FETHİYE IRMAK DOĞAN

Postdoctoral Research Associate
University of Cambridge, UK
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OBJECTIVE Advancing autonomous robots to understand, interact, and collaborate with people

INTERESTS Human-Robot Interaction, Robot Learning, Explainability, Deep Learning

EDUCATION

Ph.D. in Computer Science, KTH Royal Institute of Technology 01.2018-03.2023
- `Thesis:` Robots That Understand Natural Language Instructions and Resolve Ambiguities
- `Thesis Advisor:` Assoc. Prof. Iolanda Leite
- `Thesis Committee:` Prof. David Traum (Opponent, USC Institute for Creative Technologies), Assoc. Prof. Jean Oh (Carnegie Mellon University), Assoc. Prof. Luísa Coheur (University of Lisbon) & Dr. Emmanuel Senft (Idiap Research Institute)
- 61.0 ECTS credits in PhD-level courses (≈ one academic year; graded pass/fail basis)

M.Sc. in Computer Engineering, Middle East Technical University 09.2015-01.2018
- `Thesis:` *Hierarchical Incremental Context Modeling in Robots*
- `Thesis Advisor:` Prof. Sinan Kalkan
- Graduated with High Honours degree - CGPA: 3.93/4.00

B.Sc. in Computer Engineering, Middle East Technical University 09.2010-06.2015
- Graduated with Honours degree

EMPLOYMENT AND RESEARCH EXPERIENCE

*Postdoctoral researcher at **University of Cambridge**, UK* 04.2024-present
- `Topics:` Generating socially appropriate robot actions leveraging LLMs and explainability
- `Projects:` ARoEQ (UKRI project), Google GIG project & MICRO (ESRC project)
- `Advisor:` Prof. Hatice Gunes, Affective Intelligence and Robotics Laboratory (AFAR)
- `Outputs:` Publication J3, C19, C17, C14

*Postdoctoral researcher at **KTH Royal Institute of Technology*** 03.2023-04.2024
- `Topics:` Continual learning & explainability for robots to assist people's daily tasks
- `Project:` Partially involved in PerCorSo (WASP project)
- `Advisor:` Prof. Iolanda Leite, Division of Robotics, Perception and Learning
- `Outputs:` Publication J4, C16, C15, C13, C12, W6

Doctoral researcher at KTH (employed for 80% research, 20% teaching) 01.2018-03.2023
- `Topics:` Generating follow-up clarifications (either semantic or visual) for robots to resolve ambiguities in user instructions
- `Advisor:` Prof. Iolanda Leite, Division of Robotics, Perception and Learning
- `Outputs:` Publication J2, J1, C18, C11, C10, C9, C8, C7, C6, C3, W5, W4, W3, W2

*Visiting scholar at **Georgia Institute of Technology**, USA* 11.2021-04.2022
- `Topics:` Developing a semantically-driven disambiguation method to handle ambiguous user requests with clarifying questions
- `Advisor:` Prof. Sonia Chernova, Robot Autonomy and Interactive Learning (RAIL) Lab
- `Outputs:` Publication C18, C11

*Participating in **Oxford Machine Learning Summer School*** 07.2021-08.2021
- `Topics:` Selected to participate in the highly selective summer school (∼ 15% acceptance rate) for best-in-class training on machine learning and deep learning

*Participating in **Amazon Alexa Prize**, KTH Fantom Team* 02.2018-08.2018
- `Topics:` Through a highly competitive process, selected as one of the teams to create a social bot for Amazon Alexa (∼ 4% acceptance rate)
- `Advisor:` Prof. Gabriel Skantze, Division of Speech, Music and Hearing
- `Outputs:` Publication C6, C3

*Researcher at **Middle East Technical University**, Turkey* 09.2015-01.2018
- `Topics:` Incremental context modelling for robots in real-world environments
- `Project:` Context in Robots (TUBITAK project)
- `Advisor:` Prof. Sinan Kalkan, Kovan Robotics Lab
- `Outputs:` Publication C5, C4, C1, W1, T1

Senior Design Project at *Middle East Technical University* 09.2014-06.2015
- `Topics:` 3D animation of fMRI data to visualise the cognitive processes in the brain
- `Advisor:` Prof. Fatos Tunay Yarman Vural, ImageLab
- `Outputs:` Publication C2

