TEDDY LAZEBNIK

Last update: 04.11.2026

PROFESSIONAL SUMMARY

Applied Computational Mathematics researcher and AI developer in the fields of epidemiology, medicine, economics, and information systems. A decade and a half of experience in software development in the industry, including a decade of experience as an algorithm developer with a focus on data-driven algorithms for bio-medical and financial tasks.

ACADEMIC EMPLOYMENT

Jonkoping University, Department of Computing September 2025 - Current
Assistant Professor

- Lecturing Introduction to Databases (Bachelor's degree).
- Lecturing Introduction to Reinforcement Learning (Master's degree) - my own course.

University of Haifa, Department of Information Systems October 2025 - Current
Assistant Professor

- Lecturing Data Structure and Algorithms (Bachelor's degree).
- Lecturing Introduction to Linear Algebra (Bachelor's degree).
- Lecturing Introduction to Reinforcement Learning (Master's degree) - my own course.

Ariel University, Department of Mathematics October 2023 - September 2025
Assistant Professor

- Lecturing Calculus 1 + 2 for mathematicians (Bachelor's degree).
- Lecturing Calculus 1 for mechanical engineering (Bachelor's degree).
- Lecturing Topology (Bachelor's degree).
- Lecturing Introduction to Reinforcement Learning (Bachelor's degree) - my own course.

Bar Ilan University October 2023 - September 2025
Teaching Associate

- Introduction for cybersecurity for managers (Bachelor's degree).
- Digital transformation (Bachelor's degree).

Reichman University, Department of Computer Science Feb 2023 - July 2023
Teaching Associate

- Lecturing Operation Systems (Bachelor's degree).

Bar Ilan University, Department of Information Science and Department of Management Feb 2023 - July 2023
Teaching Associate

- Lecturing Business Intelligence (Bachelor's degree).
- Lecturing Back-end Development (Bachelor's degree).

Holon Institute of Technology, Department of Computer Science Feb 2023 - July 2023
Teaching Associate

- Lecturing "Introduction To Cybersecurity" (Bachelor's degree).
- Lecturing "The Mathematical Aspects of Cybersecurity" (Master's degree) - my own course.

University College London, Department of Cancer Biology Sep 2021 - Aug 2023
Honorary Post-doctoral researcher (Hosted by Prof Stephan Beck)

· Developed a novel artificial genomics generator using machine learning and bio-genomic models.
· Leading research in the development of personalized medicine through data-driven algorithms.

Bar-Ilan University, Department of Computer Science Jul 2020 - Jul 2021
Research And Teaching Assistant

· Teaching the following courses: Advanced Programming 1 and Advanced Programming 2 - all Bachelor's degree.
· Academic research guidance for Master computer science students' final project.
· Developed a Mathematical model & simulation of nanoparticles-based targeted drug delivery.
· Developed a novel academic search engine from scratch to tackle local concept drift in academic search.

Bar-Ilan University, Department of Mathematics Oct 2018 - Jul 2020
Research And Teaching Assistant

· Teaching the following courses: Partial differential equations (PDE), Introduction to linear mathematical optimization, Numerical Analysis 1, and Tools for Numerical Programming for Engineering - all Bachelor's degree.
· Academic research guidance and code review for Bachelor and Master computer science students' final project.

Holon Institute of Technology, Department of Mathematics Feb 2020 - Jul 2020
Lecturer

· Teaching Deep Learning for Computer Vision (Bachelor's degree).

Holon Institute of Technology, Department of Mathematics Oct 2019 - Feb 2020
Teaching Assistant

· Teaching Numerical Analysis (Bachelor's degree).

ACADEMIC EDUCATION

Ariel University 2020 - 2021
Ph.D. in (Bio)mathematics

· Thesis about "Modeling and Numerical Calculation of Pandemic Spread and Optimal Oncology Treatment Protocols" - supervised by Prof. Svetlana Bunimovich-Mendrazitsky.

Bar-Ilan University 2017 - 2018
M.Sc. in Applied Mathematics

· Thesis about "Highly Stable Numerical Algorithm for Matrix Exponent" - supervised by Dr. Shlomo Yanetz.

Bar-Ilan University 2013 - 2016
B.Sc. in Applied Mathematics

· Final project about "Observable of Discrete-continuous Linear Time Interval Systems with Continuous Time Measurement".

ACADEMIC HONORS AND AWARDS

Ariel University 2022
Ph.D. student

· A prize for academic excellence with multiple high-quality publications.

Bar-Ilan University 2017
M.Sc student

· A prize for excellence in studies and research at the master's degree in the name of David Barkovski.

STUDENTS SUPERVISION

Post-doc students

- University of Haifa & Jonkoping University, Meirav Har-Even, 2025-current.
- University of Haifa & Jonkoping University, Amit Yaniv-Rosenfeld, 2025-2026.

P.hD. students

- University of Haifa, Lee-or Aloni, 2026-current.
- University of Haifa, Inbar Kirshenboim, 2026-current (co-advisor with Prof. Nissim Cohen).
- Bar Ilan University, Gilat Rotkop, 2026-current (co-advisor with Dr. Avshalom Elmalech).
- University of Haifa, Dr. Maxim Glebov, 2025-current.
- Bar Ilan University, Ariel Alexi, 2024-current (co-advisor with Prof. Ariel Rosenfeld).
- Bar Ilan University, Amit Bengiat, 2024-current (co-advisor with Prof. Ariel Rosenfeld).
- Ariel University, Dr. Adi Shuchami, 2024-2026.
- Bar Ilan University, Dr. Assaf Shmuel, 2023-2026 (co-advisor with Dr. Oren Glickman).

