

News

See our [front page](#) for the most recent news.

- 2023-11-13 Justus Piater gives an invited talk *ChatGPT: Wie es (nicht) funktioniert* at [Wie „denkt“ ChatGPT? Begegnungen mit einer Künstlichen Intelligenz](#), Stadtbibliothek Innsbruck. (Öffentliche Veranstaltung im Rahmen der Vortragsreihe DiSCussion des Digital Science Centers, organisiert gemeinsam mit dem Vizerektorat für Digitalisierung und Nachhaltigkeit)
- 2023-11-11 Justus Piater gives an invited talk *Wie kann die Medizin von der Künstlichen Intelligenz profitieren?* at [Winterfortbildung der Universitätsklinik Gynäkologie und Geburtshilfe Innsbruck](#), Wattens.
- 2023-10-24 Justus Piater gives an invited lecture *Ramping Up Robot Intelligence* at [ReconCycle Summer School 2023](#), Cala Ratjada, Mallorca, Spain.
- 2023-09-06 Justus Piater gives an invited lecture *High-Level AI For Service Robotics* at [GMAR Robotics Summer School 2023](#), FH Technikum Wien.
- 2023-08-15 Samuele Tosatto contributes a talk *A Continuous-Time Option Framework* at [International Workshop of Intelligent Autonomous Learning Systems 2023](#), Hirschegg, Kleinwalsertal, Austria. (Research talk about arXiv:2212.04407)
- 2023-07-27 Justus Piater gives an invited talk *Wie generiert ChatGPT seine Antworten, und warum sollten wir einen kritischen Blick auf diese bewahren?* at [ChatGPT in der Unternehmenskommunikation](#), Universität Innsbruck. (Eine gemeinsame Veranstaltung des Public Relations Verbands Austria und digital.tirol)
- 2023-07-05 Justus Piater gives an invited talk *Möglichkeiten und Grenzen der KI in der Robotik* at [Bodenseegespräche 2023](#), Hard bei Bregenz, Austria. [\[Abstract\]](#)
- 2023-06-05 Justus Piater gives an invited talk *Generative Künstliche Intelligenz* at [Forum Förderkreis 1669](#), online.
- 2023-05-29 Samuele Tosatto contributes a talk *Temporal Abstraction via Variable Decision Frequency* at [Workshop on effective Reresentations, Abstractions, and Priors for Robot Learning \(ICRA Workshop\)](#), ExCeL London. (Research talk about arXiv:2212.04407)
- 2023-05-25 Justus Piater gives an invited talk *Künstliche Intelligenz & ChatGPT: Möglichkeiten und Grenzen in der Hochschullehre* at [Digitales Lehren und Lernen](#), Medizinische Universität Innsbruck und online. (Informations- und Diskussionsveranstaltung für Bedienstete und Studierende)
- 2023-05-23 Justus Piater gives an invited talk *Robot Learning – von Imitation bis Kognition* at [OVE-IT-Kolloquium: Maschinelles Lernen](#), OVE, Wien, und online. [\[Abstract\]](#)
- 2023-05-11 Simon Haller-Seeber, Patrick Hofmann, and Christopher Kelter teach a tutorial *STAIR Lab Workshop: Programmieren eines autonomen Roboters anhand einer selbstentwickelten KI* at INNALP Workshop für die NMS Hötting West, Universität Innsbruck.
- 2023-05-04 Justus Piater is a panelist at a public discussion on [Künstliche Intelligenz \(KI\) in Bibliotheken](#), Congress Innsbruck. (Podiumsdiskussion am 1. Österreichischen Bibliothekskongress 2023)
- 2023-03-29 Simon Haller-Seeber, Christopher Kelter, and Patrick Hofmann teach a tutorial *Was sind Roboter, was macht eine KI? Entwickle deine eigene KI und programmiere unsere Minibots* at Campustag BG/BRG Sillgasse, Universität Innsbruck.
- 2023-02-13 Justus Piater gives an invited colloquium *Making Robots Learn to Perceive and Act With Understanding* at Guest talk hosted by Gerald Steinbauer, TU Graz. [\[Abstract\]](#)