Research intern at ***University of Southern Denmark*** 06.2014-09.2014
- `Topics:` A plugin providing a GUI for automated calibration of UR robot arms
- `Advisor:` Prof. Norbert Krueger, SDU Robotics

Research intern at Middle East Technical University 06.2013-09.2013
- `Topics:` Visualising the 2D and 3D representations of the iCub robot's vision
- `Advisor:` Prof. Sinan Kalkan, Kovan Robotics Lab

Part time software developer at Özgür Yazılım Company 02.2013-06.2013
- `Topics:` Taking a role in the development of the Tekir Accounting Program

HONORS AND AWARDS

- **Outstanding Women in Robotics & Automation Paper Award** Finalist 2025
  `Topic:` Top 3 Finalist for Early Career Contribution Award (Publication C19)
  `Awarded by:` IEEE International Conference on Robotics & Automation (ICRA)
- **KROS Interdisciplinary Research Award in Social HRI** 2025
  `Topic:` *"Robot-Led VLM Wellbeing Assessment of Children"* (Publication C17)
  `Awarded by:` IEEE Int. Conf. on Robot and Human Interactive Communication (RO-MAN)
- **IEEE Best Paper Award** and **IEEE Best Student Paper Award** Finalist 2025
  `Topic:` Top 3 Finalist for both award categories (Publication C17)
  `Awarded by:` IEEE Int. Conf. on Robot and Human Interactive Communication (RO-MAN)
- **Future Digileader**, Digitalize in Stockholm Conference 2025
  `Topic:` The event brings together selected global research leaders and rising stars working to drive digital transformation across academia, industry, government, and civil society
  `Awarded by:` Digital Futures Research Center, KTH Royal Institute of Technology
- **Seal of Excellence Project Proposal Award** 2025
  `Topic:` Marie Sklodowska-Curie Postdoctoral Fellowship for top applicants above 85% score
  `Awarded by:` European Commission
  `Project:` "Socially Appropriate and Adaptive Robot Behaviour (SAARO)"
- Special Recognition for Outstanding Reviews 2024
  `Awarded by:` ACM/IEEE International Conference on Human-Robot Interaction
- Research Associate at Darwin College 2024
  `Topic:` Competitive selection process based on research excellence and academic merit
  `Awarded by:` Darwin College, University of Cambridge
- **DAAD AInet Fellowship** 2022
  `Topic:` Research fellowship for outstanding early-career researchers in AI and robotics
  `Awarded by:` German Academic Exchange Service (DAAD)
- **RSS Pioneers**, Robotics: Science and Systems 2021
  `Topic:` Pioneers award that gathers the world's top early-career researchers in robotics
  `Awarded by:` Robotics: Science and Systems (Publication W5)
- **Honourable mention paper award**, ACM CUI 2019
  `Topic:` "*Crowdsourcing a self-evolving dialog graph*" (Publication C6)
  `Awarded by:` ACM Conference on Conversational User Interfaces (CUI)
- High honour certificates (Spring 2014-2015, Fall 2014-2015, Spring 2013-2014, Fall 2013-2014) & honour certificate (Spring 2012-2013)
  `Awarded by:` Middle East Technical University

GRANTS AND FUNDS

– Contributor to the **School of Technology Seed Fund Grant** 2024
`Awarded by:` University of Cambridge
`Project:` "Can social robots help for mediation and advocacy for students with disabilities?"
`Budget:` £10.000 GBP

– Travel grant from ACL Annual Conference of NAACL-HLT 2019
`Awarded by:` North American Chapter of the Association for Computational Linguistics
`Budget:` $500 USD

– Travel grant from IEEE ICRA 2018
`Awarded by:` IEEE International Conference on Robotics and Automation
`Budget:` $1137.15 USD

– Travel grant from IEEE/RSJ IROS 2018
`Awarded by:` IEEE International Conference on Intelligent Robots and Systems
`Budget:` Up to €500.00 EUR

INVITED TALKS

`Title:` *"Shaping Robot Behaviour through Explanations and Expectations in HRI"*
– **Keynote speaker on Robo-Identity Workshop**, IEEE RO-MAN 2025