M.Sc. students

- Open University of Israel, Amir Noiboar, 2025-current.
- University of Haifa, Arie Stoliarsky, 2025-current (co-advisor with Dr. Rona Aviram).
- Reichman University, Gilad Ilani, 2025-current.
- Jonköping University, Noufa Haneefa, 2026-2026 (co-advisor with Dr. Einav Peretz-Andersson).
- Jonköping University, Mahmut Osmanovic, 2026-2026.
- Jonköping University, Isac Paulsson, 2026-2026.
- Jonköping University, Simon De Reuver, 2026-2026.
- Jonköping University, Tamas Kristof Toth, 2026-2026.
- Jonköping University, Maximilian Engwall, 2026-2026.
- Jonköping University, Ivo Osterberg Nilsson, 2026-2026.
- Jonköping University, Lukas Toral, 2025-2025.
- Jonköping University, Bilge Taskin, 2025-2025.
- Jonköping University, Wenxiong Xie, 2025-2025.
- Bar Ilan University, Ariel Alexi, 2023-2024 (co-advisor with Prof. Ariel Rosenfeld).
- Tel Aviv University, Liron Simon Keren, 2021-2022 (Help to advise with Prof' Alexander Liberzon).
- University College London, Jackson Cheung, 2022 (Help to advise under the supervision of Prof' Stephan Beck).
- Ariel University, Yonatan Herskowitz, 2022-2023 (co-advisor with Prof. Svetlana Bunimovich-Mendrazitsky).

Undergraduate students

- Ariel University, Eden Aloni, 2024-2025.
- Bar Ilan University, Chen Tal-Schachar, 2018-2019 (Under the supervision of Prof' Gal A. Kaminka).
- Bar Ilan University, Pedro Nissan, 2017-2017 (Under the supervision of Prof' Gal A. Kaminka).

TEACHING COURSING

Academic courses

- Jonkoping University, Introduction to DataBases - lecturer, first degree.
- Jonkoping University, Reinforcement learning for engineering [my course] (X3) - lecturer, second degree.
- University of Haifa, Reinforcement learning [my course] (X2) - lecturer, second degree.
- University of Haifa, Introduction to Data Stractures and Algorithms - lecturer, first degree.
- University of Haifa, Introduction to Linear Algebra - lecturer, first degree.
- Ariel University, Reinforcement learning for engineering [my course] - lecturer, first degree.
- Bar Ilan University, Cybersecurity in digital transformation [my course] - lecturer, first degree

· Ariel University, Calculus 1 (X2) - lecturer, first degree.
· Ariel University, Calculus 2 (X2) - lecturer, first degree..
· Bar Ilan University, Introduction to cybersecurity for managers [my course] - lecturer, first degree.
· Ariel University, Introduction to reinforcement learning [my course] - lecturer, first degree.
· Reichman University, Operation Systems - leading lecturer, first degree.
· Holon Institute of Technology, Mathematical aspects in cybersecurity [my course] - lecturer, second degree.
· Holon Institute of Technology, Introduction to cybersecurity [my course] - lecturer, first degree.
· Bar Ilan University, Back-end development - lecturer, first degree.
· Bar Ilan University, Business Intelligence - lecturer, first degree.
· Bar Ilan University, Advanced Programming 2 - teaching assistant, first degree.
· Bar Ilan University, Advanced Programming 1 - teaching assistant, first degree.
· Bar Ilan University, Numerical Analysis (X2) - teaching assistant, first degree.
· Bar Ilan University, Introduction to Linear Mathematical Optimization and Tools for Numerical Analysis for Engineers - teaching assistant, first degree.
· Holon Institute of Technology, Deep Learning for Computer Vision tasks - teaching assistant, first degree.
· Holon Institute of Technology, Numerical Analysis - teaching assistant, first degree.
· Bar Ilan University, Introduction to Linear Mathematical Optimization - teaching assistant, first degree.
· Bar Ilan University, Partial Differential Equations - teaching assistant, first degree.

Industry courses

· Naya College, Data Science (420 hours course): Introduction to Programming in Python, Data Analysis, Introduction to Machine Learning, Introduction to Deep Learning, and Introduction to MLOps (X2).
· Y-Data, Introduction to Machine Learning.

SCIENTIFIC PUBLICATIONS

Scientific Journals

1. Y. Gargi, A. Cohen, D. Stein, O. Levi, D. Cohen, J. Klein, H. Taube, J. Vine, M. Glebov, **T. Lazebnik**, M. Saban, Y. Haviv, E. Segal, Pupillary Size and Reactivity After Single-Bolus Rocuronium in Critically Ill Adults: A Two-Cohort Self-Controlled Study. BMC Anesthesiology. 2026. [Not in website]

2. I. Osterberg Nilsson, M. Birr Engvall, V. Valadi, **T. Lazebnik**, Profiling Privacy Preservation Against Gradient Inversion Attacks in Tabular Federated Learning. International Journal of Information Security. 2026. [Not in website]

3. L-O. Alon, **T. Lazebnik**, A Spatio-Temporal Eco-Epidemiological Approach to Mosquito Control: Trading Off Human Infection Reduction and Native Fish Preservation. Chaos. 2026. [Not in website]

4. **T. Lazebnik**, A Stochastic Epidemiological Model of Latent Tuberculosis in a Radiation Exposed Mars Colony. Advanced Theory and Simulations. 2026. [Not in website]

5. D. Oren, **T. Lazebnik**, G. Martvel, D. Grinstein, Y. Michaeli, O. Elazar, Y. Cohen, A. Zamansky, Automated Facial Analysis for Working Dog Fatigue Assessment. Scientific Reports. 2026. [Not in website]

6. M. Glebov, M. Kustin, **T. Lazebnik**, et al. Early volatile anesthetic exposure patterns and risk of post-intubation hypotension: a prospective cohort study. BMC Anesthesiology. 2026. [Not in website]

7. **T. Lazebnik**, Service Preservation from Matching Non-Matching Socks Under Stochastic Loss. Humanities and Social Sciences Communications. 2026. [Not in website]

8. Y. Gargi, **T. Lazebnik**, A. Cohen, O. Levi, D. Stein, D. Cohen, J. Vine, H. M. Taube, E. Segal, Early inflammatory-marker trajectories and 90-day mortality in septic shock: a landmark analysis of CRP, WBC, NLR, and nucleated red blood cells. Critical Care Research and Practice. 2026. [Not in website]