- 2023-01-21 Justus Piater appears in the media: [Auch ein Roboter muss höflich sein](#). (Interview by Die Presse (in German))
- 2022-12-19 Marko Zaric and Simon Haller-Seeber teach a tutorial *Einführung in die Programmierung mit dem BBC Micro:Bit* at Campustag NMS Hötting, Universität Innsbruck.
- 2022-12-06 Justus Piater, Matteo Saveriano, Hector Villeda, and Erwan Renaudo appear in the media: [Schritt für Schritt](#). (Zukunft Forschung – Das Magazin für Wissenschaft und Forschung der Universität Innsbruck 2 (2022)) [\[Abstract\]](#)
- 2022-12-01 Justus Piater, Erwan Renaudo, and Matthias Schurz appear in the media: [Mithilfe der Psychologie: Forscher wollen Robotern soziale Fähigkeiten beibringen](#). (Interview by Innovation Origins) [\[Abstract\]](#)
- 2022-11-17 Simon Haller-Seeber gives an invited talk *STAIR-Lab Workshop One and Outlook* at [INNALP Education Hub Beiratssitzung](#), Universität Innsbruck.
- 2022-11-08 Justus Piater gives an invited colloquium *Robots, Understanding, and Causality* at Guest talk hosted by Georg Martius, Autonomous Learning group, Max Planck Institute for Intelligent Systems. [\[Abstract\]](#)
- 2022-10-14 Justus Piater gives an invited colloquium *Making robots learn to perceive and act with understanding* at [Department of Industrial Engineering Seminar](#), University of Trento and online. [\[Abstract\]](#)
- 2022-07-21 Justus Piater appears in the media: [„Es regnet, weil Menschen die Schirme aufspannen“ – warum wir \(noch\) keine allzu große Angst vor künstlicher Intelligenz haben müssen](#). (Makademia - Forschung einfach geknackt)
- 2022-06-14 Justus Piater co-organizes the [Austrian Robotics Workshop](#).
- 2022-06-10 Simon Haller-Seeber, Patrick Hofmann, and Thomas Gatterer teach a tutorial *Was sind Roboter, was macht eine KI? Entwickle deine eigene KI und programmiere unsere Minibots* at Campustag BG/BRG Sillgasse, Universität Innsbruck.
- 2022-06-02 Erwan Renaudo contributes a talk *Deep Learning for Fast Segmentation of E-waste Devices' Inner Parts in a Recycling Scenario* at [ICPRAI 2022](#), Paris/online. [\[Abstract\]](#)
- 2022-05-20 Justus Piater appears in the media: [ORF Tirol Podcast \(in German\)](#). [\[Abstract\]](#)
- 2022-05-17 Erwan Renaudo gives an invited talk *A Brief tour of autonomous robots' "Cognition"* at [Creating Agency and Cognition in Automated Systems: What can we learn from the Octopus? International Hybrid Workshop](#), Innsbruck. [\[Abstract\]](#)
- 2022-05-11 Justus Piater gives an invited talk *Robots That Learn Like Humans?* at [Pint of Science](#), Innsbruck. [\[Abstract\]](#)
- 2022-04-28 Simon Haller-Seeber contributes a talk *STAIR Learning Lab* at [Robotics in Education 2022](#), online.
- 2022-02-19 Justus Piater gives an invited talk *Learning as a Creative Process in Humans and Machines* at [Workshop on "Agency, Life, and Creativity"](#), online. [\[Abstract\]](#)
- 2021-11-24 Justus Piater is a panelist at a public discussion on [Privacy in the Digital Age](#), online. (Organized by ELSA Innsbruck)
- 2021-10-22 Justus Piater gives an invited talk *Robotik und KI in der Medizin – nur Bedarfserweckung?* at [Medical Update Hall 2021 – Fit für das neue Jahrzehnt](#), UMIT, Hall in Tirol.
- 2021-08-26 Justus Piater contributes a talk *Digital Science at the University of Innsbruck* at Aurora Research Conference Digital Society & Global Citizenship, Vrije Universiteit Amsterdam. [\[Abstract\]](#)
- 2021-08-24 Justus Piater teaches a tutorial *Picking and Placing* at [2021 GMAR Summer School](#), Villa Blanka, Innsbruck.

- 2021-07-01 Justus Piater and Matteo Saveriano give an invited talk *Making Robots Learn to Perceive and Act with Understanding* at [Workshop and Open Lab on Field Robotics - Interdisciplinary aspects of robotics and its applications in outdoor scenarios](#), NOI Techpark, Bolzano, Italy.
- 2021-05-26 Justus Piater contributes a talk *Intelligente und interaktive Systeme* at [GMAR Robotics Science Talks](#), online.
- 2021-03-24 Justus Piater gives an invited lecture *Machine Learning, Perception, And Abstract Concepts* at Invited lecture at Ontario Tech U, Canada, online. [\[Abstract\]](#)
- 2021-01-28 Matteo Saveriano gives an invited talk *Making robots to learn from human observation?* at [Showcasing Young Austrian Scholars and Scientists, Austrian cultural forum, Ottawa](#), online.
- 2021-01-14 Matteo Saveriano gives an invited talk *Hierarchical action decomposition and motion learning for the execution of manipulation tasks* at [Hello Tyrol calling! Robotics Talk online, GMAR, Innsbruck](#), online.
- 2020-11-24 Justus Piater gives an invited colloquium *Elements of Robot Intelligence - What does it take to make robots smart?* at Department Colloquium hosted by Florentin Wörgötter, Bernstein Center for Computational Neuroscience, Universität Göttingen, online. [\[Abstract\]](#)
- 2020-11-19 Justus Piater gives an invited talk *Machine Learning in Robotics* at [bAlome PI Talk, Center for Biomedical AI, University Medical Center Hamburg-Eppendorf](#), online. [\[Abstract\]](#)
- 2020-11-20 Simon Haller-Seeber and Patrick Lamprecht present a show *Explainable AI: A sneak peek into the Black-Box* at [Science Slam](#), online.
- 2020-10-22 Matteo Saveriano, Erwan Renaudo, Antonio Rodríguez-Sánchez, and Justus Piater co-organize the [13th International Workshop on Human-Friendly Robotics \(HFR 2020\)](#).
- 2020-09-30 Erwan Renaudo contributes a talk *ROSSINI: RobOt kidS deSIgn thiNkIng* at [Robotics in Education 2020](#), online.
- 2020-06-22 Justus Piater gives an invited talk *Conditional Neural Movement Primitives* at [GdR ISIS Réunion Apprentissage et Robotique](#), online. [\[Abstract\]](#)
- 2020-06-03 Justus Piater appears in the media: *Wie der Roboter denken lernt.* (Newspaper article in Tiroler Tageszeitung)
- 2020-02-20 Justus Piater gives an invited colloquium *Machine Learning, Perception, And Abstract Concepts* at Colloquium hosted by Georg Martius, Max Planck Institute of Intelligent Systems, Tübingen. [\[Abstract\]](#)
- 2020-01-29 Justus Piater gives an invited talk *Digital Science* at [Vortragsreihe „Primers for Predocs - Strategien für eine erfolgreiche Promotion“](#), Universität Heidelberg. [\[Abstract\]](#)
- 2020-01-20 Joanna Chimiak-Opoka, Carina König, and Justus Piater appear in the media: [Ergänzung Digital Science erfolgreich gestartet - UIBK Newsroom](#). (News report on the successful start of the teaching activities of the Digital Science Center, in German)
- 2020-01-03 Justus Piater gives an invited talk *Künstliche Intelligenz: Grundlagen, Erfolge, Herausforderungen* at 47. Tagung des Innsbrucker Kreises von MoraltheologInnen und SozialethikerInnen, Innsbruck. (In German.)
- 2019-12-19 Justus Piater appears in the media: [TV interview by ORF 2 Tirol Heute RedHaus \(in German\)](#). (Interview about the functioning of Alexa, Siri, and similar systems)
- 2019-12-12 Justus Piater gives an invited lecture *Too Smart to Be Trusted - Do I Even Want to Understand My Robot?* at [TrustRobots Lecture series Trust in Robots](#), TU Vienna.
- 2019-12-05 IIS guest **Heiko Neumann**, University of Ulm, gives an invited colloquium *Biologically inspired visual-auditory processing - from brain-like computation to neuromorphic algorithms* at [IFI Lunchtime Seminar](#). [\[Abstract\]](#)

