

# ***Curriculum Vitae***

## **Abraham (Avrahami) Israeli**

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Online profiles: [Google Scholar](#), [LinkedIn Profile](#)

Website: <https://abrahami.github.io/>

### **Education**

- 2018-Now** Ph.D. candidate in computational social science. Software and Information Systems Engineering (SISE), Ben Gurion University of the Negev.  
Supervisor: Dr. Oren Tsur.  
Dissertation Title: Multimodal Approaches for Modeling the Dynamics of Online Communities.
- 2015-2018** MSc in machine learning and data science. Software and Information Systems Engineering (SISE), Ben Gurion University of the Negev.  
Supervisors: Prof. Lior Rokach and Prof. Asaf Shabtai.  
Average grade: 93.9; Thesis grade: 94; Summa cum Laude.
- 2007-2011** BSc in Industrial Engineering & Mgmt and BA in Economics.  
Affiliation: Technion, Israel Institute of Technology, Haifa, Israel.  
Average grade: 92.4; Summa cum laude.

### **Professional Experience**

- 2020-Now** **Research Fellow**, [The Data Science Institute \(DSI\)](#); Reichman University, Israel.  
Leading all NLP and social-media research projects. Projects are geared towards applicable solutions, with solid academic orientation, and typically consist of 6-10 researchers.
- 2018-2020** **Senior Data Scientist**, Advanced Analytics, Intel.  
Responsible for developing NLP-based algorithms, including deployment to the production of sales and marketing applications.
- 2016-2018** **Senior Data Scientist Manager**, Advanced Analytics, Intel.  
Responsible for the whole data science activity in the group, including production deployments of machine learning solutions. Direct manager of 6-7 data scientists.

- 2012-2016 **Data Scientist**, Advanced Analytics, Intel.  
Developing machine learning solutions. Primarily applying regression and classification algorithms. Responsible for the education sessions in the field of artificial intelligence.
- 2010-2012 **Research Assistant**, IBM Labs, Haifa, Israel.  
Working on a water consumption prediction project for the IBM 'Smart Planet' initiative. Responsible for developing regression prediction models.

## Academic Professional Activities

### Invited talks

- *"Complex Modeling of Online Communities"*; the Hebrew University Business School research seminar (Israel, May 2023.)
- *"Complex Representations of Online Communities"*; The SISE Data Science seminar, Ben-Gurion University of the Negev (Israel, November 2022.)
- *"This Must Be the Place: Predicting Engagement of Online Communities in a Large-scale Distributed Campaign"*; The AI Data Science Summit (Israel, May 2022.)
- *"Data Understanding and Data Pre-Processing for Machine Learning"*; The "Israeli Tech Challenge" (seven times, 2015-2021.)
- *"Osprey: Weak Supervision of Imbalanced Problems without Code"*; DMBI conference (Israel, May 2019.)
- *"Natural language processing landscape, in perspective of the mental health community"*; International Symposium on Computational Methods for Mental Health (Israel, Sep. 2019.)
- *"3COM, Compact Community Comparison"*; ISCOL\* (Israel, October 2019.)

### Posters

- *"Free Speech or Free Hate Speech? Hateful Users Detection and Analysis in Parler and Gab"*; ISCOL\* (Israel, Sep. 2021.)
- *"Predicting Engagement of Online Communities in a Large-scale Distributed Campaign"*; ISCOL\* (Israel, October 2019.)

### Program Committee

- *International Conference on Web and Social Media (ICWSM), 2018, 2020, 2023.*

\* ISCOL: Israeli Seminar on Computational Linguistics

### Honors and Awards:

- **The Israeli President's Prize** for Excellence in Science and Innovation 2020 (among 12 Ph.D. students to receive the triennial scholarship based on my Ph.D. research proposal and work.)
- **Engineering Dean's excellence list 2023** (Ph.D., 5<sup>th</sup> year.)
- **NAACL WOAHP workshop scholarship 2022** (Ph.D., 4<sup>th</sup> year.)
- **Full travel grant [EurNLP 2019](#)** (Ph.D., first year. )
- **Outstanding Teaching Assistant Award** (BSc (Technion), four times out of 4 semesters.)