9. S. Nemet, M. Har-Even, A. Herman Cohen, **T. Lazebnik**, E. Ganelin-Cohen, Y. Levinsky, V. Shkalim Zemer, The Association Between Allergic Disorders and Migraine in the Pediatric Population: A Nationwide Cohort Study. Pediatric Neurology. 2026. [Not in website]

10. Y. Gargi, O. Levi, D. Cohen, J. Klein, J. Vine, M. Glebov, **T. Lazebnik**, N. Levran, L. Statlender, E. Segal, A. Cohen, Hemodynamic–Inflammatory Discordance in Septic Shock: A Multicohort Landmark Analysis. Journal of Intensive Care Medicine. 2026. [Not in website]

11. L. Neal, **T. Lazebnik**, B. N. Florkiewicz, Visual signal transitioning and response latencies in platyrrhine monkeys (Pithecia pithecia and Callithrix geoffroyi). International Journal of Primatology. 2026. [Not in website]

12. N. Vardi, **T. Lazebnik**, M. Bar, Capturing Thought Dynamics: Modeling the Structure of Spontaneous Associations. Cognitive Science. 2026.

13. **T. Lazebnik**, S. Bunimovich-Mendrazitsky, A. Alexi, Modeling the Effects of Pandemics on Physiology-related Fertility Decline in Society. Frontiers in Epidemiology. 2026.

14. A. Bengiat, **T. Lazebnik**, P. Mayr, A. Rosenfeld, Bi-National Academic Funding and Collaboration Dynamics: The Case of the German-Israeli Foundation. Scientometrics. 2026.

15. A. Shuchami, **T. Lazebnik**, V. Shkalim Zemer, A. Herm Cohen, S. Ashkenazi, Shall We Repeat? Predicting The Necessity to Repeat Testing in Pediatric Emergency Departments of Laboratory Testing Previously Performed in the Community Using Machine Learning. Plos One. 2026.

16. G. Pedretti, E. Biffi, S. Normando, P. Maria Valsecchi, **T. Lazebnik**, M. Loconsole, Hearing shapes: the Bouba-Kiki effect in adult domestic dogs. Proceedings B. 2026.

17. M. Katson, **T. Lazebnik**, M. Har-Even, M. Glebov, F. Naamnih, A. Sinai, M. Nassar, M. Constantinescu, L. Lev Tov, V. Aharonson, I. Schlesinger, Less is more: Comparison of automated spiral-drawing metrics with clinician-rated tremor scores after MRgFUS thalamotomy. Frontiers in Neurology. 2026.

18. D. Cherry, B. N. Florkiewicz, **T. Lazebnik**, C. Henry, Short Communications: A Methodological Pilot Comparing Facial, Endocrine, and Observer-Based Welfare Measures in Service Dogs (Canis lupus familiaris). Veterinary and Animal Science. 2026.

19. C. Mortenfeld, **T. Lazebnik**, A. Liberzon, Physics-Informed Symbolic Regression Reveals a Delayed Oscillatory Closure for Particle–Interface Dynamics. Machine Learning: Science and Technology. 2026.

20. **T. Lazebnik**, A. Yaniv-Rosenfeld, The Family Tree Graph as a Predictor of the Family Members' Satisfaction with One Another. Frontiers in Human Dynamics. 2026.

21. B. Florkiewicz, **T. Lazebnik**, D. Cherry, C. J. Henry, Facial Color Patterns and Intraspecific Facial Signaling Complexity in Domesticated Cats (Felis silvestris catus). Applied Animal Behaviour Science. 2026.

22. **T. Lazebnik**, A Portfolio-Theoretic Algorithm for Institutional Research Planning under Scientometric Objectives. Algorithms. 2026.

23. **T. Lazebnik**, A. Freidman, Mathematical modeling of systemic sclerosis and its treatment. Bulletin of Mathematical Biology. 2026.

24. L. Shami, **T. Lazebnik**, Cooperative Game-Theoretic Framework for Sustainable UN Financing: An Application to Global Public Goods Provision. Economics. 2026.

25. Z. Ben-Zion, Z. Elyoseph, T. Spiller, **T. Lazebnik**, Inducing state anxiety in LLM agents reproduces human-like biases in consumer decision-making. npj Artificial Intelligence. 2026.

26. N. Haneefa, **T. Lazebnik**, E. Peretz-Andersson, Quality-preserving Model for Electronics Production Quality Tests Reduction. Frontiers in Mechanical Engineering. 2026.

27. A. Kleinerman, D. Benrimoh, A. Yaniv-Rosenfeld, G. Golden, M. Tanguay-Sela, H. C. Margolese, **T. Lazebnik**, B. H. Amit, H. Samuel, A. Rosenfeld, Bridging Algorithmic Prediction and Clinical Agency: An Exploratory Pilot Study of AI-Augmented Physician Antidepressant Choice. Frontiers in Psychiatry. 2026.

28. **T. Lazebnik**, A. Liberzon, Moving from Table to Graph in Physics-Informed Spatio-Temporal Symbolic Regression. Scientific Reports. 2026.

29. O. Edri-Peer, **T. Lazebnik**, N. Cohen, A Decision Tree Model for Profiling Citizens' Support for Self-Help Strategies. Deviant Behavior. 2026.

30. Y. Gargi, A. Cohen, D. Stein, O. Levi, D. Cohen, J. Klein, H. Taube, J. Vine, M. Glebov, **T. Lazebnik**, M. Saban, Y. Haviv, E. Segal, Noradrenaline Trajectory Phenotypes in Septic Shock: Derivation and External Validation in Two Independent Cohorts. Intensive Care Medicine Experimental. 2026.

31. S. Nemet, M. Har-Even, A. Herman Cohen, **T. Lazebnik**, E. Ganelin-Cohen, Y. Levinsky, V. Shkalim Zemer, Allergic Disorders and Evolving Migraine in the Pediatric Population: A Retrospective Database Study. Frontiers In Allergy. 2026.