- 2019-11-26 IIS guest **Tamim Asfour**, Karlsruhe Institute of Technology, gives an invited keynote *Engineering Humanoids with Motion Intelligence* at [inday students](#). [\[Abstract\]](#)
- 2019-11-25 Justus Piater gives an invited talk *Enabling Robots to Learn Abstract Concepts* at [TriCoLore – Creativity | Cognition | Computation](#), Bolzano, Italy. (International Workshop)
- 2019-11-22 Justus Piater gives an invited colloquium *Robots that play and work* at Informal workshop (5 invited speakers) organized by Dr. Pierre-Yves Oudeyer, INRIA FLOWERS, Talence, France.
- 2019-11-18 Justus Piater gives an invited talk *Künstliche Intelligenz in einer menschlichen Gesellschaft* at Robotik in Medizin und Pflege – Jubiläumssymposium des Klinischen Ethikkommittees, A.ö. Landeskrankenhaus – Universitätskliniken Innsbruck.
- 2019-11-08 Justus Piater gives an invited talk *AI Transparency in Autonomous Vehicles at Towards Cognitive Vehicles: perception, learning and decision making under real-world constraints. Is bio-inspiration helpful?*, Macau. (Workshop at the IEEE/RSJ International Conference on Intelligent Robots and Systems)
- 2019-11-03 Justus Piater, Philipp Gschwandtner, and Simon Haller appear in the media: Österreich-Bild: Bits und Berge - 350 Jahre Forschung in Innsbruck; TV Documentary by ORF 2 (in German).
- 2019-10-23 Simon Haller appears in the media: TV interview by ORF 2 Tirol Heute (in German). Justus Piater appears in the media: [KI oder die Geschichte einer gleichzeitigen Über- und Unterschätzung \(eco.nova, in German\)](#). (Comprehensive interview article (6 pages) on artificial intelligence in eco.nova, a nationwide magazine covering trends in economy, science, architecture, health & wellness, tax, law, dining and lifestyle)
- 2019-10-10 IIS guest **Georg Martius**, Max Planck Institute for Intelligent Systems, Tübingen, gives an invited colloquium *Control What You Can – Intrinsically Motivated Hierarchical RL* at IIS Colloquium. [\[Abstract\]](#)
- 2019-10-10 IIS guest **Georg Martius**, Max Planck Institute for Intelligent Systems, Tübingen, gives an invited colloquium *Self-Organization of Behavior in Autonomous Robot Development* at [IFI Lunchtime Seminar](#). [\[Abstract\]](#)
- 2019-07-17 Matteo Saveriano contributes a talk *From Intuitive Skill Transfer to Large-Scale Robotic Knowledge Bases* at [DiSCourse - The Digital Science Seminar Series](#), Department of Computer Science, University of Innsbruck.
- 2019-07-15 David Peer contributes a talk *Vector Routing in Capsule Networks* at School of Learning, Perception and Robotics (SPROuT), Department of Information Engineering and Computer Science, University of Trento.
- 2019-07-15 Sayantan Auddy contributes a talk *Progress, Compress and Expand - A framework for lifelong learning of robotics tasks* at School of Learning, Perception and Robotics (SPROuT), Department of Information Engineering and Computer Science, University of Trento.
- 2019-07-15 Justus Piater contributes a talk *Towards Open-Ended Robot Learning* at School of Learning, Perception and Robotics (SPROuT), Department of Information Engineering and Computer Science, University of Trento.
- 2019-07-15 Matteo Saveriano contributes a talk *Learning Structured Robotic Tasks via Human Imitation* at School of Learning, Perception and Robotics (SPROuT), Department of Information Engineering and Computer Science, University of Trento.
- 2019-07-12 Simon Haller and Nicolas Stolz appear in the media: Sport und Roboter gehen Hand in Hand (in Liechtensteiner Vaterland).
- 2019-07-04 Simon Haller teaches a tutorial *Introduction to Prototyping autonomous Robots using the Robot Operating System (ROS)* at Institut für Informatik, Universität Innsbruck.

