

Curriculum Vitae – Christian Smith (2025-01-06)

I. Basic Information

A. Personal

Full name:	Date of birth:
Claes Christian Smith	1975-08-28

B. Workplace contact details

phone: +46 8 790 6728	KTH/EECS/RPL
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	Sweden

C. Summary

Christian Smith is an Associate Professor in Computer Science at the Robotics, Perception, and Learning Laboratory at KTH in Stockholm. He received his MSc in Engineering Physics from the KTH in 2005, and a PhD in Computer Science from KTH in 2009. He has been a visiting researcher at Advanced Telecommunications Research International in Japan. He is currently the Secretary of the Swedish Chapter of the IEEE Robotics and Automation Society. His research interests include algorithms and methods for robot manipulation under uncertainty, in unstructured and human-centric environments.

D. Current employment

20171101– Associate Professor in Computer Science Within the Area of Robotics and Autonomous Systems (swedish: lektor i datalogi inom robotik och autonoma system) at the Robotics, Perception, and Learning Lab, School of Electrical Engineering and Computer Science (EECS), KTH Royal Institute of Technology, Stockholm, Sweden

E. Recent previous employments

20140101 – 20171031	Assistant Professor in Computer Science Within the Area of Robotics and Autonomous Systems, KTH
20130501 – 20131231	Researcher, KTH
20110501 – 20130430	Postdoctoral, KTH
20100601 – 20110331	Postdoctoral Researcher at Intelligent Robotics and Communication Laboratories, Advanced Telecommunications Research Institute International (ATR), Kyoto, Japan.
20100301 – 20100531	Researcher, KTH
20050701 – 20091231	PhD Student, KTH
20040607 – 20041105	Research Intern at Intelligent Robotics and Communication Laboratories, ATR.

II. Higher Education Degrees

- 2017 Docent in Computer Science Within the Area of Robotics and Autonomous Systems (swedish: Docent i datalogi med inriktning mot robotik och autonoma system) KTH – Royal Institute of Technology, Sweden.
- 2009 PhD in Computer Science (swedish: Teknologie doktor i datalogi) KTH – Royal Institute of Technology, Sweden. Supervisor: Prof. Patric Jensfelt. Thesis: “Input Estimation for Teleoperation”.
- 2005 MSc in Engineering Physics (swedish: Civilingenjör i Teknisk Fysik) KTH – Royal Institute of Technology, Sweden. Thesis work performed at Advanced Telecommunications Research International, Kyoto, Japan. Supervisors: Dr. Takayuki Kanda and Prof. Henrik Christensen. Thesis: “Behavior Adaptation for a Socially Interactive Robot”.
- 2000 BA in Japanese (swedish: Filosofie kandidat i japanska) Stockholm University, Sweden. Minor in business administration.

III. Projects and grants

- 2024 “Adaptive Intelligent Homes”, Digital Futures Collaborative Impact Project. Awarded grant amount: 500 000 SEK. Role: PI. 2024–2025
- 2021 “Advanced Adaptive Intelligent Systems (AAIS)”, Digital Futures Collaborative Project. Awarded grant amount: 5 000 000 SEK. Role: PI. 2021–2025.
- 2019 “Inläring av beslutsstrukturer för industriell automation”. SSF Industrial PhD Student Project. Awarded grant amount: 2 500 000 SEK. Role: PI, Academic Supervisor. 2019–2023
- 2018 “Autonomous learning of control architectures for real-time industrial robot automation in a dynamic environment”. WASP Industrial PhD Student Project. Awarded grant amount: 2 500 000 SEK to cover student cost, and 15% of supervisor salary costs for 4 years. Role: PI, Academic Supervisor. 2018–2025
- 2016 “Automed”. Vinnova Utmaningsdriven Innovation. Total Budget 10 000 000 SEK over 24 months, of which 2 045 000 SEK assigned to RPL/CSC at KTH. Role: Principal applicant.
- 2015 “CENTAURO”. EU H2020 Research and Innovation Action. Total budget 4 124 915 Euro over 42 months, of which 487 625 Euro assigned to RPL/CSC at KTH. Role: Co-applicant. Principal applicant: prof. Patric Jensfelt, RPL/CSC.
- 2015 “RobDREAM”. EU H2020 Research and Innovation Action. Total budget 5 401 911 Euro over 36 months, of which 686 500 Euro assigned to RPL/CSC at KTH. Role: Co-PI. PI: prof. Danica Kragic, RPL/CSC.

2014 “Constraint-Based Cooperative Manipulation”, ICT The Next Generation - Demonstration Project, Budget of 500 000 SEK for 2014. Role: Principal Applicant.

IV. Conference Activities

Organizer for Workshop on Real-World Physical and Social Human-Robot Interaction, 2024 IEEE-RAS 23rd International Conference on Humanoid Robots.

Financial Chair for the IEEE International Conference on Robotics and Automation (ICRA), which was organized by the Centre for Autonomous Systems at KTH in 2016.

Associate editor for IEEE International Conference on Intelligent Robots and Systems (IROS).

Associate editor for IEEE International Conference on Robots and Automation (ICRA).

Associate editor for IEEE International Conference on Humanoid Robots (Humanoids).

Session chair for session on Force Control at IEEE/RSJ International Conference on Intelligent Robots and Systems, October 10, 2012 Vilamoura, Portugal.

Co-organizer of invited session on “Mobile manipulation for household applications”, at 12th IFAC Symposium on Robot Control (SyRoCo12), September 7, 2012, Dubrovnik, Croatia.

V. Awards

Best Poster Award, HAI 2023

Nominated for Humanoids 2019 Mike Stillman Award

Nominated for Humanoids 2019 Best Oral Paper

Nominated for the IROS 2012 Best Application Paper.

VI. Reviewer experiences/expert assignments

Associate editor for IEEE Robotics and Automation Letters (RA-L) 2016–ongoing.

Reviewer for NWO - Dutch Research Council Research Proposal. 2022

VII. Exhibitions

November 2013 Exhibitor with robot demonstration for the exhibit “Uppfinnaryra!” at the Nobel museum in Stockholm

November 2014 Project leader and exhibitor for the the robot display at the exhibition “Forskning pågår” at Tekniska muséet in Stockholm.

VIII. Society

January 2014 - present Secretary of the Swedish Chapter of the IEEE Robotics and Automation Society.

IX. Publications

Total number: 87

Complete list available at:

<https://scholar.google.com/citations?user=WBSmyKkAAAAJ&hl=en>