

Boris Gorelik, Ph.D

Data science, machine learning, data visualization expert & lecturer.
Solving tough problems since 2001.

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Skills

Data science & machine learning

Timeseries analysis; Recommender systems; Anomaly detection; Fraud detection; Social network analysis; Classification and regression; Data visualization; Optimization algorithms.

Growth & engagement

What motivates people? Community dynamics; Engagement analysis

Lecturing, teaching and consulting

Data visualization; Data science

Past and Present

2020 – today

Data science consultant & lecturer

I bring extensive expertise, wide background and out of box thinking

- Machine learning proof of concept
- Production models
- Data visualization
- Training and mentoring

2020 – today, part-time

Lecturer: Data visualization; Data-based decision making

- Teaching two college courses in the Azrieli College of Engineering Jerusalem as a part of a M.Sc in software engineering program.
- Invited lectures and workshops
- Tough at the Holon Institute of Technology and Israel Tech Challenge project.

May 2014 – Jan 2020

Automattic, Inc | WordPress.com

Data scientist

Being a data scientist at Automattic means providing answers and insights to ad-hoc questions; developing algorithms and deploying working solutions to the production.

- Recommender systems.
- Anomaly detection in time series.
- Social interactions within the WordPress.com network.
- Growth and engagement analysis.
- Spam detection, churn prediction, user conversion models.
- Ongoing data analysis support for various internal teams.

Dec 2012 – May 2014

RSA, The Security Division of EMC

Principal Research Scientist, CTO Identity Protection & Verification

- Developed and utilized statistical analysis and measurement methods applied to real-life transaction records of several of top 20 banks.
- Core developer of a new unsupervised method for authentication fraud detection. In this project I co-designed the algorithm, optimized its performance and tested it on tens of millions real-life data points. The algorithm has been shown to provide excellent results with online banks, investment firms and healthcare provider data.

Jun 2012 – Feb 2013

Procognia Ltd

Head of software and bioinformatics

- Direct responsibility for data science aspects of every activity in the company.
- Project management.
- Experiment design and analysis.
- Statistical data analysis.

Jan 2009 – Feb 2013

Senior bioinformatician and data scientist

- Re-implemented and improved company's flagship bioinformatics model in extra-tight time frame.
- Was in charge with company's major machine learning project (supervised learning on noisy data).
- Originated and lead a constrain-based optimization project for integrating real-life data.

Mar 2007 – Jan 2009

Optimata Ltd

Simulation scientist and PK/PD expert

- Developed novel methods for population modeling.
- Mechanistic and statistical modeling.
- Lead two major projects from design to completion.
- Re-wrote company's Pharmacokinetic/Pharmacodynamic (PK/PD) mathematical models.

2001 – 2007

The Hebrew University of Jerusalem

Molecular docking and optimization algorithms

PhD studies in computational chemistry under the supervision of Prof. A. Goldblum.

- Development of ISE – a general purpose optimization algorithm (implemented in C++).
- Wrote a program for energy driven optimization of 3D structures, that performs better than three world's most cited programs in the field.
- Extensive experience in algorithm development, molecular modeling and

dynamics.

Education

Ph.D

The Hebrew University of Jerusalem, 2007

Direct Ph.D in computational chemistry program for excelling students. Advisor: Prof. Amiram Goldblum.

Thesis title: Predicting Protein-Ligand Interactions using Iterative Stochastic Elimination Algorithm

B.Pharm

The Hebrew University of Jerusalem, 2001