32. Y. Gargi, N. Levran, D. Stein, O. Levi, D. Cohen, **T. Lazebnik**, J. Vine, E. Segal, A. Cohen, Pre-transition Nutrition Dose and Mortality in Critical Illness Using a Model-Derived Metabolic Transition Framework: A MIMIC-IV Analysis. Clinical Nutrition ESPEN. 2026.

33. A. Rosenfeld, **T. Lazebnik**, Whose LLM is it Anyway? Linguistic Comparison and LLM Attribution for GPT-3.5, GPT-4 and Bard. Mathematics. 2026.

34. A. Shuchami, M. Glebov, M. Katsin, H. Berkenstadt, D. Orkin, **T. Lazebnik**, Comparing Manual vs. Automated Machine Learning and Deep Learning Models for Predicting One-Year Mortality in Elderly Hip Fracture Patients. Frontiers in Medicine. 2026.

35. V. Aharonson, V. Christodoulou, C. Karpasitis, J. Joselowitz, S. Nowaczyk, **T. Lazebnik**, K. Iordanou, Audience Engagement with Climate Change Content on YouTube: An Analysis of Video Attributes and User Interactions. Frontiers in Climate. 2026.

36. A. Shmual, O. Glickman, **T. Lazebnik**, Interpretable Knowledge Distillation via Symbolic Regression for Feedforward Neural Networks. Neural Computing and Applications. 2026.

37. D. Cherry, **T. Lazebnik**, C. J. Henry, B. Florkiewicz, Playful Paws: Harnessing AI-Based Computer Vision to Evaluate Biological and Behavioral Variables in Dog-Dog Play Interactions. Journal of Veterinary Behavior. 2026.

38. Y. Gargi, L. Neriya, J. Vine, A. Cohen, D. Weiner, D. Stein, O. Levi, D. Cohen, J. Klein, H. S. Taube, M. Glebov, **T. Lazebnik**, M. Saban, S. Efrat, E. Drori, Y. Haviv, E. Segal, Detecting the metabolic transition to personalize nutritional timing: model development and preliminary validation in a large ICU cohort. Critical Care. 2026.

39. **T. Lazebnik**, A. Friedman, PDE and Agent Based Simulation Approaches to Ischemic Dermal Wound Healing. Plos One. 2026.

40. **T. Lazebnik**, V. Aharonson, Chronic Stress, Immune Suppression, and Cancer Risk: Evidence from Surveys and Predictive Models. Medical Sciences. 2026.

41. A. Shmual, **T. Lazebnik**, O. Glickman, Follow the Forest Trail: Distillation by Gradient Boosting Models to Enhance Symbolic Regression Performance. IEEE Access. 2026.

42. B. Florkiewicz, E. Kanevsky, A. Zamansky, **T. Lazebnik**, Close Encounters of the Cat Kind: The Influence of Context and Sex on Facial Signaling Proximity in Domesticated Cats (Felis silvestris catus). Journal of Veterinary Behavior. 2026.

43. **T. Lazebnik**, Transforming Norm-based To Graph-based Spatial Representation for Spatio-Temporal Epidemiological Models. Engineering Applications of Artificial Intelligence. 2026.

44. N. Cohen, **T. Lazebnik**, Y. Khalatnik, The Impact of Collective Performance-Related Pay on Street-Level Bureaucrats Performance and Clients' Outcomes. Public Performance & Management Review. 2026.

45. R. Peleg, Y. Smadar, **T. Lazebnik**, A. Hoogi. Break a Lag: Triple Exponential Moving Average for Enhanced Optimization. Machine Learning. 2026.

46. **T. Lazebnik**, L. Shami, E. Perez-Andersson, Tell Me Who Your Neighbors Are and I Will Tell You Your Informal Economy Size: The Case of Sweden. Computational Economics. 2026.

47. B. Florkiewicz, **T. Lazebnik**, Expanding the Horizons of Facial Mimicry in Chimpanzees (Pan troglodytes): New Insights into Diverse Signal Types and Contexts. Current Zoology. 2026.

48. M. Glebov, M. Katsin, H. Berkenstadt, D. Orkin, A. Yaniv-Rosenfeld, A. Shuchami, **T. Lazebnik**, Postinduction blood pressure trajectories: clustering and predictive modelling using machine learning. Scientific Reports. 2026.

49. **T. Lazebnik**, Y. Sam, J. Tichon, R. Lapid, R. King, T. Nissimian, O. Spiegel, An Empirically-parametrized Spatio-Temporal Extended-SIR Model for Combined Dilution and Vaccination Mitigation for Rabies Outbreaks in Wild Jackals. Ecological Modeling. 2026.

50. B. Taskin, W. Xie, **T. Lazebnik**, Knowledge Integration for Physics-informed Symbolic Regression Using Pre-trained Large Language Models. Scientific Reports. 2026.

51. U. Itai, A. Bar Ilan, **T. Lazebnik**, Tighten The Lasso: A Convex Hull Volume-based Anomaly Detection Method. International Journal of Data Science and Analytics. 2026.

52. **T. Lazebnik**, Introducing 'Inside' Out of Distribution. International Journal of Data Science and Analytics. 2026.

53. **T. Lazebnik**, A. Friedman, Comparing Partial Differential Equations and Agent-based Simulations in Spatio-temporal Modeling of Cancer Growth and Shape. Journal of Computational and Applied Mathematics. 2025.

54. A. Solomon, M. Glebov, **T. Lazebnik**, Explainable Surgical Procedures Recommender System Leveraging Large Language Models. ACM Transactions on Recommender Systems. 2025.

55. E. Kanevsky, **T. Lazebnik**, R. Kaspi, Y. Gazit, E. Halon, D. Fried, A. Zamansky, G. Pines, Non-Invasive Computer Vision-Based Fruit Fly Larvae Classification: Ceratitis capitata and Bactrocera zonata. Journal of Applied Entomology. 2025.

56. A. Shmual, O. Glickman, **T. Lazebnik**, A Comprehensive Benchmark of Machine and Deep Learning Across Diverse Tabular Datasets. Neurocomputing. 2025.

57. A. Shmuel, **T. Lazebnik**, E. Heifetz, O. Glickman, C. Price, Fire weather indices tailored to regional patterns outperform global models. npj Natural Hazards. 2025.