- **President's list** (BSc (Technion), six times out of 8 semesters.)

## Teaching

- Spring 22-23 Head Teaching Assistant for Social Network Analysis (SNA) course (372.1.4403), Ben Gurion University.
- Winter 22-23 Lecturer for Advanced Statistics course (382.1.2201), Ben-Gurion University.
- Spring 21-22 Head Teaching Assistant for Advanced Machine Learning course (3603), Reichman University.
- Winter 21-22 Lecturer for Advanced Statistics course (382.1.2201), Ben-Gurion University.
- Spring 20-21 Head Teaching Assistant for Advanced Machine Learning course (3603), Reichman University.
- Spring 20-21 Head Teaching Assistant for Statistics course (372.1.3071), Ben-Gurion University.
- Winter 20-21 Head Teaching Assistant for Social Network Analysis (SNA) course (372.1.4403), Ben Gurion University.
- Spring 19-20 Head Teaching Assistant for Advanced Machine Learning course (3603), Reichman University.
- Spring 19-20 Lecturer for Statistics course (372.1.3071), Ben-Gurion University.
- Spring 11-12 Head Teaching Assistant for Methods in Data Mining (096411), Technion.
- Spring 10-11 Teaching Assistant for Probability (094411), Technion.
- Winter 10-11 Teaching Assistant for Stochastic Models (094314), Technion.
- Spring 09-10 Teaching Assistant for Probability (094411), Technion.

## Publications

*With Flying Colors: Predicting Community Success in Large-scale Collaborative Campaigns*

**Israeli, Abraham**, and Oren Tsur

Accepted for the International AAAI Conference on Web and Social Media (ICWSM) 2024

*This Must Be the Place: Predicting Engagement of Online Communities in a Large-scale Distributed Campaign*

**Israeli, Abraham**, Alexander Kremiansky, and Oren Tsur

In Proceedings of the ACM Web Conference 2022 (pp. 1673-1684)

*Unsupervised Discovery of Non-Trivial Similarities Between Online Communities*

**Israeli, Abraham**, Shani Cohen, Oren Tsur

Expert Systems with Applications 206 (2022): 117900

*Free speech or Free Hate Speech? Analyzing the Proliferation of Hate Speech in Parler*

**Israeli, Abraham**, and Oren Tsur

In Proceedings of the Sixth Workshop on Online Abuse and Harms (WOAH), pp. 109-121. 2022

*Love Me, Love Me Not: Human-Directed Sentiment Analysis in Arabic*

**Israeli, Abraham**, Aviv Naaman, Yotam Nahum, Razan Assi, Shai Fine, and Kfir Bar

Proceedings of the Third International Workshop on NLP Solutions for Under Resourced Languages (NSURL 2022) co-located with ICNLSP 2022

*The IDC System for Sentiment Classification and Sarcasm Detection in Arabic*

**Israeli, Abraham**, Yotam Nahum, Shai Fine, and Kfir Bar

Proceedings of the Sixth Arabic Natural Language Processing Workshop, pp. 370-375. 2021

*Constraint learning based gradient boosting trees*

**Israeli, Abraham**, Lior Rokach, and Asaf Shabtai

Expert Systems with Applications 128 (2019): 287-300

*Osprey: Weak supervision of imbalanced extraction problems without code*

Bringer, Eran, **Abraham Israeli**, Yoav Shoham, Alex Ratner, and Christopher Ré

Proceedings of the 3rd International Workshop on Data Management for End-to-End Machine Learning. 2019

## **Military Service**

### 2001-2005:

First Lieutenant in the Maglan Special Forces Unit, IDF.

Commander of two combat teams.

### Recognitions:

- Outstanding cadet, Officers training, 2003.
- Outstanding Officer award, 2005.

### 2007-2022:

Reserve duties. Current rank: Major.

## **Languages**

- Hebrew (native)
- English (fluent)
- French (basic)

## **Other Noteworthy Activities and Skills**

Hobbies: Hiking, Trekking, running, basketball, carpentry.

Marathon runner, Tel Aviv 2014