Eran Raveh

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EDUCATION

Ph.D. in Language Science and Technology *(magna cum laude)* — 2016 – 2020
Universität des Saarlandes — *Saarbrücken, Germany*

- **Topic**: Vocal Accommodation in Human-Computer Interaction: Modeling and Integration into Spoken Dialogue Systems
- Integrated M.Sc. in Speech Technology

B.A. in Computational Linguistics *(GPA: 93; ECTS: 1,4)* — 2012 – 2015
Eberhard Karls Universität Tübingen — *Tübingen, Germany*

- **Thesis**: Automatic Generation of Customizable Recall Questions
- **Projects**: Continuous lexical formality analysis, stimuli discrimination in speech, music & language
- Visiting student at Trinity College Dublin

EXPERIENCE

Senior Software Engineer — 2020 – Present
Hyro AI — *Tel Aviv, Israel*

- Defining processes for designing, developing, and delivering software components and new features for a conversation AI platform
- Facing customers to identify opportunities and technical gaps
- Specifying and implementing tools for customer journey analysis

Speech Scientist Intern — 2020
Fraunhofer IIS — *Erlangen, Germany*

- Designing and implementing phoneme-based processing for the neural multilingual Tacotron-based text-to-speech component of a voice assistant
- Leading UX surveys and experiments to identify gaps in useability and user satisfaction

Researcher — 2016 – 2019
Multimodal Computing and Interaction — *Saarbrücken, Germany*

- Developing spoken dialogue systems and human-computer interaction applications for public demonstrations and proof-of-concept research
- Investigating new solutions and approaches for using state-of-the-art conversational AI technologies in every-day applications

Language Engineer Intern — 2014 – 2015
Voysis — *Dublin, Ireland*

- Specifying and developing analysis and visualization processes for text-to-speech platforms
- Creating NLP resources and algorithms for multilingual speech synthesis

Automation Engineer — 2010 – 2012
GE Healthcare — *Haifa, Israel*

- Implementing automation processes for software testing and specifications management
- Contact person for national and global teams

COMMUNITY

YRRSDS (SIGdial satellite): chair (2018-2019), co-local organizer (2017)
Reviewer: EMNLP 2021, COLING 2020, SpeCom 2020, LREC 2020, Interspeech 2019

SKILLS AND QUALIFICATIONS

Programming Languages	<u>Proficient</u>: Python, Java, R <u>Familiar with</u>: Groovy, JavaScript, SQL, VB, DOS-batch
Tools & Frameworks	PyTorch, DialogFlow, OpenDial, NLTK, CoreNLP, Praat Docker, Git, Gradle, LaTeX

ISTQB Software Testing Certification from ITCB Foundation

LANGUAGES

Hebrew	Native	**English**	Fluent	**German**	Advanced (C1)
Arabic	Intermediate (B1)	**Japanese**	Beginner (A2)		

SELECTED PUBLICATIONS

[1] I. Gessinger, B. Möbius, B. Andreeva, **Raveh, Eran**, and I. Steiner, "Phonetic accommodation of L2 german speakers to the virtual language learning tutor Mirabella," in *Interspeech*, **Best Student Paper Award**, Shanghai, China, Oct. 2020. DOI: 10.21437/Interspeech.2020-2701.

[2] **Raveh, Eran**, I. Siegert, I. Steiner, I. Gessinger, and B. Möbius, "Three's a crowd? Effects of a second human on vocal accommodation with a voice assistant," in *Interspeech*, Graz, Austria, Sep. 2019, pp. 4005–4009. DOI: 10.21437/Interspeech.2019-1825.

[3] **Raveh, Eran**, "Modeling phonetic accommodation for spoken dialogue systems," in *SPCC*, **2nd Best Paper Award**, Heraklion, Greece, Jul. 2019.

[4] **Raveh, Eran**, I. Steiner, I. Siegert, I. Gessinger, and B. Möbius, "Comparing phonetic changes in computer-directed and human-directed speech," in *Electronic Speech Signal Processing (ESSV)*, **Best Student Paper Award**, Dresden, Germany, Mar. 2019, pp. 42–49. DOI: 10.22028/D291-31943.

[5] **Raveh, Eran**, I. Steiner, I. Gessinger, and B. Möbius, "Studying mutual phonetic influence with a web-based spoken dialogue system," in *Speech and Computer (Specom)*, ser. Lecture Notes in Artificial Intelligence, A. Karpov, O. Jokisch, and R. Potapova, Eds., vol. 11096, Springer, Sep. 19, 2018, pp. 552–562. DOI: 10.1007/978-3-319-99579-3_57. arXiv: 1809.04945. [Online]. Available: https://arxiv.org/abs/1809.04945.

[6] **Raveh, Eran**, I. Steiner, and B. Möbius, "A computational model for phonetically responsive spoken dialogue systems," in *Interspeech*, Stockholm, Sweden, Aug. 22, 2017, pp. 884–888. DOI: 10.21437/Interspeech.2017-1042.