Yael Segal – Curriculum Vitae

PERSONAL INFORMATION

Email sgl.yael@gmail.com

Phone 054-3516865

RESEARCH INTERESTS

Machine Learning; Speech Analysis; Speech Processing.

EDUCATION

2019-present **PhD. in Computer Science**, Majoring in AI and Machine Learning
Bar-Ilan University, Ramat-Gan, Israel.
Advisor: Prof. Joseph Keshet

2017-2019 **M.S. in Computer Science**, Majoring in AI and Machine Learning
Bar-Ilan University, Ramat-Gan, Israel.
Advisor: Prof. Joseph Keshet
Thesis: **Deep learning algorithms for prediction and localization of speech objects.**

- Average 94

2012-2015 **B.Sc in Computer Science** with Exact sciences courses, Jerusalem College of Technology, Jerusalem, Israel.

- Average 97 (with honors)

AWARDS AND SCHOLARSHIPS

2020 Rector′s Award for Excellence in Academic Studies - Bar-Ilan University (Ph.D.).

2013-2015 Excellence Scholarship from Jerusalem College of Technology (B.Sc.).

PUBLICATIONS

2021 **Yael Segal**, May Arama-Chayoth, and Joseph Keshet. **Pitch Estimation by Multiple Octave Decoders**, IEEE Signal Processing Letters, 2021 (under submission).

2021 Tzeviya Sylvia Fuchs, **Yael Segal**, and Joseph Keshet. **CNN-based Spoken Term Detection and Localization without Dynamic Programming** (ICASSP 2021).

2019 **Yael Segal**, Tzeviya Sylvia Fuchs, and Joseph Keshet. **SpeechYOLO: Detection and Localization of Speech Objects**. Conference of International Speech Communication Association (*Interspeech 2019)*.

WORK EXPERIENCE

2017-2019 Full stack developer, The Research Software Company, Israel.
The Work requires self-learning, self-management and system design.
programming languages: C++, python and C#.

2015-2017 Full stack developer, Operative, Israel. The Work required international working relations on a daily basis, orientation in millions of lines of code and understanding the different modules of the system. programming languages: C++ and sql.

TEACHING

2021 Teaching Assistant, Bar-Ilan University. Introduction to Machine Learning.

PROJECTS

2019 **Automatic Measurement of Mid-Word Stop Consonants,** an algorithm for measuring the landmarks of stop consonants that appear in the middle of a word. The algorithm measures voicing, closure and burst (voice onset time - VOT) using recurrent neural networks.