves-Oliveira**, Patrícia Arriaga, Ana Paiva, and Guy Hoffman. Late Breaking Report. 2017 SIGCHI Conference on Interaction Design and Children (IDC) Stanford, CA, USA [\[pdf\]](#) [\[doi\]](#)
- A1 *Child-Robot Interaction: Social Bonding, Learning and Ethics.* Wolmet Barendregt, Sofia Serholt, Arvid Kappas, Christina Basedow, Ana Paiva, **Patrícia Alves-Oliveira**, Asimina Vasalou, and Carl Heath. 2014 SIGCHI Interaction Design for Children (IDC) Aarhus, Denmark [\[pdf\]](#)
- V4 *YOLO – Your Own Living Object.* **Patrícia Alves-Oliveira**, Patrícia Arriaga, Ana Paiva, and Guy Hoffman. 2020 ACM/IEEE International Conference on Human-Robot Interaction (HRI) [\[pdf\]](#) [\[doi\]](#) [\[video\]](#)
- V3 ★ *Building a Social Robot as a Game Companion in a Card Game.* •Filipa Correia, Tiago Ribeiro, **Patrícia Alves-Oliveira**, •Nuno Maia, Francisco S. Melo, and Ana Paiva. 2016 ACM/IEEE International Conference on Human-Robot Interaction (HRI) Christchurch, New Zealand [\[pdf\]](#) [\[doi\]](#) [\[video\]](#) **Best Video Award Nomination**



- V2 *Map Reading With an Empathic Robot Tutor*. Lynne Hall, Colette Hume, Sarah Tazzyman, Amol Deshmukh, Srinu 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. 2016 ACM/IEEE International Conference on Human-Robot Interaction (HRI) Christchurch, New Zealand [\[pdf\]](#) [\[doi\]](#) [\[video\]](#)
- V1 *The Empathic Robotic Tutor: Featuring the NAO Robot*. Tiago Ribeiro, **Patrícia Alves-Oliveira**, Eugenio Di Tullio, Sofia Petisca, Pedro Sequeira, Amol Deshmukh, Srinu Janarthanam, Mary Ellen Foster, Aidan Jones, Lee J. Corrigan, Fotios Papadopoulos, Helen Hastie, Ruth Aylett, Ginevra Castellano, and Ana Paiva. 2015 ACM/IEEE International Conference on Human-Robot Interaction (HRI) Portland, OR, USA [\[pdf\]](#) [\[doi\]](#) [\[video\]](#)
- W11 *Robot Exterior for Life Transitions*. **Patrícia Alves-Oliveira**. Designing Functional Clothing for Human-Robot Interaction. Workshop at 2021 ACM/IEEE International Conference on Human-Robot Interaction (HRI) Virtual [\[pdf\]](#) [\[website\]](#)
- W10 *Creativity and Robotics*. **Patrícia Alves-Oliveira**, Vasanth Sarathy, Amy LaViers, Goren Gordon, Peter Khan, and Maya Cakmak. Workshop at 2020 Springer International Conference on Social Robotics (ICSR) Virtual [\[pdf\]](#) [\[website\]](#)
- W9 *Metaphors for Human-Robot Interaction*. **Patrícia Alves-Oliveira**, Maria Luce Lupetti, Michal Luria, and Diana Löffler. Workshop at 2020 Springer International Conference on Social Robotics (ICSR) Virtual [\[pdf\]](#) [\[website\]](#)
- W8 *Sparkling Creativity With Robots: A Design Perspective*. **Patrícia Alves-Oliveira**, Silvia Tulli, Philipp Wilken, Ramona Merhej, João Gandum, and Ana Paiva. Robots for Social Good: Exploring Critical Design for Human-Robot Interaction. Workshop at 2019 ACM/IEEE International Conference on Human-Robot Interaction (HRI) Deagu, South Korea [\[pdf\]](#) [\[slides\]](#) [\[website\]](#)
- W7 *YOLO: A Robot Designed to Boost Creativity in Children*. **Patrícia Alves-Oliveira**, Patrícia Arriaga, Guy Hoffman, and Ana Paiva. User-centred methods in human-robot interaction. Workshop at 2018 IEEE/RSJ International Conference on Intelligence Robots (IROS) Madrid, Spain [\[pdf\]](#) [\[website\]](#)
- W6 *A Big Applause for CUBUS: A Virtual Sandbox to Stimulate Ideas in Children*. André Pires, **Patrícia Alves-Oliveira**, and Carlos Martinho. Co-Creation. Workshop at 2017 International Conference on Computational Creativity (ICCC) Atlanta, Georgia, USA [\[pdf\]](#) [\[website\]](#)
- W5 *Multiple Robots for Multiple Children: Co-Designing Movement for Robots With Personality*. **Patrícia Alves-Oliveira**, Patrícia Arriaga, Guy Hoffman, and Ana Paiva. Groups in Human-Robot Interaction. Workshop at 2017 IEEE International Symposium on Robot and Human Interactive Communication (RO-MAN) Lisbon, Portugal [\[pdf\]](#) [\[slides\]](#)
- W4 *Groups of Humans and Robots: The AMIGOS Project*. •Filipa Correia, Patrícia Arriaga, Sofia Petisca, **Patrícia Alves-Oliveira**, Raquel Oliveira, Samuel Mascarenhas, Iolanda Leite, Francisco S. Melo, and Ana Paiva. Groups in Human-Robot Interaction. Workshop at 2017 IEEE International Symposium on Robot and Human Interactive Communication (RO-MAN) Lisbon, Portugal [\[pdf\]](#) [\[slides\]](#)
- W3 *Challenges in Child-Robot Interaction: The Cases of Two Research Projects*. **Patrícia Alves-Oliveira**, and Ana Paiva. Child-Robot Interaction: Research, Methodology, and Best Practices. Workshop at 2015 Springer International Conference on Social Robotics (ICSR) Paris, France [\[pdf\]](#)
- W2 *From Thalamus to Skene: High-Level Behavior Planning and Managing for Mixed-Reality Characters*. Tiago Ribeiro, André Pereira, Eugenio Di Tullio, **Patrícia Alves-Oliveira**, and Ana Paiva. Architectures and standards for IVAs. Workshop at 2014 ACM Intelligence Virtual Agents (IVA). Boston, MA, USA
- W1 *‘How do You Imagine Robots?’ Children’s Expectations About Robots*. **Patrícia Alves-Oliveira**, Sofia Petisca, Srinu Janarthanam, Helen Hastie, and Ana Paiva. Social Bonding, Learning, and Ethics Workshop at 2014 ACM Interaction Design for Children (IDC) Aarhus, Denmark [\[pdf\]](#)