- 2019-06-27 Justus Piater gives an invited talk *Selbst lernende Roboter der Zukunft* at [GMAR Robotics Talks Reloaded](#), Vienna.
- 2019-06-27 Simon Haller teaches a tutorial *Künstliche Intelligenz und Robotik - Ein Überblick und Reality Check* at Campustag NMS Götzis, Institut für Informatik, Universität Innsbruck.
- 2019-06-13 Simon Haller gives an invited talk *Coding Literacy - Konzepte und Anwendungen in der Schule und im Alltag* at [Künstliche Intelligenz und Robotik als theologisch-ethische Herausforderung](#), Universität Innsbruck. (Tagung organisiert vom Institut für Islamische Theologie und Religionspädagogik)
- 2019-06-13 Justus Piater gives an invited talk *Künstliche Intelligenz in einer menschlichen Gesellschaft* at [Künstliche Intelligenz und Robotik als theologisch-ethische Herausforderung](#), Universität Innsbruck. (Tagung organisiert vom Institut für Islamische Theologie und Religionspädagogik)
- 2019-05-24 – 2020-12-31 Erwan Renaudo edits a guest edition [Special Issue on Computational Models of Affordance in Robotics](#) in *Frontiers in Neurorobotics*. (Special Issue organized as a follow-up of the Workshop at the IEEE International Conference on Robotics and Automation)
- 2019-05-24 Philipp Zech and Erwan Renaudo co-organize the [2nd International Workshop on Computational Models of Affordance in Robotics](#).
- 2019-05-09 Erwan Renaudo contributes a talk *Action representations in robotics: A taxonomy and systematic classification* at [IFI Lunchtime Seminar](#), Universität Innsbruck.
- 2019-05-02 Justus Piater gives an invited talk *Digitalization: Promises and Challenges* at [Möglichkeiten und Herausforderungen der Digitalisierung](#), Universität Innsbruck. (7. Interdisziplinäres Doktorandenkolloquium im Rahmen der Kooperation zwischen der Andrassy Universität Budapest und der Autonomen Region Trentino-Südtirol)
- 2019-04-26 – 2019-04-27 Birgit Juen, Cornelia Vidovic, Manuela Resch, Justus Piater, and Simon Haller co-organize the [RoboCup Junior Austrian Open 2019](#).
- 2019-04-26 Justus Piater appears in the media: TV interview on educational and societal aspects of robot technology by ORF 2 Tirol Heute (in German). (TV report on the RoboCup Junior Austrian Open 2019)
- 2019-03-28 Simon Haller teaches a tutorial *Coding und Robotik - Makerspaces mit Einplatinencomputern* at [eFuture-Day](#), Grillhof Vill.
- 2019-03-26 Justus Piater contributes a talk *Selbst lernende Roboter der Zukunft* at [GMAR Robotics Talk: Robotik in Fertigung, Montage und Forschung](#), INNIO Jenbacher.
- 2019-03-26 Justus Piater co-organizes the [GMAR Robotics Talk: Robotik in Fertigung, Montage und Forschung](#).
- 2019-02-20 Justus Piater gives an invited talk *Künstliche Intelligenz in der Robotik* at [Smart City Finale 2019](#), HTL Dornbirn.
- 2019-01-18 Simon Haller gives an invited colloquium *Educational Robotics Initiativen (an der Universität Innsbruck)* at [Jährlicher Educational Robotics Workshop \(ERW\) des OCG](#), OCG, Wien.
- 2019-01-10 Justus Piater gives an invited talk *High-Level, Skill-Based Robot Programming Using Autonomous Playing and Autonomous Testing* at [Taste Digitalization - CAMPUS:digi:TOUR \(4\)](#), ICT, Universität Innsbruck.
- 2018-10-27 Justus Piater appears in the media: [Des Menschen Angst vor der Maschine. Newspaper article \(Der Standard\) following interview.](#)
- 2018-10-05 Justus Piater gives an invited talk *Perception of Abstract Concepts* at [Unconventional Sensing and Processing for Robotic Visual Perception](#), Madrid, Spain. (Workshop at the IEEE/RSJ International Conference on Intelligent Robots and Systems)
- 2018-09-21 Justus Piater gives an invited talk *Concept Learning For Robot Intelligence* at [Conference on Quantum Machine Learning Plus](#), Innsbruck, Austria. [\[Abstract\]](#)

