

Nimrod Rappoport

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EDUCATION

PhD. Computer Science (direct track)

2018-Present

Tel Aviv University

Research subject: Methods for the analysis of multi-omic and single-cell data, under the joint supervision of Prof. Ron Shamir and Prof. Amos Tanay (Weizmann Institute).

MSc. Computer Science (moved to direct PhD track)

2016-2018

Tel Aviv University

Research subject: Methods for multi-omics clustering, under the supervision of Prof. Ron Shamir.

Courses GPA: 98/100. Project student for Prof. Martin Kupiec, faculty of Life Sciences: Heterochromatin inheritance in *Saccharomyces Cerevisiae* (including wet experiments).

BSc. Computer Science - *Summa Cum Laude*

2008-2011

Tel Aviv University

GPA 97/100. Studied during highschool as part of the Beno Arbel program for young excellent math students. Graduated first in class.

WORK EXPERIENCE

Software Team Leader (Officer)

2014-2016

IDF, Intelligence Corps

Leader of a team of 5-7 Python developers, developing web, network and security systems.

Software Developer

2011-2014

IDF, Intelligence Corps

Developed web, network and security systems in Python.

TEACHING

Lecturer - Workshop in Computational Analysis of Genomic Medical Data

2019-present

Tel Aviv University

A workshop for 3rd year undergraduate students. Responsibilities include developing the curriculum, giving lectures, and guiding students in projects related to analysis of genomic medical data.

Teaching Assistant - Computational Genomics

2018-present

Tel Aviv University

A course for undergraduate bioinformatics and graduate computer science students. Responsibilities include teaching in recitations, writing problem sets and grading the final exam.

Teaching Assistant - Algorithms for Big Data Analysis in Biology and Medicine

2017-2018

Tel Aviv University

A graduate course with over 60 students. Responsibilities include curriculum development, a frontal lecture, writing and grading problem sets and the final exam.

PUBLICATIONS

1. **Nimrod Rappoport***, Elad Chomsky*, Takashi Nagano, Charlie Seibert, Yaniv Lubling, Aviezer Lifshitz, Zohar Mukamel, Ron Shamir, Peter Fraser, Amos Tanay. Single cell Hi-C deconvolutes proliferation and differentiation in embryonic mesoderm, ectoderm and blood chromosome conformations. *in review*.
2. **Nimrod Rappoport**, Roy Safran, Ron Shamir. MONET: Multi-omic patient module detection by omic selection. *presented in RECOMB-CCB 2020. accepted to PLOS Computational Biology*.
3. **Nimrod Rappoport**, Ron Shamir. Inaccuracy of the log-rank approximation in cancer data analysis. *Molecular Systems Biology* 15: e8754, (2019).
4. **Nimrod Rappoport**, Ron Shamir. NEMO: Cancer subtyping by integration of partial multi-omic data. *Bioinformatics*, btz058, (2019).
5. **Nimrod Rappoport**, Ron Shamir. Multi-omic and multi-view clustering algorithms: review and cancer benchmark. *Nucleic Acids Research*, 46 (20) pp. 10546–10562, (2018).
6. Yaniv Harari, Yoav Ram, **Nimrod Rappoport**, Lilach Hadany and Martin Kupiec. Spontaneous changes in ploidy are common in yeast. *Current Biology*, 28 (6) pp. 10546–10562 (2018).

ADDITIONAL ACADEMIC ACTIVITIES AND FELLOWSHIPS

Reviewing Reviewer for Molecular BioSystems, ISMB, Scientific Reports, PLOS Computational Biology, Nucleic Acids Research, Genome Biology, Nature Machine Intelligence, Nature Communications and Bioinformatics.

Fellowships CBRC (Cancer Biology Research Center) travel fellowship, 2018. E.J. Safran Bioinformatics scholarship for Ph.D. students, 2018-present.

AWARDS

2019 - Edmond J. Safra center excellent research student prize.

2019 - The Planning and Budgeting Committee (PBC) fellowship for excellent PhD students in Data Sciences.

2016 - "Makor Haim" prize, awarded by the commander of unit 8200 to key personnel in outstanding projects.

2015 - Award for contribution to a project awarded the Israeli Defense Prize.

2014 - Team's outstanding cadet, Intelligence Corps officers course.

2011 - BSc in computer science awarded *Summa Cum Laude*.

2011 - Computer science Dean's list.

2010 - Mathematics Dean's list.

2009 - Exact sciences faculty excellence award.

SKILLS

<i>Algorithms</i>	Development of data analysis algorithms.
<i>Management</i>	Management of software development projects.
<i>Software</i>	Experienced Python developer. Knowledge of frontend web, R, Java, C, and C++ development.
<i>Languages</i>	Hebrew (mother tongue), English (fluent)