`Title:` *"Autonomous and Explainable Robots in Human Environments"*
– **Keynote speaker on CHIA Early Career Conference** 2025
– Seminar talk at the Designing Intelligence Lab, Delft University of Technology 2025
– Interaction Division Colloquium, Utrecht University 2025
– Science seminar, Darwin College, University of Cambridge 2025

`Title:` *"Robots That Understand Natural Language Instructions and Resolve Ambiguities"*
– **Google DeepMind Research Ready Program**, University of Cambridge 2024
– **Talking Robotics**, a series of seminars about Robotics and AI 2021
– **Oxford Machine Learning Summer School**, Unconference Track 2021
– Seminar talk ar RAIL Research Lab, Georgia Institute of Technology 2021
– Seminar talk at Image Lab, Middle East Technical University 2021

SCIENTIFIC CONTRIBUTIONS

Journal Articles

J4 E. Yadollahi*, **F. I. Doğan***, Y. Zhang, B. Nogueira, T. Guerreiro, S. Levy-Tzedek, and I. Leite, 'Expectations, Explanations, and Embodiment: Attempts at Robot Failure Recovery'. (under review for *Int. Journal of Human-Computer Studies*)

J3 W. Tang, **F. I. Dogan**, L. Qing, H. Gunes, 'AsyReC: A Multimodal Graph-based Framework for Spatio-Temporal Asymmetric Dyadic Relationship Classification', *IEEE Transactions on Circuits and Systems for Video Technology.* (IN PRESS)

J2 **F. I. Doğan**, G. I. Melsión, and I. Leite, 'Leveraging Explainability for Understanding Object Descriptions in Ambiguous 3D Environments', *Frontiers in Robotics and AI*, Volume 9, p. 937772, 2023.

J1 **F. I. Doğan**, S. Gillet, E. J. Carter, and I. Leite, 'The Impact of Adding Perspective-Taking to Spatial Referencing during Human-Robot Interaction', *Robotics and Autonomous Systems (RAS)*, Volume 134, p. 103654, 2020.

Refereed Conference Publications

C19 **F. I. Doğan**, U. Ozturk, G. Cinar, and H. Gunes, 'GRACE: Generating Socially Appropriate Robot Actions Leveraging LLMs and Human Explanations', *Proceedings of IEEE Int. Conf. on Robotics and Automation (ICRA)*, pp. 4330-4336, 2025.

C18 **F. I. Doğan**, M. Patel, W. Liu, I. Leite, and S. Chernova, 'A Model-Agnostic Approach for Semantically Driven Disambiguation in Human-Robot Interaction ', *Proceedings of IEEE International Conference on Robot and Human Interactive Communication (RO-MAN)*, 2025. (IN PRESS)

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* Equal Contribution

C17 N. I. Abbasi*, **F. I. Dogan***, G. Laban*, J. Anderson, T. Ford, P. B. Jones, H. Gunes, 'Robot-Led Vision Language Model Wellbeing Assessment of Children', *Proceedings of IEEE International Conference on Robot and Human Interactive Communication (RO-MAN)*, 2025. (IN PRESS)

C16 A. Leszczynski, S.Gillet, I. Leite, and **F. I. Dogan**, 'BT-ACTION: A Test-Driven Approach for Modular Understanding of User Instruction Leveraging Behaviour Trees and LLMs', *Proceedings of IEEE International Conference on Robot and Human Interactive Communication (RO-MAN)*, 2025. (IN PRESS)

C15 E. Bartoli, **F. I. Doğan**, and I. Leite 'STREAK: Streaming Network for Continual Learning of Object Relocations under Household Context Drifts', *Proceedings of IEEE Int. Conf. on Robot and Human Interactive Comm. (RO-MAN)*, 2025. (IN PRESS)

C14 E. Yadollahi, **F. I. Doğan**, M. Romeo, D. Kontogiorgos, P. Qian, and Y. Zhang, '3rd Workshop on Explainability in Human-Robot Collaboration: Real-World Concerns,' *Proceedings of ACM/IEEE HRI*, pp. 1994–1996, 2025.

C13 G. Hadjiantonis, S. Gillet, M. Vázquez, I. Leite, and **F. I. Doğan**, 'Let's move on: Topic Change in Robot-Facilitated Group Discussions', *Proceedings of IEEE Int. Conf. on Robot and Human Interactive Comm. (RO-MAN)*, pp. 2087-2094, 2024.

