

Yael Segal

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Website | GitHub

RESEARCH INTEREST

Machine learning; Deep learning; Speech synthesis and Speech Processing

EDUCATION

- **continue PhD. in Computer Science, Majoring in AI and Machine Learning Technion–Israel Institute of Technology, Israel.** 2022 - Present
Dissertation: Deep learning algorithms for prediction and localization of speech objects.
Advisor: Prof. Joseph Keshet.
- **PhD. in Computer Science, Majoring in AI and Machine Learning Bar-Ilan University, Ramat-Gan, Israel.** 2019 - 2022
Dissertation: Deep learning algorithms for prediction and localization of speech objects.
Advisor: Prof. Joseph Keshet.
- **M.S. in Computer Science, Majoring in AI and Machine Learning Bar-Ilan University, Ramat-Gan, Israel.** 2017 - 2019
Advisor: Prof. Joseph Keshet.
CGPA: 94 (Magna Cum Laude)
- **B.Sc in Computer Science with Exact sciences courses Jerusalem College of Technology, Jerusalem, Israel.** 2012 - 2015
CGPA: 97 (Summa Cum Laude)

PUBLICATIONS

- **Yael Segal**, Kasia Hitczenko, Matthew Goldrick, Adam Buchwald, Angela Roberts and Joseph Keshet, “DDKtor: Automatic diadochokinetic speech analysis,” Conference of International Speech Communication Association (Interspeech) 2022.
- Bronya R. Chernyak*, Talia Ben Simon*, **Yael Segal***, Jeremy Steffman, Eleanor Chodroff, Jennifer S. Cole, and Joseph Keshet. “DeepFry: Identifying Vocal Fry Using Deep Neural Networks.” Conference of International Speech Communication Association (Interspeech) 2022.
- **Yael Segal**, May Arama-Chayoth, and Joseph Keshet, “Pitch Estimation by Multiple Octave Decoders,” IEEE Signal Processing Letters, vol. 28, pp.1610-1614, 2021.
- Tzeviya Sylvia Fuchs*, **Yael Segal***, and Joseph Keshet, “CNN-based Spoken Term Detection and Localization without Dynamic Programming,” International Conference on Acoustics, Speech and Signal Processing (ICASSP). IEEE, 2021.
- **Yael Segal***, Tzeviya Sylvia Fuchs*, and Joseph Keshet, “SpeechYOLO: Detection and Localization of Speech Objects,” Conference of International Speech Communication Association (Interspeech) 2019.

ACADEMIC HONORS AND AWARDS

- Shulamit Aloni fellowship, Ministry of Science & Technology, Israel (Ph.D.). 4 years
- Rector’s Award for Excellence in Academic Studies, Bar-Ilan University (Ph.D.). 2020
- Excellence Scholarship, Jerusalem College of Technology (B.Sc.). 2013 - 2015

WORK EXPERIENCE

- Teaching Assistant at Bar-Ilan University.** 2021 - 2022
Teaching Assistant, Introduction to Machine Learning.
- Research Intern, MSWW team, Amazon, Boston.** 2021
Working on zero-shot detection of custom wakewords.
- Full stack developer, The Research Software Company, Israel.** 2017 - 2019
The Work requires self-learning, self-management and systems design.
Experienced with: C++, python and C#
- Full stack developer, Operative, Israel.** 2015 - 2017
The Work required daily international working relations, orientation in millions of lines of code,
and a deep understanding of the different system modules.
Experienced with: C++ and sql