

# Yael Segal

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Website | GitHub

## RESEARCH INTEREST

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*Machine learning; Deep learning; Speech synthesis and Speech Processing*

## EDUCATION

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- **PhD. in Computer Science, Majoring in AI and Machine Learning**  
**Bar-Ilan University, Ramat-Gan, Israel.** 2019 - Present  
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: 94.0
- **B.Sc in Computer Science with Exact sciences courses**  
**Jerusalem College of Technology, Jerusalem, Israel.** 2012 - 2015  
CGPA: 97 (Magna Cum Laude)

## PUBLICATIONS

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- **Yael Segal**, Kasia Hitzenko, Matthew Goldrick, Adam Buchwald, Angela Roberts and Joseph Keshet, "DDKtor: Automatic diadochokinetic speech analysis," IEEE Signal Processing Letters, 2022 (under review).
- **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

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- 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

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- 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