## TECHNICAL REPORTS

- TR6 *Datasets with Humans and Agents in Groups* **Patrícia Alves-Oliveira**, Elisabeth André, Tony Belpaeme, •Filipa Correia, Kobi Gal, James Kennedy, Iolanda Leite, Catharine Oertel, and André Pereira (2020). Social Agents for Teamwork and Group Interactions, pp.7. Seminar 19411, Schloss Dagstuhl. Leibniz Center for Informatics, Wadern, Germany [\[pdf\]](#) [\[website\]](#)

- TR5 *Human-Agent and Human-Robot Groups*, **Patrícia Alves-Oliveira**, Mary Ellen Foster, Hatice Gunes, Sviatlana Höhn, Franziska Kirstein, Andrea Marrella, Mark Neerincx, Michio Okada, Ana Paiva, Elisabeth Sklar, and Hannes Högni Vilhjálmsson (2020). Social Agents for Teamwork and Group Interactions, pp. 37. Seminar 19411, Schloss Dagstuhl. Leibniz Center for Informatics, Wadern, Germany [\[pdf\]](#) [\[website\]](#)
- TR4 *Reports on the 2016 AAAI Fall Symposium Series*. **Patrícia Alves-Oliveira**, Richard G. Freedman, Dan Grollman, Laura Herlant, Laura Humphrey, Fei Liu, Ross Mead, Frank Stein, Tom Williams, and Shomir Wilson. AI Magazine [\[pdf\]](#) [\[website\]](#)
- TR3 *Psychological Science in HRI: Striving for a More Integrated Field of Research*. **Patrícia Alves-Oliveira**, Dennis Küster, Arvid Kappas, and Ana Paiva. 2016 Artificial Intelligence and Human-Robot Interaction Symposium, AI-HRI, AAAI Fall Symposium Series. Arlington, VA, USA [\[pdf\]](#) [\[slides\]](#) [\[website\]](#)
- TR2 *‘It’s Amazing, We are All Feeling It!’ Emotional Climate as a Group-Level Emotional Expression in HRI*. **Patrícia Alves-Oliveira**, Pedro Sequeira, Eugenio Di Tullio, Sofia Petisca, Carla Guerra, and Ana Paiva. 2015 Artificial Intelligence and Human-Robot Interaction Symposium, AI-HRI, AAAI Fall Symposium Series. Arlington, VA, USA [\[pdf\]](#) [\[slides\]](#) [\[website\]](#)
- TR1 *Meet Me Halfway: Eye-Behaviour as an Expression of Robot’s Language*. **Patrícia Alves-Oliveira**, Eugenio Di Tullio, Tiago Ribeiro, and Ana Paiva. Artificial Intelligence and Human-Robot Interaction Symposium, AI-HRI. AAAI Fall Symposium Series. Arlington, VA, USA [\[pdf\]](#) [\[slides\]](#) [\[website\]](#)