58. G. Martvel, G. Pedretti, **T. Lazebnik**, A. Zamansky, Y. Ouchi, T. Monteiro, N. Farhat, I. Shimshoni, D. Grinstein, Y. Michaeli, P. Valsecchi, N. Hall, S. Marshall-Pescini, Does the tail show when the nose knows? AI outperforms human experts at predicting detection dogs finding their target through tail kinematics. Royal Society Open Science. 2025.

59. N. Cohen, **T. Lazebnik**, Do Institutions Make Street-Level Bureaucrats Prosocial? Agent-Based Evidence Shows That New Public Management Does Not. European Policy Analysis. 2025.

60. A. Shuchami, **T. Lazebnik,** S. Ashkenazi, A. H. Cohen, Y. Reichenberg, V. Shkalim-Zemer, A Machine Learning-Based Guide for Repeated Laboratory Testing in Pediatric Emergency Departments. Diagnostics. 2025.

61. A. Rosenfeld, A. Alexi, L. Mushiev, **T. Lazebnik**, The Academic Midas Touch: An Indicator of Academic Excellence. Journal of Data and Information Science. 2025.

62. **T. Lazebnik**, S. Aviv-Reoven, A. Rosenfeld, Publishing Instincts: An Exploration-Exploitation Framework for Studying Academic Publishing Behavior and "Home Venues". Journal of Informetrics. 2025.

63. **T. Lazebnik**, Evaluating Supply Chain Resilience During Pandemic Using Agent-based Simulation. Physica A: Statistical Mechanics and its Applications. 2025.

64. O. Mokryn, **T. Lazebnik**, H. Ben Shoshan, Interpretable Transformation and Analysis of Timelines through Learning via Surprisability. Chaos. 2025.

65. A. Shuchami, **T. Lazebnik**, Spatio-Temporal SIR Model of Pandemic Spread During Warfare with Optimal Dual-use Healthcare System Administration using Deep Reinforcement Learning. Disaster Medicine and Public Health Preparedness. 2025.

66. L. Schwartz, N. Matania, M. Levi, S. **T. Lazebnik**, Kushnir, N. Yosef, A. Hoogi, D. Shlomi, Lung Cancer Risk Prediction Based on Blood-Tests and Machine Learning Model. Frontiers in Medicine. 2025.

67. N. Cohen, M. Davidovich, G. Lotta, **T. Lazebnik**, Trust and Street-Level Bureaucrats' Perceptions about Organizational Readiness for Emergencies. International Public Management Journal. 2025.

68. B. Florkiewicz, **T. Lazebnik**, Combinatorics and Complexity of Chimpanzee (Pan troglodytes) Facial Signals. Animal Cognition. 2025.

69. A. Rosenfeld, **T. Lazebnik**, How Lonely or Influential is the Lone Wolf? An Analysis of Individual Scholars' Solo-Authorship Dynamics. Scientometrics. 2025.

70. **T. Lazebnik**. Pulling the Carpet Below the Learner's Feet: Genetic Algorithm To Learn Ensemble Machine Learning Model During Concept Drift. Engineering Applications of Artificial Intelligence. 2025.

71. M. Kastin, M. Glebov, H. Berkenstadt, Yaniv-Rosenfeld, A. **T. Lazebnik**, Developing Machine Learning-based Prediction Model for Postinduction Hypotension. Journal of Clinical Monitoring and Computing. 2025.

72. A. Shmual, **T. Lazebnik**, O. Glickman, E. Heifetz, C. Price, Lightning-Ignited Wildfires On A Global Scale: Prediction and Climate Change Projections based on Explainable Machine Learning Models. Scientific reports. 2025.

73. M. Glebov, **T. Lazebnik**, M. Kastin, B. Orkin, H. Berkenstadt, S. Bunimovich-Mendrazitsky, Predicting Postoperative Nausea And Vomiting Using Machine Learning: A Model Development and Validation Study. BMC Anesthesiology. 2025.

74. B. Florkiewicz, **T. Lazebnik**, Predicting Social Rankings in Captive Chimpanzees (Pan troglodytes) through Machine Learning and Communicative Interactions. Integrative Zoology. 2025.

75. **T. Lazebnik**, A. Friedman, Spatio-Temporal Model of Combining ADT and Chemotherapy with Senolytic Treatment in Metastatic Prostate Cancer. Journal of Theoretical Biology. 2025.

76. B. Norton, A. Zamansky, B. Florkiewicz, **T. Lazebnik**, The Art of Chimpanzee Diplomacy: Unraveling the Secrets of Successful Negotiations Using AI. Journal of Comparative Psychology. 2025.

77. L. Shami, **T. Lazebnik**, Got much, got nothing: Analyzing the impact of increased special interest groups' influence on utility. Eurasian Economic Review. 2025.

78. V. Aharonson, **T. Lazebnik**, A. Sinai, M. Nassar, I. Senderova, M. Constantinescu, L. T. Lior, I. Schlesinger, Novel objective tool to assess tremor reveals unilateral focused ultrasound improves tremor bilaterally. Neurology and Therapy. 2025.

79. **T. Lazebnik**, A. Friedman, Spatio-Temporal Model of Combining Chemotherapy with Senolytic Treatment in Lung Cancer. Mathematical Biosciences. 2025.

80. A. Shmual, O. Glickman, **T. Lazebnik**, Machine and Deep Learning Performance in Out-of-Distribution Regressions. Machine Learning: Science and Technology. 2024.

81. G. Martvel, **T. Lazebnik**, M. Feighelstein, S. Meller, I. Shimshoni, L. Finka, S. Luna, D. Mills, H. A. Volk, A. Zamansky. Automated Landmark-Based Cat Facial Analysis and its Applications. Frontiers in Veterinary Science. 2024.

82. G. Martvel, L. Scott, B. Florkiewicz, A. Zamansky, I. Shimshoni, **T. Lazebnik**, AI for Feline Faces: A Computational Investigation of the Social Function of Domestic Cat Facial Signals. Scientific Reports. 2024.