- 2018-07-17 Simon Haller and Nicolas Stolz appear in the media: [Roboter zu Besuch in Liechtenstein](#) .
- 2018-07-03 Simon Haller teaches a tutorial *Wie kann ein Roboter lernen, die Welt zu verstehen?* at Campustag BORG Schwaz, Universität Innsbruck.
- 2018-06-30 Philipp Zech, Barry Ridge, and Emre Ugur co-organize the [1st International Workshop on Computational Models of Affordance in Robotics](#).
- 2018-06-30 Justus Piater gives an invited talk *Objects, Parts, Functions, Affordances, Actions, and Tasks* at [1st International Workshop on Computational Models of Affordance in Robotics](#), Pittsburgh, PA, USA. (Workshop at the Robotics: Science and Systems conference) [\[Abstract\]](#)
- 2018-06-12 Justus Piater, Simon Haller, and Olaf Köhler appear in the media: [Music Globe und Cubeat](#) . (Newsroom of the University of Innsbruck)
- 2018-06-12 Simon Haller teaches a tutorial *Robotics im Klassenzimmer* at [InDay Teachers 2018](#), Universität Innsbruck.
- 2018-05-04 Senka Krivic gives an invited colloquium *Learning Predictive Models for Robotics* at Colloquium hosted by Dr. Lorenzo Natale , Istituto Italiano di Tecnologia, Genoa, Italy.
- 2018-05-02 Justus Piater gives an invited colloquium *Making Robots Learn to Perceive and Act with Understanding* at Talk as part of the Theoretical Physics seminar series, Department of Theoretical Physics, University of Innsbruck. [\[Abstract\]](#)
- 2018-04-27 Justus Piater gives an invited colloquium *Machine Learning, Perception, And Abstract Concepts* at Colloquium hosted by Prof. Andreas Müller, Johannes Kepler University Linz, Austria.
- 2018-04-24 Justus Piater gives an invited talk *Intelligente Roboter – Freund, Feind oder Hirngespinnst?* at [Popular science talk within the WissensDurst series](#), Innsbruck, Austria.
- 2018-04-11 Justus Piater is a panelist at a public discussion on [AI – Wird der Mensch ersetzbar?, organized by the Faculty of Law and the European Law Students’ Association Austria](#), Innsbruck, Austria.
- 2018-04-10 Philipp Zech, Justus Piater, and Cornelia Vidovic appear in the media: [Roboter bauen? Ist ja kinderleicht](#) . (Newspaper article in Tiroler Tageszeitung)
- 2018-04-05 Justus Piater contributes a talk *High-Level, Skill-Based Robot Programming Using Autonomous Playing and Autonomous Testing* at RSS Area Chair Symposium, Cornell University, Ithaca, NY, USA.
- 2018-03-23 Simon Haller teaches a tutorial *Was sind Roboter? Wie verstehen Roboter? Wie baut man einen einfachen Roboter?* at Campustag BG/BRG Sillgasse, Universität Innsbruck.
- 2018-02-09 Simon Haller and Nicolas Stolz teach a tutorial *Digitale Selbstverteidigung: Security und Privacy im Internet* at Safer Internet Tag, Jugendzentrum Tivoli.
- 2018-01-18 Simon Haller and Philipp Zech give an invited colloquium *Educational Robotics Initiativen in Westösterreich* at [Jährlicher Educational Robotics Workshop \(ERW\) des OCG](#), OCG, Wien.
- 2017-12-20 Justus Piater gives an invited colloquium *Machine Learning, Perception, And Abstract Concepts* at [Colloquium hosted by Prof. Tamim Asfour](#), Karlsruhe Institute of Technology, Germany.
- 2017-12-13 Simon Haller teaches a tutorial *Build your own Mini Robot* at AK Informatiklehrer, Universität Innsbruck. (Build and code your own mini robot.)
- 2017-12-01 Justus Piater appears in the media: [Frage der Tradition. Interview about Open Access publishing by Zukunft Forschung](#), the science and research magazine of the University of Innsbruck.

- 2017-11-24 Justus Piater gives an invited talk *Scale Up Machine Learning, And Cognition Will Emerge. Will It?* at [EUCognition Meeting](#), Zürich, Switzerland.
- 2017-11-15 Simon Haller teaches a tutorial *Digitale Kompetenzen entwickeln mit Micro:Bits, Calliope Mini und Co* at [Programm EduMediaLab 2017](#), Universität Innsbruck.
- 2017-11-09 Simon Haller and Philipp Zech teach a tutorial *Wie kann ein Roboter lernen, die Welt zu verstehen?* at [VWA- und Diplomarbeitentag](#), Universität Innsbruck. (VWA- und Diplomarbeitentag für Schülerinnen und Schüler von AHS und BHS.)
- 2017-10-05 Justus Piater gives an invited talk *Open-Ended Robot Learning: First Steps and Next Challenges* at [The Third International Workshop on Intrinsically Motivated Open-ended Learning \(IMOL 2017\)](#), Rome, Italy.
- 2017-09-24 Justus Piater co-organizes the [IEEE/RSJ IROS Workshop on Human in-the-loop robotic manipulation: on the influence of the human role](#).
- 2017-09-15 Justus Piater is a panelist at a public discussion on [Die Maschine denkt - die Maschine lenkt: Wie gefährlich ist Künstliche Intelligenz?](#), Graz, Austria.
- 2017-08-28 Simon Haller and Andrea Bou-Vinals teach a tutorial *Bau eines hydraulischen Roboter Arms* at [Kinder-Sommer-Uni 2017 \(Programm\)](#), Universität Innsbruck.
- 2017-08-25 Simon Haller and Katharina Seeber teach a tutorial *Ö1 Children's University Alpbach - Science and Technology for Kids: Workshop for the construction of hydraulic robot arms* at [European Forum Alpbach 2017 / Technology Symposium](#), Forum Alpbach.
- 2017-07-27 Justus Piater contributes a talk *Algorithmen und Datenstrukturen* at Sommertechnikum MINT, Universität Innsbruck. (Schnuppervorlesung)
- 2017-07-19 Justus Piater teaches a tutorial *Learning to Grasp Using More or Less Vision* at [Summer School on Soft Manipulation](#), Lake Chiemsee, Germany.
- 2017-06-28 Justus Piater gives an invited colloquium *Bootstrapping Robot Cognition From Sensorimotor Interaction* at Forschungsseminar am Institut für Christliche Philosophie, Universität Innsbruck.
- 2017-06-09 Simon Haller, Erwan Renaudo, and Philipp Zech present a show *1. Tiroler Pop-, Rock- und Tanz-Märchen für Erwachsene - "König Laurins Rosengarten" - Open Air* at [Tiroler Märchenfestival](#), Vögelsberg. (Mehrfache Auftritte beim 1. Tiroler Pop-, Rock- und Tanz-Märchen für Erwachsene am: 9./23.6.2017 und 8./9.7.2017)
- 2017-05-23 Simon Haller teaches a tutorial *A quick glance at BBC Micro:Bit and Calliope Mini* at ["inday teachers"](#), Universität Innsbruck.
- 2017-05-15 Justus Piater contributes a talk *Making Robots Learn to Perceive and Act with Understanding* at [Lorentz Workshop on Perspectives on Developmental Robotics](#), Leiden, Netherlands.
- 2017-04-27 Senka Krivic gives an invited colloquium *Towards Adaptive Mobile Manipulations* at [Talk in the Oberseminar - Intelligent Autonomous Systems](#), TU Darmstadt.
- 2017-04-21 Justus Piater gives an invited talk *Maschinelles Lernen - Eine Einführung mit Blick auf Digitale Geisteswissenschaften* at [Workshop über Digitale Methoden in den Geisteswissenschaften](#), Universität Innsbruck.
- 2017-03-23 Justus Piater gives an invited talk *Progress in Robot Learning - Is Modeling Crucial for Success?* at [Systems Engineering - Progress in Robot Modeling - Why Modeling is Crucial for Success](#), Edinburgh, Scotland. (Workshop at the European Robotics Forum)
- 2017-03-17 Simon Haller teaches a tutorial *Programming the BBC Micro:Bit* at [Slides and Code](#), AGI, Innsbruck, Angerzellgasse 15 .
- 2017-02-05 Simon Haller appears in the media: [Die liebste Himbeere der Bastler. TT Magazin Interview..](#)
- 2017-01-30 Justus Piater gives an invited colloquium *Probabilistic Visual Models for Gestural Human-Robot Interaction* at Colloquium hosted by Prof. Nicolae Sebe, University of Trento.