C12 E. Yadollahi, M. Romeo, **F. I. Doğan**, W. Johal, M. D. Graaf, S. Levy-Tzedek and I. Leite, 'Explainability for Human-Robot Collaboration,' *Companion of ACM/IEEE International Conference on Human-Robot Interaction (HRI)*, pp. 1364-1366, 2024.

C11 M. Pattel*, **F. I. Doğan***, Z. Zeng, K. Baraka, and S. Chernova, 'Semantic Scene Understanding for Human-Robot Interaction ,' *Companion of ACM/IEEE International Conference on Human-Robot Interaction (HRI)*, pp. 941 - 943, 2023.

C10 **F. I. Doğan**, I. Torre , and I. Leite, 'Asking Follow-Up Clarifications to Resolve Ambiguities in Human-Robot Conversation', *Proceedings of ACM/IEEE International Conference on Human-Robot Interaction (HRI)*, pp. 461-469, 2022.

C9 M. Iovino, **F. I. Doğan**, I. Leite, and C. Smith, 'Interactive Disambiguation for Behavior Tree Execution', *Proceedings of IEEE International Conference on Humanoid Robots (Humanoids)*, pp. 82-89, 2022.

C8 A Panesar, **F. I. Doğan**, and I. Leite, 'Improving Visual Question Answering by Leveraging Depth and Adapting Explainability', *Proceedings of IEEE Int. Conf. on Robot and Human Interactive Communication (RO-MAN)*, pp. 252-259, 2022.

C7 **F. I. Doğan**, S. Kalkan, and I. Leite, 'Learning to Generate Unambiguous Spatial Referring Expressions for Real-World Environments', *Proceedings of IEEE/RSJ International Conf. on Intelligent Robots and Systems (IROS)*, pp. 4992-4999, 2019.

C6 P. Jonell, P. Fallgren, **F. I. Doğan**, J. Lopes, U. Wennberg, and G. Skantze, 'Crowdsourcing a self-evolving dialog graph', *Proceedings of the ACM International Conference on Conversational User Interfaces (CUI)*, pp. 1-8, 2019.

C5 **F. I. Doğan***, İ. Bozcan*, M. Celik, and S. Kalkan, 'Cinet: A learning based approach to incremental context modeling in robots', *Proceedings of IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS)*, pp. 4641-4646, 2018.

C4 **F. I. Doğan**, H. Çelikkanat, and S. Kalkan, 'A Deep Incremental Boltzmann Machine for Modeling Context in Robots', *Proceedings of IEEE ICRA*, pp. 2411-2416, 2018.

C3 P. Jonell, M. Bystedt, **F. I. Doğan**, P. Fallgren, J. Ivarsson, M. Slukova, U. Wennberg, J. Lopes, J. Boye, and G. Skantze, 'Fantom: A crowdsourced social chatbot using an evolving dialog graph', *Proceedings of Alexa Prize SocialBot Grand Challenge*, 2018.

C2 O. Yıldız, **F. I. Doğan**, İ. Öztekin, E. Mızrak, and F. T. Y. Vural, 'A robust normalization method for fMRI data for brain decoding', *Proceedings of IEEE Signal Processing and Communication Application Conference (SIU)*, pp. 2269-2272, 2016.

C1 **F. I. Doğan**, S. Kalkan, 'The Hierarchical Nature of Context', *Turkey Robotics Conference (ToRK)*, 2016. (written in Turkish)

Refereed Workshop Contributions

W6 E. Bartoli, **F. I. Doğan**, and I. Leite, 'Contextualized Knowledge Graph Embeddings for Activity Prediction in Service Robotics', *Workshop on SSU for HRI*, HRI 2023.

W5 **F. I. Doğan**, 'Social Robots That Understand Natural Language Instructions and Resolve Ambiguities', *RSS Pioneers Workshop*, RSS 2021.

W4 I. Torre, **F. I. Doğan**, and D. Kontogiorgos, 'Voice, Embodiment, and Autonomy as Identity Affordances', *Workshop on Robo-Identity*, HRI 2021.

W3 **F. I. Doğan**, and I. Leite, 'Open Challenges on Generating Referring Expressions for Human-Robot Interaction', *Workshop on NLG for HRI*, INLG 2020.