## MENTORING

### Co-Advised with Maya Çakmak and Elin Bjorling

Nick Walker	PhD CS UW	co-author C28	2021 →
Amal Nanavati	PhD CS UW	co-author C28	2021 →
Michael Murray	PhD CS UW	co-author C28	2021 →
Lea Perlmutter	PhD CS UW		2020 →
Vinitha Ranganeni	PhD CS UW	co-author R3	2021 →
Hita Kambhamettu	BS CS CMU	co-author R3	2021 →
Tony Li	BS CS UW		2021 →
Edgar Lopez	BS CS UW		2021 →
Vijayalaxmi Padmanabhan	MS <a href="#">HCDE</a> UW		2021 →
Katelynn Oleson	BS CS UW	co-author J10, R6	2021 →
Eeshani Mondal	BS <a href="#">HCDE</a> UW		2021 →
Julie Sayigh	BS <a href="#">HCDE</a> UW	co-author P2	2021 →
Sam Malandkar	MS <a href="#">HCDE</a> UW	co-author P2	2021 →
Yufei Zhang	BS Economics UW	co-author R1, R5	2021 →
Raida Karim	BS CS UW	co-author P3, R1, R5	2020 →
Matthew Bavier	MS Electr. Eng. UW	co-author P2	2020 →
Addie Bjornson	BS <a href="#">HCDE</a> UW		2020 →
Alaina Orr	MS <a href="#">HCDE</a> UW	co-author R4	2021
Ajita Shukla	MS <a href="#">HCDE</a> UW		2020 → Chan Zuckerberg
Chris Sim	MS <a href="#">HCDE</a> UW		2020 → Flexport
Fengwei Han	BS <a href="#">IS</a> UW		2020 → FrontRock Inc.
Heba Dwikat	MS <a href="#">HCDE</a> UW	co-author R2	2020 → Philips
Julie Zhu	MS <a href="#">IS</a> UW		2020 → Microsoft
Kai Mihata	BS CS UW	co-author P3, R2	2020 → Microsoft
Lia Johansen	BS <a href="#">HCDE</a> UW		2020 → 2021
Mehul Joshi	BS CS UW		2020 → Amazon
Nora Morsi	BS CS UW		2020 → Amazon
Patriya Wiesmann	MS <a href="#">HCDE</a> UW	co-author R2	2020 → Microsoft
Tanya Budhiraja	BS CS <a href="#">IIIT-Delhi</a> UW REU		2020 → 2021
Tatum Lindquist	BS <a href="#">HCDE</a> UW		2020 → 2021
Samuel So	BS CS Pomona College, UW REU		2020 → Univ Washington
Simran Bathia	BS <a href="#">IS</a> UW	co-author R2	2020 → Berkeley
Succhi Sridhar	BS CS UW		2020 → Nike
Yuchen Wang	BS <a href="#">IS</a> UW		2020 → 2021

