








# Alireza M. Kamelabad

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## Education

### Ph.D. in Computer Science

KTH Royal Institute of Technology

2021 →  Now

Stockholm, Sweden

- **Thesis:** "Language Development in the Digital Age"

**Supervisor:** Prof. Gabriel Skantze,  
Olov Engwall

- Member of the doctoral chapter of the student union (Dr.THS)

### M.Sc. in Cognitive Science (Language and Multimodal Interaction)

University of Trento, (Center for Mind/Brain Sciences)

2018 → 2020

Rovereto, Italy

- **Thesis:** "Computational Models of Lexical Acquisition: Predicting the Age of Acquisition of Different Grammatical Classes"

**Supervisor:** Dr. Aurelie Herbelot,  
Dr. Afra Alishahi

### M.A. in Human-computer Interaction

University of Trento

2017 → 2018

Trento, Italy

### B.Sc. in Computer Science

Shahid Beheshti University- Yazd University

2011 → 2017

Tehran & Yazd, Iran

- **Thesis:** "Systems and Methods of Multi-threading in Android Operating System"

**Supervisor:** Dr. Mahmoud Fazlali

- President of the Students' Computer Science Scientific Association


2012 → 2014

## Skills

### Languages

Native: Persian, Azerbaijani | Fluent: Italian, English | Elementary: Swedish, Russian

### Programming

- Python: Pandas, SciPy, PyTorch, TensorFlow
- Statistics: 
- Other: Kotlin (FurhatOS)

### Tools

- Git/GitLab, Visual Studio Code, L<sup>A</sup>T<sub>E</sub>X
- Annotations: ELAN

### Research

- Experimental Design, Data Collection, Data Analysis, Statistics, Machine Learning

### Soft Skills

- Project Management, Teamwork, Research, Presentation, Teaching.

## Work Experience & Teaching

### KTH Royal Institute of Technology | Doctoral Researcher

2021 →  Now

#### - Teaching

- (DD2417) Language Engineering 7.5 credits – *Instructor:* Dr. Johan Boye
- (DT2140) Multimodal Interaction and Interfaces 7.5 credits – *Instructor:* Dr. Gabriel Skantze

Spring 2023  
Fall 2021, 2022

#### - Supervision

- Mikael Törnwall, M.Sc. (KTH): "Contextual short-term memory for LLM-based chatbot" 2023
- Beatrice Turano, M.Sc. (University of Trento):  
"Learning Language with Chatbots in the Era of Large Language Models: A Pilot Study" 2023
- Bachelor's Thesis Students: Gustav Engelman (University of Freiburg, 2023), Erik Lekman and Antonia Drevenlid (KTH, 2022 → 2023)

#### - Departmental Duties & Commission of Trust

- Representative in the school of Electrical Engineering and Computer Science (EECS) PhD Council 2022 - 2024
- Doctoral representative of TMH in the Computer Science Doctoral Program Council. 2022 - 2024

<ul style="list-style-type: none"> <li>• TMH division's website webmaster (kth.se/is/tmh)</li> </ul>	Since 2023
<b>Furhat Robotics</b>   Associate Researcher	11.2020 → 04.2021
- Research on Multimodal Language Learning	
<b>Tilburg University</b>   Research Assistant/Intern	10.2019 → 08.2020
<ul style="list-style-type: none"> <li>• Research on Computational Modeling of Language Acquisition [Gelderloos et al., 2020]</li> <li>• Teacher Assistant for "Programming with Python" Course</li> </ul>	
<b>Shahid Beheshti University</b>   Teacher Assistant	2014 → 2016
- Teaching	
<ul style="list-style-type: none"> <li>• Digital Design 8.0 ECTS – Instructors: Dr. Mahmoud Fazlali</li> <li>• Computer Architecture 8.0 ECTS</li> </ul>	Spring 2014, 2015 Fall 2016

## Societies & Community Services

<b>Institute of Electrical and Electronics Engineers (IEEE)</b>   Member	2023
- Robotics and Automation Society	
<ul style="list-style-type: none"> <li>• Reviewer at "IEEE Robotics and Automation Letters"</li> </ul>	
- Young Professionals	
<b>Association for Computing Machinery (ACM)</b>   Member	2022
<b>Cognitive Science Society (CSS)</b>   Member	2020
<b>Rays for Excellence</b>   Mentor	2021

## Publications

Lieke Gelderloos, **Alireza M. Kamelabad**, and Afra Alishahi. Active Word Learning through Self-supervision. In *Proceedings for the 42nd Annual Meeting of the Cognitive Science Society*, pages 1050–1056. Cognitive Science Society, 2020. URL <https://cognitivesciencesociety.org/cogsci20/papers/0183/index.html>.

**Alireza M. Kamelabad** and Gabriel Skantze. I learn better alone! collaborative and individual word learning with a child and adult robot. In *Proceedings of the 2023 ACM/IEEE International Conference on Human-Robot Interaction, HRI '23*, page 368–377, New York, NY, USA, 2023. Association for Computing Machinery. ISBN 9781450399647. doi: 10.1145/3568162.3577004. URL <https://doi.org/10.1145/3568162.3577004>.

## Talks, Awards, & Participation

### Talks

<b>Oral Paper Presentation</b>   18 <sup>th</sup> Annual ACM/IEEE International Conference on Human Robot Interaction	2023
<b>M. Kamelabad</b> and Skantze [2023]	
<b>Poster Presentation</b>   4 <sup>th</sup> International Summer School on Human-robot Interaction	2023
<b>M. Kamelabad</b> and Skantze [2023]	

### Grants (221,993 €) & Awards

<b>Digital Futures Demonstrator Project Grant: Empowering Cultural Integration and Language Learning through Conversational AI (2M SEK ≈ 175,200 €)</b>   Digital Futures	2024 → 2026
<b>Master Program Merit-based Full Scholarship (25,760 €)</b>   University of Trento	2018 → 2020
For M.Sc. in Cognitive Science, Monthly Stipend, Tutition Fee Waiver, and Accommodation	
<b>Thesis Research Abroad Scholarship (900 €)</b>   University of Trento	04. → 07.2020
For M.Sc. Thesis Research at Tilburg University, Monthly Stipend	
<b>Erasmus+ Traineeship Scholarship (4,800 €)</b>   European Union	2019 → 2020
Intership at Tilburg University, Monthly Stipend	
<b>Master Program Merit-based Scholarship (15,360 €)</b>   University of Trento	2017 → 2018
For M.A. in Human-computer Interaction, Tutition Fee Waiver and Accommodation	