W2 **F. I. Doğan**, S. Kalkan, and I. Leite, 'Learning to Generate Unambiguous Spatial Referring Expressions for Real-World Environments', *SpLU-RoboNLP Workshop*, Annual Conference of the North American Chapter of ACL (NAACL-HLT), 2019.

W1 **F. I. Doğan**, H. Çelikkanat, I. Bozcan, and S. Kalkan, 'Learning to Increment A Contextual Model', *Workshop on Continual Learning*, NeurIPS 2018.

POSTERS AND DEMOS

- AI-CARING Symposium 2022
- Invited demo on SIGDIAL Conference 2019
- SpLU-RoboNLP Workshop at the NAACL-HLT Conference 2019
- SoRos Workshop 2018 and 2019
- Amazon Alexa Prize Summit 2018

TEACHING

Guest Lecture in the Affective AI Course, University of Cambridge 11.2024

- `Provided Lecture:` "Explainability for Social/Affective AI"
- `Course:` L344 Affective Artificial Intelligence
- `Course level:` MPhil in Advanced CS and Part III (9-month taught master's course)
- `# of students registered:` 24 students

Teaching Assistant at Interaction Design, University of Cambridge 04.2024-06.2024

- `Role:` Group project supervision for user-centred interaction design
- `Course:` Interaction Design
- `Course level:` Part IA CST (first year undergraduate in Computer Science)
- `# of students registered:` more than 100

Lecturer at Social Robotics Course, KTH 10.2023-01.2024

- `Provided Lectures:` "Perception of human social signals", "Dialogues, verbal/non verbal communication", "Social Learning for robots" & "Explainability & Theory of Mind in HRI"
- `Role:` Lectures, robotics tutorial, and group project supervision for social robot interaction
- `Course:` DD2413 Social Robotics
- `Course level:` MS students in Computer Science and Engineering programs
- `# of students registered:` 34 students

Teaching Assistant at Machine Learning Course, KTH 01.2019-03.2022

- `Role:` Lab assignment support and examination on traditional ML methods (Bayes Classifiers and Boosting, Support Vector Machines, Decision Trees)
- `Course:` DD2421 Machine Learning, 2019-2020, 2020-2021, 2021-2022 (offered twice per year)
- `Course level:` MS students in Computer Science and Engineering programs
- `# of students registered:` more than 300 students per semester

Teaching Assistant at C programming language course, METU 02.2014-06.2014

- `Role:` Lab examination support on C programming language course
- `Course:` CENG140 C programming
- `Course level:` BS students in Engineering programs
- `# of students registered:` more than 300 students

SUPERVISION

PhD Students

- Massimiliano Nigro (visiting student at Cambridge) 2025-present
  `Program & Home Institution:` PhD student in Computer Science, Politecnico di Milano
  `Project:` Robot-led group discussion, context and referee prediction
  `Role:` Project co-supervisor
- Wang Tang (visiting student at Cambridge) 2024-present
  `Program & Home Institution:` PhD candidate in Computer Science, Sichuan University
  `Project:` Asymmetric dyadic relationship classification
  `Role:` Project co-supervisor (Publication *J4*)
- Ermanno Bartoli 2023-2024
  `Program & Institution:` PhD student in Computer Science, KTH Royal Institute of Tech.
  `Project:` Continual learning for dynamic object location changes in household setups
  `Role:` Project co-supervisor (Publications *C14* and *W6*)
- Anna Deichler 2023-2024
  `Program & Institution:` PhD student in Computer Science, KTH Royal Institute of Tech.
  `Project:` Multimodal dataset gathering for referential referring expressions in VR
  `Role:` Project co-mentor