83. **T. Lazebnik**, O. Speigel, Individual Variation Affects Outbreak Magnitude and Predictability in Multi-Pathogen Model of Pigeons Vising Dairy Farms. Ecological modeling. 2024.

84. G. Martvel, **T. Lazebnik**, M. Feighelstein, L. Henze, S. Meller, I. Shimshoni, F. Twele, A. Schütter, N. Dorn, S. Kastner, L. Finka, S. P. L. Luna, D. S. Mills, H. A. Volk, A. Zamansky, Automated Video-Based Pain Recognition in Cats using Facial Landmarks. Scientific Reports. 2024.

85. **T. Lazebnik**, L. Shami, A. Rosenfeld, Economical-Epidemiological Analysis of the Coffee Trees Rust Pandemic. Chaos. 2024.

86. **T. Lazebnik**, A. Rosenfeld, A Computational Model For Individual Scholars' Writing Style Dynamics. Journal of Writing Research. 2024.

87. **T. Lazebnik**, Mathematical Model of Dating Apps' Influence on Sexually Transmitted Diseases Spread Dynamics. Social Network Analysis and Mining. 2024.

88. **T. Lazebnik**, O. Iny, Temporal Graphs Anomaly Emergence Detection: Benchmarking For Social Media Interactions. Applied Intelligence. 2024.

89. M. Levi, **T. Lazebnik**, S. Kushnir, N. Yosef, D. Shlomi, Machine Learning Computational Model to predict Lung Cancer Using Electronic Medical Records. Cancer Epidemiology. 2024.

90. **T. Lazebnik**, A. Rosenfeld, Detecting LLM-Assisted Writing in Scientific Communication: Are We There Yet?. Journal of Data and Information Science. 2024.

91. **T. Lazebnik**, Y. Golov, R. Gurka, A. Harari, A. Liberzon, Exploration-Exploitation Model of Moth-Inspired Olfactory Navigation. Journal of the Royal Society Interface. 2024.

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1. B. Florkiewicz, **T. Lazebnik**, Faces of Time: A Historical Overview of Rapid Innovations in Coding Animal Facial Signals. Frontiers in Veterinary Science. 2025.
2. **T. Lazebnik**, Computational Applications of Extended SIR Models: A Review Focused on Airborne Pandemics. Ecological Modeling. 2023.

Proceedings Papers

1. **T. Lazebnik**, L. Zalmanson, O. Mokryn, Mind Your Manners: The Dynamics of Politeness in Human-AI vs. Human-Human Interactions. Proceedings of the ACM on Human-Computer Interaction. 2025.
2. **T. Lazebnik**, A. Somech, Demonstrating SubStrat: A Subset-Based Strategy for Faster AutoML on Large Datasets. International Conference on Very Large Data Bases (VLDP). 2023.
3. **T. Lazebnik**, S. Bunimovich-Mendrazitsky, Improved Geometric Configuration for the Bladder Cancer BCG-based Immunotherapy Treatment Model. ISMCO. 2021.

Articles in Hebrew

1. I. Kirshenboim, **T. Lazebnik**, Implications of a maritime blockade on energy poverty in Israel. Social Security. 2026.

Book Review

1. **T. Lazebnik**, Book Review: Scientific Machine Learning: Foundations, Algorithms, and Applications. SIAM Review. 2027.

Books

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1. L. Shami, **T. Lazebnik**, O. Akirev, Analysis of the Optimal Number of Ministers.
2. A. Shmual, O. Glickman, **T. Lazebnik**, Data Augmentation for Deep Learning Regression Tasks by Machine Learning Models.

