

Curriculum Vitae

Abraham (Avrahami) Israeli

+972-52-3469880

isabrah@post.bgu.ac.il

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

Education

- 2018-2023** 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: Complex Modeling 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. Mostly 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., 5th year.)
- **NAACL WOAHS workshop scholarship 2022** (Ph.D., 4th 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

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

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

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

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

Accepted to NSURL. To be published on June 2023.

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

Israeli, Abraham, and Oren Tsur

* In an R&R process, ICWSM 2024

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