MS Students

- Rafal Karpiński (visiting student at Cambridge) 2024-present
  `Program & Home Institution:` MS student in Computer Science, Utrecht University
  `Thesis:` Continual learning for socially appropriate robot actions in home and office contexts
  `Role:` MS thesis supervisor
- Jesher Joshua (visiting student at Cambridge) 2024-2025
  `Program & Home Institution:` MS in Computer Science, Vellore Institute of Technology
  `Project:` Unsupervised clustering of user nonverbal cues in journaling sessions
  `Role:` Project co-supervisor
- Alexander Leszczynski 2024-2025
  `Program & Institution:` MS in Computer Science, KTH Royal Institute of Technology
  `Thesis:` Leveraging LLMs and Behavior Trees for Understanding User Instructions
  `Role:` MS thesis supervisor (Publication *C15*, senior author)
- Aiman Shenawa 2024-2025
  `Program & Institution:` MS in Computer Science, KTH Royal Institute of Technology
  `Thesis:` Task specific evaluation of LLMs: A study for human-robot interaction
  `Role:` MS thesis supervisor
- Georgios Hadjiantonis 2023-2024
  `Program & Institution:` MS in Computer Science, KTH Royal Institute of Technology
  `Thesis:` ML for topic change in robot-moderated discussions using non-verbal features
  `Role:` MS thesis supervisor (Publication *C12*, senior author)
- Amrita Panesar 2021-2022
  `Program & Institution:` MS in Computer Science, KTH Royal Institute of Technology
  `Thesis:` Improving visual question answering with depth and adapting explainability
  `Role:` MS thesis supervisor (Publication *C8*)
- Aswin Gururaj Prakash 2022
  `Program & Institution:` MS in Computer Science, Georgia Institute of Technology
  `Project:` Fusing semantic object understanding to the robot's semantic mapping
  `Role:` Project co-supervisor
- Jiaming Huang 2022
  `Program & Institution:` MS in Computer Science, KTH Royal Institute of Technology
  `Project:` Concise unambiguous referring expression generation to handle uncertain requests
  `Role:` Robotics project course supervisor
- Shipra Jain 2019
  `Program & Institution:` MS in Computer Science, KTH Royal Institute of Technology
  `Project:` Referring Expression generation for human-robot interaction
  `Role:` Robotics project course supervisor

BS Students

- Rahma Elsheikh (visiting student at Cambridge) 2024-present
  `Program & Home Institution:` BS in Math & Computer Science, Princeton University
  `Thesis:` Approaching Equalized Odds by Actively Forgetting in Deep-Learning Models
  `Role`: Senior thesis supervisor
- Kajal Patel (visiting student at Cambridge) 2025-present
  `Program & Home Institution:` BS in CS, University of Illinois at Urbana-Champaign
  `Project:` Explanation generation for inter-model communication of generative models
  `Role:` Project supervisor
- Yuval Weiss 2025-present
  `Program & Institution:` BS in Computer Science, University of Cambridge
  `Project:` Bias detection for inter-model communication of generative models
  `Role:` Affective AI course project supervisor
- Yasaswi Malladi 2025-present
  `Program & Institution:` BS in Computer Science, University of Cambridge
  `Project:` Generating animation of MannersDB+ scenes in Unity
  `Role:` Project supervisor
- Lara Horne 2025
  `Program & Institution:` BS in Computer Science, University of Cambridge
  `Project:` Human activity detection and generating explanations
  `Role:` Part II project supervisor
- Sujith Sai (visiting student at Cambridge) 2025
  `Program & Home Institution:` BS in Chemical Eng., Rourkela National Institute of Tech.
  `Project:` ML methods for children's wellbeing assessment in robot-led discussions
  `Role:` Project co-supervisor
- Zeynep Altundal (visiting student at Cambridge) 2025
  `Program & Home Institution:` BS in Computer Engineering, Sabanci University
  `Project:` MannersDB+ dataset annotation examination and correction
  `Role:` Project supervisor
- Umut Ozyurt (visiting student at Cambridge) 2024
  `Program & Home Institution:` BS in Computer Engineering, Middle East Tech. University
  `Project:` Uncertainty detection for social appropriateness of robot actions
  `Role:` Project supervisor (Publication *C13*)
- Gizem Cinar (visiting student at Cambridge) 2024
  `Program & Home Institution:` BS in Psychology, Bilkent University
  `Project:` User explanation categorisation of MannersDB+ dataset
  `Role:` Project supervisor (Publication *C13*)
- Yifei Shi (Google DeepMind intern at Cambridge) 2024
  `Program & Home Institution:` BS in Computer Science, King's College London
  `Project:` End-to-end detection of interaction ruptures and Grad-CAM explanations
  `Role:` Project supervisor