- 2016-12-09 Justus Piater gives an invited talk *From Machine Learning to Agency* at [EUCognition Meeting](#), Vienna, Austria.
- 2016-11-26 Justus Piater gives an invited talk *Roboter für Menschen – Menschen für Roboter* at [Uni im Dorf 2016](#), Ausservillgraten.
- 2016-11-26 Simon Haller and Katharina Seeber teach a tutorial *Bau eines hydraulischen Roboter Arms* at [Uni im Dorf 2016](#), Ausservillgraten.
- 2016-11-08 Simon Haller teaches a tutorial *Prototyping (autonomous) Robots using Python and ROS* at [Slides and Code](#), Innsbruck, Adamgasse 22.
- 2016-11-06 Senka Krivic appears in the media: [Webportal article \(ITgirls.ba\) following interview \(in Bosnian\)](#). (IT magazine interview on the SQUIRREL project and its challenges intended for a public audience.)
- 2016-10-14 Justus Piater gives an invited talk *Bootstrapping Complex Skills by Building on Experience* at [Workshop on Machine Learning Methods for High-Level Cognitive Capabilities](#), at IROS, Daejeon, Korea.
- 2016-10-04 Justus Piater gives an invited talk *From Machine Learning to Agency* at [NII Shonan Meeting on Cognitive Development and Symbol Emergence in Humans and Robots](#), Shonan Village Center, Japan.
- 2016-09-26 Justus Piater gives an invited talk *From Machine Learning to Agency* at ["Robotics in the 21st century: Challenges and Promises"](#), Gottingen, Germany.
- 2016-09-22 Justus Piater gives an invited talk *From Machine Learning to Agency* at [Conference on Agency and \(Quantum\) Physics](#), Konstanz, Germany.
- 2016-08-12 Simon Haller and Andrea Bou-Vinals teach a tutorial *Das Innenleben eines Computers* at [Kinder-Sommer-Uni 2016 \(Programm\)](#), Universität Innsbruck.
- 2016-08-03 Simon Haller and Andrea Bou-Vinals teach a tutorial *Das Innenleben eines Computers* at [Kinder-Sommer-Uni 2016 \(Programm\)](#), University of Innsbruck.
- 2016-05-01 Justus Piater appears in the media: [Wie Robin gelernt hat, einen Turm zu bauen. Newspaper article \(Der Standard\) following interview and demonstration.](#)
- 2016-05-01 Justus Piater appears in the media: [Wie Roboter die Zukunft der Arbeit verändern..](#) (Newspaper article in Tiroler Tageszeitung following interview)
- 2016-05-01 Simon Haller appears in the media: [Lebensretter und Rampensäue, 6020 Interview..](#)
- 2016-04-21 Justus Piater, Emre Ugur, and Simon Hangl appear in the media: [TV report on child-like robot learning by ORF 2 Tirol Heute \(in German\)](#). (TV interview on the SQUIRREL and Xperience projects and their challenges intended for a public audience.)
- 2016-04-21 Justus Piater and Emre Ugur appear in the media: [Web report on child-like robot learning by ORF \(in German\)](#).
- 2016-04-21 Justus Piater, Emre Ugur, and Simon Hangl appear in the media: [Radio report on child-like robot learning by ORF Ö1 Wissen Aktuell \(in German\)](#). (Radio report on the SQUIRREL and Xperience projects and their challenges intended for a public audience.)
- 2016-04-16 Philipp Zech appears in the media: [Print Article \(News\)](#). (News magazine interview on the SQUIRREL project and its challenges intended for a public audience.)
- 2016-04-05 Simon Haller appears in the media: [Die Zukunft der Roboter, TT Interview..](#)
- 2016-04-02 – 2016-04-03 Simon Haller, Sebastian Stabinger, Cornelia Vidovic, and Justus Piater co-organize the [RoboCupJunior Austrian Open 2016](#).
- 2016-03-02 Simon Haller gives an invited talk *Tips and Tricks for Rapid Prototyping using ROS* at [Robotics Seminar at Boğaziçi Üniversitesi](#), Istanbul, Turkey.
- 2016-02-29 – 2016-03-04 Justus Piater co-organizes the Winter School on Interactive Mobile Manipulation.

