

# Teddy Lazebnik

---

## CONTACT

**E-mail:** lazebnik.teddy@gmail.com

**Website:** <http://teddylazebnik.info/>

**Phone:** +972549557212

## WORK EXPERIENCE

**DnC-Algo** 2019 — Present

Algorithm Developer

dnc-algo is an outsourcing company specialized in machine learning (deep learning), mathematical modeling, Cloud architecture, and data-driven solutions.

I am responsible for project management, algorithm development, software architecture, and business development, managing 7 professionals.

**Bar Ilan University** 2018 — Present

Teaching Assistant

Assistant teacher of the courses:

(2019) P.D.E and Introduction to linear mathematical optimization.

(2020) Numerical Analysis 1, Introduction to linear mathematical optimization and Tools for Numerical Analysis for Eng.

**Holon Institute of Technology** 2019 — Present

Lecturer and Teaching Assistant

Teaching assistant for Numerical Analysis, 2020 first semester.

Lecturing Deep Learning for Computer Vision tasks, 2020 second semester.

**Taranis** October 2018 — June 2019

AI Reseacher

Was responsible for research and developing of deep learning solutions (computer vision) in the area of agriculture using Python (TensorFlow). In addition, designed the cloud architecture (Google cloud) for the AI part of the system, facing optimizing of performance and minimization of costs.

My team's responsible was to design and develop an end to end solution using traditional ML, DL, and traditional computer vision and graph theory algorithms together. Managing 2 professionals.

**ViaeAI** 2017 — 2018

Algorithm Developer

Was responsible for developing from scratch solution for chatbots based on scripts and machine learning.

I done system design, training ML algorithms (Java & Matlab), back-end web development (JAVA). In addition, design and develop a Russian NLP engine (java) using linguistics expert and English-Russian transcripts. Managing 8 professionals.

**IDF** 2017 — 2017

Algorithm Developer

Was responsible for developing automatic data analysis tools (C#) for Human Resource Management process.

**WingSourcing** June 2016 — January 2017

Project Manager

Was responsible for collaborations which third-party companies for joint technological

developments, client's projects and financial management. In addition, build the software architecture and develop the unique algorithms of each project. Leading the development process with team of 4 developers.

## Ring Ad Ring

2014 — June 2016

### Project Manager & Algorithm developer

Responsible for providing technical solutions, effort estimations, commitments. Lead the improvement of product Quality & Performance by inserting automatic testing into release process. Leading the development process with 5 developers.

## FreeLance

2012 — 2016

### Developer

Developed websites (PHP, C#, HTML, JS), mobile application (Android, Java), several algorithms (C#, Matlab).

## EDUCATION

### Computer Science (PhD)

2018 — February 2023

#### Bar Ilan University

Studying medical nanorobotics properties from the aspect of computer science - how to reuse available nanorobotic solutions to create new clinical treatments.

### Applied Mathematics (M.Sc.)

2017 — 2018

#### Bar Ilan University

Master's thesis is a proof that matrix exponent is stable and offering a highly stable algorithm with calculation optimizations, and numerical analysis of the error in the approximation. In addition, developing a comparing model of numerical algorithms of a system of homogeneous linear ODE without a general case to check. Applications in the fields of classical physics and control systems in engineering presented.

### Applied Mathematics (B.Sc.)

2013 — 2016

#### Bar Ilan University

A final project in the field of Linear Control Systems which involving develop, prove, and optimize an algorithm for the discrete-continuous linear time measurement model, continuous part.

## ADDITIONAL RESEARCH

Researching systems of ordinary and partial differential equations (ODEs / PDEs) numerical solving and stabilization. Especially, ones originated from a biological setup.

In collaboration with Prof Bar's laboratory at Bar Ilan University, studying psychological state analysis using the associative distance between words in Hebrew with machine learning and NLP methods.

## PUBLICATIONS

### Journals

T. Lazebnik and S. Yanetz, "A stable algorithm for numerical matrix exponent", Functional Differential Equations (2016).

T. Lazebnik and S. Yanetz, S. Bunimovich-Mendrazitsky, and N. Aaroni, "Treatment of Bladder Cancer Using BCG Immunotherapy: PDE Modeling", Functional Differential Equations (2019).

### Conferences

T. Lazebnik and S. Yanetz, "A highly stable implementation for numerical matrix exponent

in Matlab and C", Functional Differential Equations Conference (2017).

T. Lazebnik, S. Yanetz, and S. Bunimovich-Mendrazitsky, "PDE Modeling of Bladder Cancer Treatment Using BCG Immunotherapy", Functional Differential Equations Conference (2019).

## Abstracts

Lazebnik and B. Ginat, "Energy Efficiency in 2d Quadratic Hamiltonian", Technion Press (2015).

T. Lazebnik, H Weitman, and G.A. Kaminka, "Rivendell: Project-Based Academic Search Engine", Bar Ilan Nanotechnology and Advanced Materials (2018).  
**Submitted**

Lazebnik, H Weitman, Y. Goldberg, and G. Kaminka, "Rivendell: Project-Based Academic Search Engine".

## Consulted

Noam Kolt, "Return on Data", Yale Law and Policy Review (2019).