### Co-Advised with Guy Hoffman

Albert Chu	BS Mech. Eng. Cornell		2018 → <i>Form Factor Inc</i>
Priyanka Kompella	BS Mech. Eng. Cornell	co-author A3	2018 → <i>Relativity Space</i>
Rebecca Cooper	BS Mech. Eng. Cornell		2018 → <i>MS Cornell</i>
Ankita Chandak	MS CS Cornell	co-author A3	2017 → <i>Microsoft</i>
Ian Cloutier	MS Mech. Eng. Cornell	co-author A3	2017 → <i>VulcanForms Inc</i>
Peter Moegenburg	MS Mech. Eng. Cornell	co-author A3	2017 → <i>Opentrons</i>

### Co-Advised with Ana Paiva

Samuel Gomes	PhD CS IST University of Lisbon	co-author J8	2019 → 2020
André Pires	MS CS IST University of Lisbon	co-author C19, J8, W6, A3	2017 → <i>CloudNC</i>
Elmira Yadollahi	PhD CS EPFL		2017 → <i>KTH</i>
Andrea Costigliola	MS CS IST University of Lisbon	co-author C13	2016 → <i>Hovione</i>
Beatriz Bernardo	MS CS IST University of Lisbon	co-author C14	2016 → <i>Volkswagen</i>
Filipa Correia	PhD CS IST University of Lisbon	co-author W4, V3, B1, C (3, 12, 18, 21)	2016 → 2018
Miguel Faria	PhD CS IST University of Lisbon	co-author C13, C20	2016 → 2018
Nuno Maia	MS CS IST University of Lisbon	co-author C3, C12	2016 → <i>Trouva</i>
Shruti Chandra	PhD CS EPFL	co-author C6, C9	2016 → <i>Waterloo Univ.</i>

### Co-Advised with Patrícia Arriaga

Andreia Nóbrega	MS Psychology ISCTE		2018 → <i>Samsung</i>
Ana Bispo	MS Psychology ISCTE		2017 → 2018

### INVITED TALKS

· <b>Human-Robot Interaction Conference, HRI Pioneers</b> <i>Panelist</i>	Mar 2022 (upcoming)
· <b>Max Plank Institute, Scientific Symposium</b> <i>Invited talk</i>	Jan 2022 (upcoming)
· <b>George Mason University, Center for Advancing Human-Machine Partnership (CAHMP) Seminar</b> <i>“Robots for Health and Education”</i>	Dec 2021
· <b>AAAI AI-HRI Symposium</b> <i>Panelist: “The Future of AI-HRI”</i>	Nov 2021
· <b>New Mexico State University Seminar</b> <i>“Robots for Health and Education”</i>	Nov 2021
· <b>Design Use Build (DUB) Seminar</b> <i>“Metaphors for Human-Robot Interaction”</i>	Jul 2021
· <b>RSS Workshop Robotics x Arts</b> <i>Panelist: “Opportunities and Issues in Robotics Applied in the Arts”</i>	Jul 2021
· <b>University of Chicago, HCI Club</b> <i>“Robots in Context”</i>	Mar 2021
· <b>University of Washington, Undergrad Research Symposium</b> <i>Session Moderator</i>	Mar 2021
· <b>ACM Creativity &amp; Cognition Conference</b> <i>Session Moderator</i>	Mar 2021
· <b>Human Robot Interaction Conference, Workshop Measuring Child-Robot Relationships</b> <i>Debates Moderator</i>	Mar 2021
· <b>NSF National Robotics Initiative &amp; Foundational Research in Robotics Principal Investigators’ Meeting</b> <i>“Design and Development of a Social Robot to Gather Ecological Momentary Stress Data from Teens”</i>	Feb 2021
· <b>Uppsala University, Social Robotics Lab</b> <i>“Creativity Encounters Between Children and Robots”</i>	Mar 2020
· <b>Portuguese Foundation for Science and Technology</b> <i>“YOLO, A Robot that will Make Your Creativity BOOM”</i>	Nov 2018



