

# Ela Fallik

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## Education

### Ph.D. Candidate in Computer Science, the Hebrew University of Jerusalem (HUJI)

Under the supervision of Prof. Nir Friedman

Since 2022

### M.Sc. in Computer Science, HUJI

Thesis title: Cell-Type Decomposition with Component Variation using VarNMF

Final grade: 97.1

2020 - 2022

### B.Sc. in Computer Science and Mathematics, HUJI

Final grades: CS - 96.0, Math - 93.8

2016 - 2019

## Experience

### Presentation on Cell-Type Decomposition with Component Variation

PRESENTATION AT FISEB/ILANIT2023, BIG DATA IN HEALTH AND DISEASE

Feb 2023

### Probabilistic Methods in Artificial Intelligence course, HUJI

TEACHING ASSISTANT

- Developing new teaching materials for an advanced machine learning course
- Leading class discussions and recitations

Since 2021

### Prof. Nir Friedman's lab for computational biology, HUJI

GRADUATE STUDENT

- Developing advanced models for biological systems
- Analysing high-throughput data from liquid biopsies
- Mentoring undergraduate students in lab projects

Since 2020

### Computer Cons. Workshop: From Nand to Tetris course, HUJI

TEACHING ASSISTANT

2020, Since 2022

### Prof. Tommy Kaplan's lab for computational biology, HUJI

UNDERGRADUATE LAB PROJECT

- Detection of replication origins in individual cells using Nanopore sequencing

2019

### Atidim Program, HUJI

COMPUTER SCIENCE AND MATH TUTOR

- Tutoring and mentoring undergraduate students from the socioeconomic and geographical periphery

2018

## Skills

**Programming** Python, Java, C, C++

**Languages** Hebrew (native), English

**Algorithmic**

- Development of advanced algorithms for biological data
- Practical applications of graphical models
- Statistical machine learning
- Big data analysis

## Honors and Awards

Dean's Honor List, Faculty of Science, HUJI

2017, 2018, 2019, 2020

Excellence Program for B.Sc. Students, Computer Science Faculty, HUJI

2017-2019