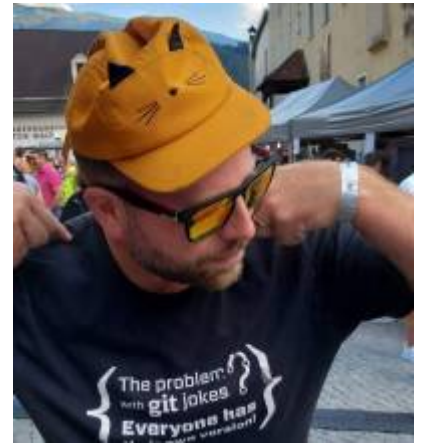




# Simon Haller-Seeber

## Scientific Systems Engineer

Office: T12 (ICT) 3W02

Phone: +43 512 507 53201

Email: [simon.haller-seeber@uibk.ac.at](mailto:simon.haller-seeber@uibk.ac.at)

Key Fingerprint: E3A2 8470 EB26 FCEB 5796 07A2 0C6F D316 41F4 1090

## Areas of Interest

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- System Automation,
- (Educational) Robotics and everything related to the topic
- Free Software

## Positions

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- Systems Engineer at the Department of Computer Science, Intelligent and Interactive Systems, University of Innsbruck (since 2010)
- Lecturer at the Faculty of Teacher Education, Department of Science Education (part time, 2018/2019)
- Systems Developer and Systems Administrator for Large Scale Linux Systems at the Central IT Services, University of Innsbruck (2005-2010)
- Internship at the [HyperStudio](#) at the Massachusetts Institute of Technology, Cambridge (02/2006)
- Systems Administrator (part time), User Support Department, Central IT Services, University of Innsbruck (2002-2005)

## Education

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- 06/2014 Apprentice Instructor
- 02/2012 Engineer Degree (Ing., granted by the Federal Ministry of Economics)
- 10/2006 Bachelor Degree in Computer Science (granted by the University of Innsbruck)
- 06/2000 Technical High School for Telecommunication ('HTL für Nachrichtentechnik')

## Talks and Workshops

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- A current list of talks and workshops can be found [here](#).

## Publications

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See also [Google Scholar](#)

1. Simon Haller-Seeber, Erwan Renaudo, Philipp Zech, Florian Westreicher, Markus Walzthöni, Cornelia Vidovic, Justus Piater, ROSSINI: RobOt kidS deSign thiNkIng. Robotics in Education,



pp. 16–25, 2021.

© Springer-Verlag [\[Link\]](#) [\[PDF\]](#) [\[Abstract\]](#) [\[BibTeX\]](#)

2. Patrick Lamprecht, Simon Haller-Seeber, Justus Piater, A Block-based IDE Extension for the



ESP32. Robotics in Education, pp. 304–310, 2021.

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[\[PDF\]](#) [\[Abstract\]](#) [\[BibTeX\]](#)

3. Erenus Yildiz, Tobias Brinker, Erwan Renaudo, Jakob Hollenstein, Simon Haller-Seeber, Justus Piater, Florian Wörgötter, A Visual Intelligence Scheme for Hard Drive Disassembly in Automated Recycling Routines.. International Conference on Robotics, Computer Vision and



Intelligent Systems, pp. 17–27, 2020. ROBOVIS 2020 Best Paper Award.

[\[Link\]](#) [\[PDF\]](#) [\[Abstract\]](#) [\[BibTeX\]](#)

4. Philipp Zech, Erwan Renaudo, Simon Haller, Xiang Zhang, Justus Piater, Action representations in robotics: A taxonomy and systematic classification. International Journal of Robotics Research



38 (5), pp. 518–562, 2019.



[\[Link\]](#) [\[PDF\]](#) [\[Abstract\]](#) [\[BibTeX\]](#)

5. Simon Haller, Über "Bildung 4.0", "Schule 4.0" und andere Dinge, die keine Versionierung brauchen. Medienimpulse, Volume: 26 (1), 2018. [\[Link\]](#) [\[PDF\]](#) [\[Online\]](#) [\[BibTeX\]](#)
6. Thiusius Savarimuthu, Anders Buch, Christian Schlette, Nils Wantia, Jürgen Rossmann, David Martínez, Guillem Alenyà, Carme Torras, Aleš Ude, Bojan Nemec, Aljaž Kramberger, Florentin Wörgötter, Eren Aksoy, Jeremie Papon, Simon Haller, Justus Piater, Norbert Krüger, Teaching a Robot the Semantics of Assembly Tasks . IEEE Transactions on Systems, Man, and Cybernetics:



Systems 48 (5), pp. 670–692, 2018.

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7. Stefan Spiss, Yeongmi Kim, Simon Haller, Matthias Harders, Comparison of Tactile Signals for Collision Avoidance on Unmanned Aerial Vehicles. [Haptic Interaction \(Proceedings of the 2nd](#)



[Asia Haptics Conference, 2016](#)), pp. 393–399, 2018. Springer LNEE 432.

© Springer-Verlag [\[Link\]](#) [\[PDF\]](#) [\[Abstract\]](#) [\[BibTeX\]](#)

8. Philipp Zech, Simon Haller, Safoura Rezapour Lakani, Barry Ridge, Emre Ugur, Justus Piater, Computational models of affordance in robotics: a taxonomy and systematic classification.