## SERVICE

### PROPOSAL EVALUATION

- NSF Proposal Evaluation Panel

2021

### REVIEWER

- *I perform between 15-20 reviews per year. I keep my review log using [Publons](#). Note that not all the reviews I performed are registered in Publons as not all venues send an email confirmation when I submit a review, which is required for logging a review in Publons.*
- 🏆 ACM Human-Computer Interaction (CHI), Recognized for Excellence in Reviewing in 2018
- IEEE/ACM International Conference on Human-Robot Interaction (HRI)
- ACM Designing Interactive Systems (DIS)
- ACM International Conference on Tangible, Embedded and Embodied Interaction (TEI)
- ACM Interaction Design and Children conference (IDC)
- Robotics: Science and Systems (R:SS)
- IEEE International Conference on Robotics and Automation (ICRA)
- IEEE International Conference on Robot and Human Interactive Communication (Ro-MAN)
- ★ ACM Computer-supported cooperative work (CSCW), Accepted in the CSCW 2019 Student-Reviewer Mentor Program
- ACM International Conference on Multimodal Interaction (ICMI)
- IEEE Conference of the Association for the Advancement of Affective Computing (ACII)
- ACM SIGCHI CHIPLAY
- AAAI-HRI Fall Symposium Series: Artificial Intelligence for Human-Robot Interaction
- ACM Human-Agent Interaction (HAI)
- Springer International Conference on Social Robotics (ICSR)
- ACM Creativity and Cognition (C&C)
- ACM Intelligent Virtual Agents Conference (IVA)
- APA Technology, Mind, Society
- Creativity Research Journal
- HardwareX Journal
- International Journal of Social Robotics (IJSR)
- International Journal of Child-Computer Interaction(IJCCI)
- Interaction Studies
- Transactions in Human-Robot Interaction (THRI)
- Transactions on Computer-Human Interaction
- Frontiers in Robotics and AI
- Frontiers in Psychology
- Frontiers in Human-Robot interaction

### WORKSHOP ORGANIZATION

#### **“Towards a Common Understanding and Vision For Theory-Grounded Human-Robot Interaction (THEORIA)”**

2022

*ACM/IEEE International Conference on Human-Robot Interaction (HRI)*

Co-organizers: Glenda Hannibal, Theresa Law, Nicholas Rabb [\[website\]](#)

#### **“Metaphors for Human-Robot Interaction”**

2021

*Springer International Conference on Social Robotics (ICSR)*

Co-organizers: Maria Luce Lupetti, Michal Luria, Diana Löffler [\[website\]](#)

★ Outcome: Publication C25

#### **“Creativity and Robotics”**

2021

*Springer International Conference on Social Robotics (ICSR)*

Co-organizers: Vasanth Sarathy, Goren Gordon, Amy LaViers, Maya Cakmak, Peter Kahn [\[website\]](#)

★ Outcome: [Special Issue in Frontiers in Robotics & AI](#).

#### **“Robots for social good: Exploring critical design for HRI”**

2019

IEEE/ACM International Conference on Human-Robot Interaction (HRI)

Co-organizers: Hee Rin Lee, EunJeong Cheon, Maartje de Graaf, Cristina Zaga, James Young [\[website\]](#)

**“Child-Robot Interaction: Social Bonding, Learning and Ethics.”**

2014

ACM Interaction Design and Children conference (IDC)

Co-organizers: Wolmet Barendregt, Sofia Serholt, Arvid Kappas, Christina Basedow, Ana Paiva

**RESEARCH COMMUNITY SERVICE**

**Talking Robotics**

2019 - ongoing

Co-founder of a series of bi-weekly virtual seminars about robotics and adjacent fields [\[website\]](#) [\[youtube\]](#) [\[twitter\]](#)

Audience: more than a thousand of researchers worldwide and more than 30 speakers.

Co-founders: Silvia Tulli, Miguel Vasco, Kush Desai.

★ Sponsors: [Semio](#) and [PAL Robotics](#)

**ICRA Debates**

2021

Debates with senior experts in the field of robotics to inspire the future developments of the field [\[website\]](#)

Co-organizers: Jaime Fernández Fisac, Felix von Drigalski, Brian Wang, Maíra Saboia, Matthew Giamou, Sarah Tang, Sudharshan Suresh, Florian Shkurti, Jonathan Kelly, Sylvia Herbert.

**Reading Group**

2019–2020

Organized the Robotics Reading Group at the CS Department of IST Technical Institute of Lisbon [\[website\]](#)

**ACM Interaction Design and Children conference (IDC)**

2017

Served as a volunteer in the conference.

**IEEE/ACM International Conference on Human-Robot Interaction (HRI)**

2016

Served as a volunteer in the conference.