3. **T. Lazebnik**, A. Rosenfeld, Researchers' Chances of Securing Favorable External Review Letters: An Aduit Study.
4. **T. Lazebnik**, L. Shami, Investigating Tax Evasion Emergence Using Dual Large Language Model and Deep Reinforcement Learning Powered Agent-Based Simulation.
5. L. Toral, **T. Lazebnik**, Accelerating Reinforcement Learning Algorithms Convergence using Pre-trained Large Language Models as Tutors With Advice Reusing.
6. Z. Ben-Zion, G. Simon, **T. Lazebnik**, Can LLMs Get High? A Dual-Metric Framework for Evaluating Psychedelic Simulation and Safety in Large Language Models.
7. D. Lederman, **T. Lazebnik**, L. Shami, Beyond the First Impression: A Two-Period Screening Model under Probationary Employment.
8. B. Taskin, **T. Lazebnik**, An Epidemiological Modeling Take on Religion Dynamics.
9. B. Florkiewicz, **T. Lazebnik**, Assessing the Importance of Gestural Features in Non-Human Primate Facial Signals.
10. M. Glebov, B. Ferwerda, **T. Lazebnik**, When Does Model Accuracy Stop Mattering for Users? Understanding Diminishing Returns in Human–AI Interaction with Clinical Preoperative Advice.
11. E. Peretz-Andersson, P. Mikalef, L. Carlsson, **T. Lazebnik**, AI Maturity as a Performance Driver: Technology, Data, and Organizational Complements.
12. **T. Lazebnik**, D. Gorlitsky, G. Don, Before You Analyze: Federated Fitness-for-Purpose Scoring to Anticipate Unreliable Clinical Real-World Evidence from Observational Data.
13. E. Peretz-Andersson, L. Shami, **T. Lazebnik**, Migration, Cash Use, and the Non-Observed Economy in Sweden.
14. Y. Gargi, O. Levi, D. Cohen, J. Klein, J Vine, M. Glebov, **T. Lazebnik**, N. Levran, L. Statlender, E. Segal, A. Cohen, Early nucleated red blood cells are associated with subsequent severe renal deterioration and mortality in septic shock.
15. A. Noiboar, L. Shami, E. Peretz Andersson, **T. Lazebnik**, Consumer Tax Incentives and Formal Reporting: Causal Evidence from Sweden's ROT Reform.
16. Y. Khalatnik, M. Har-Even, N. Cohen, **T. Lazebnik**, Immigration Status Predicts Emergency Surgical Delays: A National Population-Based Study.
17. A. Solomon, **T. Lazebnik**, Mitigating Gender Bias in Point-of-Interest Recommender Systems via Knowledge-integrated Autoencoder.
18. I. Kirshenboim, N. Cohen, **T. Lazebnik**, A Legitimacy Dynamics and Budget Allocation Game-Theory Formalization For Natural and Man-Made Crisis Governance.
19. A. Bengiat, **T. Lazebnik**, Friends, Foes, and First Authors: A Game Theory Model of How Power Plays Rewrite Academic Co-Authorship Networks.
20. G. Rotkop, **T. Lazebnik**, A. Elmalech, Causal Inference Under Structural Non-Positivity in Retrospective Studies: The VSD Framework.
21. M. Mincu-Iorga, D. Gavojdian, A. Zamansky, **T. Lazebnik**, Automated extraction of cow calls from noisy farm environments.
22. D. Cherry, C. J. Henry, **T. Lazebnik**, B. Florkiewicz, Stress in Service Dogs: Current Obstacles and Future Directions.
23. A. Stoliarsky, R. Aviram, **T. Lazebnik**, Multilingual Wikipedia Academic References Dataset.
24. A. Alexi, **T. Lazebnik**, Empirical Insights into Scholars' Manuscript Submission.
25. Y. Gargi, N. Glebov, **T. Lazebnik**, M. Maksin, D. Stein, O. Levi, D. Cohen, L. Statlender, D. Livingstone, J. Vine, E. Segal, A. Cohen, BMI-aware interpretation of formula-based airway mechanical power in severe hypoxemic respiratory failure: MIMIC-IV derivation and eICU external validation.
26. D. Cherry, B. N. Florkiewicz, **T. Lazebnik**, C. Henry, Evaluating Stress in Service Dogs (Canis lupus familiaris): A Comparative Analysis of Individual Stress Measures and Ranking Consistency.
27. I. Kirshenboim, N. Cohen, **T. Lazebnik**, National Management Preferences in Natural and Man-Made Emergencies.
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31. M. Osmanovic, I. Paulsson, **T. Lazebnik**, Disturbance-Aware Aerial Robotics for Ethical Wildlife Monitoring.
32. Y. Gargi, N. Glebov, **T. Lazebnik**, M. Maksin, D. Stein, O. Levi, D. Cohen, L. Statlender, D. Livingstone, J. Vine, E. Segal, A. Cohen, Hiding in the Hub: The Skin-Facing Undersurface as an Unrecognised Site of Microbial Colonisation in Central Venous Catheters.
33. Y. Gargi, A. Cohen, O. Levi, D. Cohen, K. Klevin, J. Vibe, **T. Lazebnik**, N. Levran, E. Segal, Persistent nucleated red blood cell positivity at day 7 is independently associated with 90-day mortality and vasopressor burden in septic shock: a retrospective landmark analysis.
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36. E. Peretz-Andersson, **T. Lazebnik**, I. Reinhartz-Berger, Between Readiness and Resistance: An Empirical Investigation of Socio-Technical Conditions for Enterprise IT and AI Adoption.
37. I. Kirshenboim, N. Cohen, **T. Lazebnik**, When Emergency Hits: Military and Civilian Elites on Planning versus Response.
38. I. Kirshenboim, N. Cohen, **T. Lazebnik**, When Countries Help Other Countries During Crisis? A Political-Economic Game Theory Model.
39. M. Har-Even, **T. Lazebnik**, Disciplinary Differences in Evaluating Social Evidence: Explanatory Preferences and Policy Judgments.
40. Y. Gargi, A. Cohen, A. Schwartz, **T. Lazebnik**, A. Rozental, D. Livingstone, O. Rotem, R. Eshkenazy, O. Levi, D. Stein, D. Cohen, M. Katsin, H. S. Taube, M. Glebov, E. Segal, Early Beta-Blocker Withholding Versus Route-Mixed ICU Continuation/Restart in Chronic Beta-Blocker Users With Norepinephrine-Dependent Septic Shock.
41. Y. Gargi, D. Livingstone, O. Levi, D. Cohen, O. Rotem, R. Eshkenazy, A. Rozental, E. Mishuk, Z. Cohen, J. Klein, J. Vine, **T. Lazebnik**, M. Glebov, D. Stein, E. Segal, A. Cohen, L. Statlender, Early intracranial pressure response after mannitol as a physiologic stress-test phenotype: a retrospective five-cohort study with limited transportability.
42. Z. Ben-Zion, **T. Lazebnik**, Playful AI in Professional Email: A Field Experiment on Tone and Recipient Engagement.
43. D. Krongauz, A. Zulti, E. Segal, **T. Lazebnik**, Automatic Ordinary Differential Equations Discovery For Biological Systems Using Large Language Model Powered Agentic System.
44. **T. Lazebnik**, Symbolic Discovery of Regional Non-Observed Economy Activity Spillovers in Sweden.
45. E. Savchenko, E. Peretz-Andersson, L. Shami, **T. Lazebnik**, Digital Entrepreneurial Ecosystems and the Transition from Informal to Formal Business.
46. O. Edri-Peer, N. Cohen, **T. Lazebnik**, Towards Measuring Street-Level Social Equity Tendencies: Scale Development and Validation.
47. Z. Ben-Zion, **T. Lazebnik**, Naming architecture is associated with venue inflation in institutional press releases.
48. **T. Lazebnik**, Z. Ben-Zion, Distress from many sources, not just more distress: complex social reinforcement of post-traumatic stress after collective trauma.
49. **T. Lazebnik**, Robustness of Federated Statistical Inference Under Realistic Multi-Hospital Heterogeneity.
50. **T. Lazebnik**, Profiling When Federated Analysis Outperforms Classical Meta-Analysis.
51. **T. Lazebnik**, Profiling, Hybrid Repair, and Federated Learning for Clinical Data Quality.
52. G. Aloni, **T. Lazebnik**, Symbolic Regression Reconstruction Under Partial Observability.
53. **T. Lazebnik**, Tumor–Immune Interactions and Macrophage Polarization in Meningioma: A Free-Boundary Model.

