

## Anat Kira

### Applied Mathematician | Data Scientist | Algorithm Developer

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#### Technical Skills

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**Programming languages:** Python, basic knowledge of MATLAB, Java, C.

**Data Science topics:** Machine Learning Modeling (supervised and unsupervised, including Deep Learning), Model Evaluation, Model Optimization, NLP.

**Technological skills:** Git, Linux, SQL.

#### Education

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**2021-2022 Data Science and Machine Learning Program; Israel Tech Challenge (ITC)** – A ten-month training course collaborating with leading tech companies.

**2014-2018 M.Sc. Applied Mathematics;** GPA 93/100, Technion, Israel Institute of Technology

Thesis title: [“Holes in Interacting Nano Scale Systems: Models, Algorithms and Dynamics”](#)

**2010-2014 B.Sc. Mathematics – Physics;** GPA 90/100, Haifa University at Oranim College, Israel

#### Professional Experience

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**2015-2018 Research Assistant** - Department of Chemistry, Technion, Israel Institute of Technology

- Investigated the many-body dynamics of interacting electrons using Second quantization.
- Developed a computational algorithm and implemented it using MATLAB.
- Reduced computational complexity by exploiting spatial symmetries.

**2012 Teaching Assistant; “Set Theory”** - Mathematics department, Oranim College, Israel

- Prepared curriculum for the tutorials.
- Taught tutorials to a class of 30 B.Sc. students.

#### Projects

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**Data mining project** - Created SQL database by scraping the Booking.com site and enriched it with information from the weatherstack API. [https://github.com/anatkira/Data\\_mining\\_project\\_2021](https://github.com/anatkira/Data_mining_project_2021)

**NLP project** - Essay analysis using a LongFormer (transformer) and adapted name entity recognition (NER).

#### Relocation

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**2018-2021** Relocation to Upstate NY due to my spouse's postdoc.