**PROGRAM COMMITTEE**

- **Frontiers in Robotics & AI**, Lead Topic Editor for the Research Topic “Creativity and Robotics” 2021
- **IEEE/ACM International Conference on Human-Robot Interaction (HRI)**, Student Design Competition Chair 2021
- **Robotics: Science and Systems (R:SS)**, General Chair Pioneers Workshop 2021
- **Robotics: Science and Systems (R:SS)**, Publicity Chair 2021
- **ACM Human-Agent Interaction (HAI)**, Poster Chair 2020
- **Springer International Conference on Social Robotics (ICSR)**, Publicity Chair 2020
- **IEEE/ACM International Conference on Human-Robot Interaction (HRI)**, Late Breaking Report Chair 2020
- **IEEE/ACM International Conference on Human-Robot Interaction (HRI)**, Program Chair HRI Pioneers Workshop 2017
- **Summer School for Social Human-Robot Interaction**, Local Arrangements Chair 2017
- **AAAI AI-HRI Symposium**, Program Chair 2016
- **XII Meeting in Psychology**, Program Chair 2016

**SELECTED OUTREACH**

- **Girls Who Code**, gave a presentation entitled “Project EMAR: A Social Robot for Teens” 2020, 2021
- **High School Colégio Campo de Flores, Portugal**, gave a presentation entitled “Artificial Intelligence and Robots” 2015
- **Creative Mornings, Lisbon**, gave a presentation about my PhD project entitled “*Creativity and Robotics*” 2019
- **European Researchers’ Night**, presented two demos: (1) a Tangram game developed for children with Autism Spectrum Disorder (ASD); (2) YOLO, a robot for creativity stimulation 2017, 2018
- **Kid’s Science Day, Cornell University**, gave a demo of the YOLO robot 2018
- **RAW Exhibition, Architecture Department, Cornell University**, presented the design process of the YOLO robot 2018

**SELECTED MEDIA COVERAGE**

- IEEE Spectrum.** “*Children as Social Robot Designers: What happens when you let kids design their own social robot from scratch*”, interview about the human-centered design and fabrication process of YOLO robot. Associated Publication: C24 [\[link\]](#) 2021
- Population Health.** “*Project EMAR Works to Improve Adolescent Mental Health via a Co-designed Social Robot.*”, interview about the design process of the robot EMAR. Associated Publication: R2 [\[link\]](#) 2021
- PCMag.** “*This Robot Wants to Help Stressed-Out Teens*”, interview about the evidence-based interventions that EMAR robot used to decrease stress in adolescents. Associated Publication: P1 [\[link\]](#) 2021
- NSF News** “*7 Cool NSF-funded Robots that are Advancing Science and Helping Society*”, EMAR project was featured as project that promotes social good. [\[link\]](#) 2021
- WEVOLVER.** “*YOLO Robot YOLO is a Robot that Boosts Children’s Creativity.*”, featured the open access materials of YOLO robot. Associated Publications: J8, J9 [\[link\]](#) 2021
- ARTIFICIA.** “*The Robot-Creativity Project*”, featured the robot YOLO and its research contributions in stimulating creativity in children. Associated publications: C23, C24 [\[link\]](#) 2021
- SMART MEAT.** General interview about robots and AI with humorous content. [\[link\]](#) 2021
- Robohub Podcast.** “*Fostering Creativity: RSS Pioneers and the YOLO Robot with Patrícia Alves-Oliveira*”, interviewed by Robohub Podcast about my PhD dissertation work and about my experience as an international participants at RSS Pioneers [\[link\]](#) 2020
- GQ Magazine** “*Love at First Download*”, interview about the future between humans and robots, in Portuguese [\[link\]](#) 2018
- MIT Media Lab News.** “*Making Anything Into a New Musical Instrument*”, interview about the project I developed while at the MIT Media Lab Summer School [\[link\]](#) 2018
- Fundação Francisco Manuel dos Santos.** “*Portuguese Scientists Living Abroad*”, interview about the hardships and positives about leaving Portugal to study abroad, in Portuguese [\[link\]](#) 2017
- SIC Europe.** Interview about the European EMOTE Project, in Portuguese. Associated publications: J5, C8 [\[link, min 1:20\]](#) 2015