54. L-O. Alon, **T. Lazebnik**, Graftage-Based Economical–Epidemiological Management of the Coffee Leaf Rust Pandemic.
55. L-O. Alon, **T. Lazebnik**, When the Mean Misleads: Decision-Tipping Surfaces for Spatial Dengue Control under Stochastic Transmission and Noisy Surveillance.
56. L-O. Alon, **T. Lazebnik**, Movement-Aware Biosecurity for Fusarium Wilt Tropical Race 4 in Banana Farms.
57. Y. Klosmov, **T. Lazebnik**, others, Moderate-to-Severe Postoperative Pain in the Pediatric Post-Anesthesia Care Unit: Procedure-Specific Reference Rates and the Limits of Intraoperative Data for Risk Adjustment.
58. **T. Lazebnik**, L. Shami, E. Peretz-Andersson, Digital Payments and the Informal Economy: Cross-Country Evidence on Timing and Measurement.
59. **T. Lazebnik**, L. Shami, E. Peretz-Andersson, Migration Networks and the Cross-National Geography of Informal Employment.
60. **T. Lazebnik**, Epidemic models need a measurement policy as well as an intervention policy.
61. **T. Lazebnik**, One Health Has a Scale Problem: When Data Integration Changes the Epidemic.
62. **T. Lazebnik**, Recovering Hidden Epidemic Structure with Mechanistic-AI Model.
63. **T. Lazebnik**, Outcome-Conditioned Strategic Variation in Competitive Strategy Games.
64. M. Har-Even, **T. Lazebnik**, Dense Digital Diaries Reveal Persistent Symptom Burden but Limited Incremental Value of Hidden-State Modeling After Concussion.
65. S. Rosenblum, **T. Lazebnik**, Z. Ben-Zion, Being judged through the record: A Rosenhan-inspired test of psychiatric label sensitivity in large language models.
66. J. Jones, **T. Lazebnik**, R. W. Miller, C. J. Henry, B. Florkiewicz, The Impact of Hypervigilance on Human and Artificial Perceptions of Dog Faces.
67. N. Cohen, Y. Khalatnik, M. Har-Even, **T. Lazebnik**, When Does Immigrant Origin Matter at the Frontline? Local Demography and Discretion in Hospital Care.
68. E. Savchenko, **T. Lazebnik**, From Gender Equality Plans to Gender Equality? Commitments, Targeting and Career Trajectories in Italian Public Universities.
69. M. Har-Even, S. Berkowitz, E. Shavit-Stein, I. Spector, C. G. Pick, **T. Lazebnik**, Oral Niacin Preserves Neuronal Density and Modulates Neuroinflammatory Responses After Traumatic Brain Injury in Mice.
70. A. Stoliarsky, R. Aviram, **T. Lazebnik**, Shared core, local voices: scientific sourcing across multilingual Wikipedia.
71. E. Savchenko, **T. Lazebnik**, Double Displacement and PTSD in a National Trauma Context.

Grants received

1. Vinnova Foundation - ”BELIEF - Från prediktion till tillit: AI-baserat beslutsstöd för underhåll”, 100000 euro.
2. ”Incidence and risk factors for recurrent urinary tract infection in children caused by bacilli ESBL”, 15000 NIS.
3. ”Implementation of artificial intelligence methods to improve early detection of disease outbreaks, public responses, prevention and management”, 15000 NIS.

Academic community serving

1. Co-chair of the Israeli Academic Scientometrics Community, 2023-Current.

Editorial work

1. **Journal:** BMC Medical Informatics and Decision Making. **Position:** Editor, 12.2025 - Current.
2. **Journal:** Frontiers in Veterinary Science. **Position:** Guest editor of a special issue entitled ”Innovative Insights into Mammalian Facial Signals”, 7.2025 - Current.
3. **Journal:** Plos One. **Position:** Editor, 1.2025 - 11.2026.
4. **Journal:** Cells. **Position:** Guest editor of a special issue entitled ”Cell-Cell Interaction Modeling of Cancer Immunotherapy Treatments”, 1.2022 - 2.2023.

Conference Talks (selected)

1. **Subject: Lazebnik, T.**, Physics-informed spatio-temporal symbolic regression.
   Conference: 18th US National Congress on Computational Mechanics, 07.2025.
2. **Subject: Lazebnik, T.**, Shami, L., Got much, got nothing: Analyzing the impact of increased special interest groups' influence on utility.
   Conference: The 47th Eurasia Business and Economics Society conference, 04.2024.
3. **Subject:** Simon-Keren, L., **Lazebnik, T.**, Liberzon, A., Predictive correlations for particle motion across a stratified interface using machine learning .
   Conference: The 14th International ERCOFTAC symposium on Engineering, Turbulence, Modelling and Measurements, 09.2023.
4. **Subject: Lazebnik, T.**, Using ML models in infectious diseases prediction with economical constraints.
   Conference: AI2 - medicine in the AI Era, 05.2023.
5. **Subject: Lazebnik, T.** and Bunimovich-Mendrazitsky, S., Extended Mathematical Model for the BCG-based Treatment of Type 1 Diabetes.
   Conference: Dynamical Systems Applied To Biology And Natural Science, 02.2023.
6. **Subject: Lazebnik, T.** and Bunimovich-Mendrazitsky, S., Mathematical Model for the BCG-based Treatment of Type 1 Diabetes.
   Conference: Dynamical Systems Applied To Biology And Natural Science, 02.2022.
7. **Subject:** Shami, L. and **Lazebnik, T.**, Financing and Managing Epidemiological-Economic Crisis: The Reserve Model.
   Conference: ICEA, Public Policy Lessons conference, 11.2021.
8. **Subject: Lazebnik, T.**, Shami, L., and Bunimovich-Mendrazitsky, S., Epidemiological-Economical Pandemic Management By A Spatio-Temporal Mathematical Model.
   Conference: Dynamical Systems Applied To Biology And Natural Science, 02.2021.