- 2016-02-21 Emre Ugur gives an invited talk *Closing the loop: From continuous exploration to symbolic planning* at [2nd International Workshop on Cognitive Neuroscience Robotics](#), Osaka, Japan.
- 2016-02-12 – Safoura Rezapour contributes a talk *Learning Compositional Object Representation with Functionality* at [AAAI-16 Robotics Fellowship Session](#), PHoenix, AZ, USA.
- 2016-02-17 Justus Piater appears in the media: Interview about potential for exploitation of ICT research by the Technology Transfer Center of Western Austria (WTZ West). (Public interview regarding economic challenges that are addressed by projects conducted or participated by IIS.)
- 2016-02-04 Justus Piater appears in the media: Interview about potential for exploitation of ICT research by the Technology Transfer Center of Western Austria (WTZ West). (Public interview regarding economic challenges that are addressed by projects conducted or participated by IIS.)
- 2016-02-03 Justus Piater appears in the media: [Newspaper article \(Tiroler Tageszeitung\) following interview and robot demonstrations.](#)
- 2016-01-22 Justus Piater teaches a tutorial *Grasping and Manipulation* at [GMAR Winter School on Robotics](#), Graz, Austria. (Tutorial on grasping and manipulation held at the GMAR winter school in Graz.)
- 2016-01-21 Philipp Zech contributes a talk *Grasp Affordance Density Learning* at [GMAR Winter School on Robotics](#), Graz, Austria. (Contributed talk on grasp affordance learning held at the GMAR winter school in Graz.)
- 2016-01-21 Simon Haller contributes a talk *Integrating Perception Neuron motion capturing into ROS* at [GMAR Winter School on Robotics](#), Graz, Austria. (Contributed talk on motion capturing held at the GMAR winter school in Graz.)
- 2016-01-21 Senka Krivic contributes a talk *Push Manipulation Skill* at [GMAR Winter School on Robotics](#), Graz, Austria. (Contributed talk on non-prehensile pushing held at the GMAR winter school in Graz.)
- 2016-01-01 – Emre Ugur edits a guest edition [Computational Models of Affordances for Cognitive Robots](#) in [IEEE Transactions on Cognitive and Developmental Systems](#).
- 2016-12-31 Justus Piater gives an invited talk *Distributions of Diverse Features For Single and Multiple-View Robot Vision* at [1st International Workshop on Recovering 6D Object Pose](#), at ICCV, Santiago, Chile.
- 2015-12-17 Antonio Rodriguez-Sanchez and George Azzopardi co-organize the [The First International Workshop on Computational Models of the Visual Cortex: Hierarchies, Layers, Sparsity, Saliency and Attention](#).
- 2015-12-03 – Justus Piater, Jan Peters, Robert Platt, and Siddhartha Srinivasa co-organize the [Dagstuhl Seminar 15411 on Multimodal Manipulation Under Uncertainty](#).
- 2015-12-05 Justus Piater gives an invited talk *Stacked learning for bootstrapping symbols from sensorimotor experience* at [Workshop on Learning Object Affordances: A fundamental step to allow prediction, planning and tool use in autonomous robots](#), at IROS, Hamburg, Germany.
- 2015-10-04 – Justus Piater, Jan Peters, Robert Platt, and Siddhartha Srinivasa co-organize the [Dagstuhl Seminar 15411 on Multimodal Manipulation Under Uncertainty](#).
- 2015-10-09 Justus Piater gives an invited talk *Stacked learning for bootstrapping symbols from sensorimotor experience* at [Workshop on Learning Object Affordances: A fundamental step to allow prediction, planning and tool use in autonomous robots](#), at IROS, Hamburg, Germany.
- 2015-09-28 Emre Ugur, Lorenzo Jamone, Angelo Cangelosi, Tamim Asfour, and Jose Santos-Victor co-organize the [Workshop on Learning Object Affordances: A fundamental step to allow prediction, planning and tool use in autonomous robots](#).
- 2015-09-28 Simon Hangl contributes a talk *Reactive, Task-specific Object Manipulation by Metric Reinforcement Learning* at [2nd Human Brain Project School on Future Computing](#), Obergurgl, Austria.
- 2015-08-04 Justus Piater gives an invited talk *Stacked learning of affordances* at [Workshop on Bottom-up and top-down development of robot skills](#), at ICAR, Istanbul, Turkey.
- 2015-07-31 Emre Ugur, Lorenzo Jamone, Yukie Nagai, and Erhan Oztop co-organize the [Workshop on Bottom-up and top-down development of robot skills](#).
- 2015-07-31 Emre Ugur gives an invited talk *Bootstrapping Concept Learning: From Simple to Complex Affordances to Symbolic Planning* at [Workshop on Learning Reusable Concepts in Robotics](#), at RSS, Rome, Italy.
- 2015-07-16 Emre Ugur gives an invited talk *Bootstrapping Concept Learning: From Simple to Complex Affordances to Symbolic Planning* at [Workshop on Learning Reusable Concepts in Robotics](#), at RSS, Rome, Italy.

- 2015-07-16 Justus Piater and Tamim Asfour co-organize the [Workshop on Learning Reusable Concepts in Robotics](#).
- 2015-06-03 – 2015-06-05 Safoura Rezapour contributes a talk *CPS: 3D Compositional Part Segmentation through Grasping* at [12th Conference on Computer and Robot Vision](#), Halifax, Nova Scotia.
- 2015-05-30 Justus Piater gives an invited talk *Robot vision in times of flight: RGB-D = red-green-blue is dead?* at [Workshop on Robotic Hands, Grasping, and Manipulation](#), at ICRA, Seattle, USA.
- 2015-05-04 Sebastian Stabinger appears in the media: Robotertechnik für Blinde: Interview with 20er about master project.
- 2015-02-06 Sebastian Stabinger appears in the media: [Eine Kamera als Sehhilfe: Audio interview with ipoint about master project](#).