Adaptive Behavior 25 (5), pp. 235–271, 2017.



[\[Link\]](#) [\[PDF\]](#) [\[Abstract\]](#) [\[BibTeX\]](#)

9. Thiusius R. Savarimuthu, Anders G. Buch, Yang Yang, Simon Haller, Jeremie Papon, David Martínez, Eren Aksoy, Manipulation Monitoring and Robot Intervention in Complex Manipulation Sequences. [Workshop on Robotic Monitoring](#), 2014 (Workshop at RSS). Extended Abstract. [\[Link\]](#) [\[PDF\]](#) [\[BibTeX\]](#)
10. David Martínez, Guillem Alenyà, Pablo Jiménez, Carme Torras, Jürgen Roßmann, Nils Wantia, Eren Aksoy, Simon Haller, Justus Piater, Active Learning of Manipulation Sequences. International Conference on Robotics and Automation, pp. 5671–5678, 2014.



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## Apprentice

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- Bryan Fasching (since 04/2020)
- Adnan Ali (05/2018 - 05/2019)
- Tizian Müller (09/2014 - 02/2018)

## (Co-)Supervised Theses

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- Nico Vergeiner, Thesis: Development of simulation scenarios for testing self-driving cars, ongoing.
- Tobias Steiner, Thesis: Building and programming quadcopters for school teaching (working title), ongoing.
- Fabian Wechselberger, Thesis: Management tool for electrical appliances using IoT devices (working title), ongoing.
- Sebastian Bergner, Fabian Kranewitter, IT-Kolleg Thesis: Vision Pipeline for ROS, 2020/06.
- Patrick Lamprecht, Thesis: [Entwicklung eines Block Programming Interfaces für den Microcontroller ESP32 zum Einsatz im modernen Informatikunterricht](#), 2019/11.
- Jacob Jordan, Thomas Leitner, HTL-Dipl. Thesis: Schwarmintelligenz für autonomes Fahren, 2019/05.
- Lee Chhong Shing, Thesis: [Haptic Exploration of Images for the Visually Impaired](#), 2017/06/20.
- Adrian Marxer, Thesis: [Visual SLAM for Terrain Reconstruction and Autonomous Flight](#), 2016/04/19.
- Stefan Spiss, Thesis: [Intuitive Human-Computer Interface for Quadcopter Control](#), 2016/04/19.
- Alexander Falch, Thesis: [Entwicklung eines web-basierten Verwaltungstools zur Protokollierung und Zugangssteuerung von Industriegeräten](#), 2015/12/15.
- Alexander Hirsch, Thesis: [Improved On-Board Communication for Low-Cost Mobile Robots](#), 2014/10/14.
- Martin Kolb, Thesis: [Face-Tracking mit Scratch](#), 2013/06/25.

## Teaching Assistance

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- ~~Enabling Music II [VU 703709 | summer term: 2020]~~ postponed to 2021
- Connective Playthings [VU/PR 800770/1 | summer term: 2019]
- Fachpraktikum [PR 627824 | winter term: 2018/19]
- Informatik Praktikum Robotik [PR 703051 | summer term: 2018]
- Enabling Music [SE 800709 | winter term: 2017/18]
- Bridge-Course [VO 703000 | winter term: 2012-2018]
- Introduction to Autonomous and Intelligent Systems [PS 703031 | summer term: 2013-2017]

## Projects

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- [IMAGINE](#) (EU Horizon 2020, current - 2018)
- [Squirrel](#) (EU FP7-ICT-STREP, 2016-2018)
- [PaCMan](#) (EU FP7-ICT-STREP, 2014-2016)
- [Networking Lake Observatories in Europe](#) (COST Action ES1201, 2013-2016)
- [IntellAct](#) (EU FP7-ICT-STREP, 2011-2014)

## Initiatives, Events, Misc

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- Science Slam: [Explainable AI: A sneak peek into the Black-Box](#), (11/2020)
- Erasmus+ Teaching Staff Exchange, Holon Institute of Technology, Holon, Israel (05/2019).
- [RoboCup Junior 2016/2019](#)
- Frau Hitt and the 19 Questions: [AR Implementation of "Who will be granted a second chance?"](#) (with Stefan Spiss, [code](#), 02/2019).
- RobOt kidS deSign thiNking ([rossini workshops](#), since 2018)
- HIT Hackathon 2018 ([Press](#), [Video](#))
- Computer Camp Malbun (since 2003)
- Co-Organizing Free Software Events ([IFIT 2003](#), [IFI10 2011](#), [RMS Talk 2017](#), [Panel Discussion 2017](#))
- Robot Support for [König Laurins Rosengarten 2017](#)
- Co-Organizing 1st [Stupid Hackathon Tirol 2015](#)
- Capture the Flag (CTF @ IFI 10) 2011
- Support for a state licensed IT-Center in Koudougou ([AILED](#), 2009-2010)

## Boards and Organisations

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- Chairman of the registered association "brainity" (since 2006)
- Chairman of the registered association "Natur Mensch Technik" (since 2003)
- Member of the [academic senate](#) at the University of Innsbruck (2004-2009)
- Member of the [science student representative body](#) (2004-2007).
- Member of the [student's counsel](#) for Informatics Students (2003-2008).

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