Research Engineers

- Alex Sleat 2023
  `Institution:` KTH Royal Institute of Technology
  `Project:` MTurk setup for dataset collection using Matterport 3D home scan videos
  `Role:` Project supervisor
- Rasmus Rudling 2021
  `Institution:` KTH Royal Institute of Technology
  `Project:` System deployment (asking follow-up clarifications) to the Pepper robot
  `Role:` Project supervisor
- Shreya Kohli 2020
  `Institution:` KTH Royal Institute of Technology
  `Project:` Deploying Grad-CAM explainability activations to AI Habitat platform
  `Role:` Project supervisor

COMMUNITY SERVICE

Editorial Role

- Associate Editor, *IEEE ICRA*, Robot Learning Track, 2026
- Associate Editor, *IEEE Robotics and Auto. Letters (RA-L)*, HRI Track, 2025-present

Conference Organization Committee & Chairing

- Conference Chair, Oxbridge Conference, University of Oxford, 2026
- Chair of Human-Robot Interaction Session at IEEE ICRA 2025

Workshop Organisation Committee & Charing

- Robotics and Embodied Intelligence Workshop, CHIA, University of Cambridge, 2025
- Workshop on Expl. in Human-Robot Collaboration: Real-World Concerns, HRI 2025
- Workshop on Explainability for Human-Robot Collaboration, HRI 2024
- Workshop on Semantic Scene Understanding for Human-Robot Interaction, HRI 2023
- Workshop on HRI for Explainable Robotics, RO-MAN 2023
- RSS Pioneers Workshop, Robotics: Science and Systems (RSS), 2022

Program Committee

- European Conference on Artificial Intelligence (ECAI), 2025
- International Conference on Multimodal Interaction (ICMI), 2024
- Affective Computing and Intelligent Interaction Conference (ACII), 2024
- Towards Autonomous Robotic Systems Conference (TAROS), 2021
- SpLU-RoboNLP Workshop, 2021 and 2023

Journal Article Referee

- Frontiers in Robotics and AI
- IEEE Robotics and Automation Letters (RA-L)
- Autonomous Robots (AURO)
- User Modeling and User-Adapted Interaction (UMUAI)

Conference Paper Referee

- Robotics: Science and Systems (RSS)
- Conference on Robot Learning (CoRL)
- IEEE International Conference on Robotics and Automation (ICRA)
- ACM/IEEE International Conference on Human-Robot Interaction (HRI)
- IEEE International Conference on Intelligent Robots and Systems (IROS)
- IEEE/CVF Winter Conference on Applications of Computer Vision (WACV)
- ACM International Conference on Multimedia (ACMMM)
- ACM International Conference on Multimodal Interaction (ICMI)
- IEEE International Conf. on Robot & Human Interactive Communication (RO-MAN)
- IEEE Signal Processing and Communication Application Conference (SIU)
- Turkey Robotics Conference (ToRK)

Student Volunteer

- ACM/IEEE International Conference on Human-Robot Interaction (HRI), 2022
- Int. Conf. on Autonomous Agents and Multiagent Systems (AAMAS), 2018

SELECTED OUTREACH

- Featured in **BBC Click by Spencer Kelly** for his 1000th and final episode, 2025
- **Human Machine Interaction Research Showcase**, University of Cambridge, 2025
- Sutton Trust Summer School Lecture, University of Cambridge, 2025
- Physics at Work Exhibition, University of Cambridge, 2025
- HE+ Hampshire Lecture, Trinity Hall, University of Cambridge 2025
- Trinity Hall Science Open Day, University of Cambridge 2025
- **Swedish Foundation for Strategic Research (SSF)**, 2023
- KTH School of Electrical Engineering and Computer Science Lab Tours, 2023
- Atlanta Science Festival, Georgia Tech Science and Engineering Day, 2022
- Featured in a documentary on **Sveriges Television (SVT)**, 2020
- **Sweden's Minister for Higher Edu. and Research (Matilda Ernkrans)**, 2019

- Robots Exhibition at the **Swedish Tekniska Museum**, 2019
- Giants event for female and non-binary high school students, 2018
- **Live broadcast on national TV (Kanal B)** on image processing and AI, 2017
- European Researchers' Night event for high school students, 2016

EXTRA-CURRICULAR

- Member of the Dept. Research Staff Forum, University of Cambridge (2024-present)
- Theater (played in private theatres for 8 years and 5 plays)
- Computer Engineers' Association board member, 2016-2018
- Student Delegate Committee member at Middle East Technical University, 2010-2011