2010-2014

- `#tiroltvvideo` { display: none; } `#tiroltvvideo:target` { display: block; } [Robotik an der Uni Innsbruck - TirolTV vom 1 Dezember 2014](#)
- Our following paper won the **Best Paper Award** at [ACML 2014](#):
Hanchen Xiong, Sandor Szedmak Justus Piater, Towards Maximum Likelihood: Learning Undirected Graphical Models using Persistent Sequential Monte Carlo. [\[Abstract\]](#) [\[BibTeX\]](#)
- Justus Piater is an **invited speaker** at the workshop on [Human versus Robot Grasping and Manipulation—How Can We Close the Gap?](#) at [RSS](#) July 12, 2014, at UC Berkeley.
- `#raivideo` { display: none; } `#raivideo:target` { display: block; } [RAI Südtirol - Tagesschau vom 12 Juli 2014](#)
- Justus Piater is co-organizing the [IROS Workshop on Robots in Clutter: Perception and Interaction in Clutter](#) in Chicago, September 18, 2014.
- Antonio Rodriguez-Sanchez is the editor of the special issue on *Frontiers in Computational Neuroscience* about [Hierarchical object representations in the visual cortex and computer vision](#).
- [Roboter, die von Menschen lernen](#) - (iPoint 03.01.2014, in German)
- Justus Piater is lecturing on Robot Vision at the [International Autumn School on "Human-Robot-Interaction](#), November 18th–22nd, 2013, TU Dresden, Germany.
- Emre Ugur is organizing the [IROS2013 Workshop on Neuroscience and Robotics: Towards a robot-enabled, neuroscience-guided healthy society](#) in Tokyo, 3 November 2013.
- Our following paper won a **Best Vision Paper Award**:
Damien Teney, Justus Piater, Continuous Pose Estimation in 2D Images at Instance and Category Levels. [Tenth Conference on Computer and Robot Vision](#), 2013. [\[PDF\]](#) [\[Abstract\]](#) [\[BibTeX\]](#)
- Justus Piater is co-organizing the [R:SS Workshop on Robots in Clutter: Preparing Robots for the Real World](#) in Berlin, 27 June 2013.
- Justus Piater is co-organizing the [ICRA 2013 Workshop on Semantics, Identification, and Control of Robot-Human-Environment Interaction](#) in Karlsruhe, 10 May 2013.
- Justus Piater is an **invited speaker** at the [ICRA 2013 Workshop on Bootstrapping Structural Knowledge from Sensory-motor Experience](#) in Karlsruhe, 6 May 2013.
- **Nicu Sebe**, professor of computer science at the University of Trento, is giving a talk on [Human-centered Computing: Challenges and Perspectives](#) on **April 18, 2013, at 16:15** in HS D.
- **Francisco Valero-Cuevas**, Professor of biomedical engineering and biokinesiology and physical therapy at the University of Southern California, is giving a talk on [Computational Neuromechanics](#) on March 14, 2013, at 16:15 in HS E.

- **Nicolai Petkov** is visiting IIS for three days, and is giving a talk on [Brain-inspired computing vision for machine vision](#) on 10 January 2013, 16:15, in HS C.
- Justus Piater and [Antonio Rodríguez-Sánchez](#) are organizing the **2013 ÖAGM/AAPR Workshop** in Innsbruck.
- [Learning from the Brain](#) - UIBK news 21/11/2012 reports on 2DSIL, a biologically-inspired model of shape representation.
- IIS has published a paper in PLoS One:
Antonio Rodríguez-Sánchez, John Tsotsos, The roles of endstopped and curvature tuned computations in a hierarchical representation of 2D shape. PLoS ONE 7 (8), pp. 1-13, 2012. 
[\[Abstract\]](#) [\[BibTeX\]](#)
- **Jim Little** is giving an extended talk on [Finding Objects in Cluttered Scenes for Home Robotics](#) on 24 April 2012, 14:15-15:30, in HS D.
- [Stille Welt - Gehörlos in Tirol](#) - the Tyrolean street newspaper reports on the [SignSpeak](#) project. (20er, pp. 6-7, April 2012, in German)
- Justus Piater is an **invited speaker** at the [CogSys 2012](#) Workshop on **Deep Hierarchies in Vision** in Vienna, 21 February 2012.
- [Übersetzungslücken schließen](#) - the UIBK supplement to an Austrian newspaper reports on our [SignSpeak](#) project ([wissenswert](#) 18 pp. 16-17, February 2012, in German)
- **Ales Leonardis** is giving a talk on [Combining compositional shape hierarchy and multi-class object taxonomy for efficient object categorisation](#) on 1 December 2011, 16:15, in HS C.
- Justus Piater is an **invited speaker** at the **29th Pattern Recognition and Computer Vision Colloquium** in Prague, 13 October 2011.
- Justus Piater is an **invited speaker** at the [R:SS](#) Workshop on **Mobile Manipulation: Learning to Manipulate** in Los Angeles, 27 June 2011.
- **Brian Moore** is giving a talk on [Transferring grasping skills from humans to robots](#) at the Computer Science Department (ICT Building, Seminar Room 1), 25 May 2011, 12.00-13.00.
- Justus Piater lectures at the **CogX 2011 Spring School** in Vienna, 27.4.-5.5.
- **Inaugural Lecture - Antrittsvorlesung** by Justus Piater: 14 April 2011 17:00 in the large auditorium of civil engineering - *Großer Hörsaal der Fakultät für Bauingenieurwissenschaften*. [Einladung \(Invitation, in German only\)](#) [Video \(in German only\)](#)
- [Schlaue Roboter im Haushalt](#) (iPoint 13.04.2011, in German)
- [Roboter lernen lernen](#) (zukunft forschung 2/2010, in German)

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