

# Kira Radinsky

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**Affiliation** CEO and CTO, Diagnostic Robotics  
Visiting Scientist, Technion  
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## Education

**2009-2012** Ph.D. in Computer Science, Technion  
*Research supervised by Prof. Shaul Markovitch*

**2007-2008** B.Sc. Computer Science, Technion, Graduated with honors (Summa Cum Laude)  
*Studied in the Technion Excellence program (top 1% of all Technion students)*  
*Started my B.Sc. at age 15 (Technion gifted students program)*  
*GPA: 93/100*

## Professional Experience

**2019 - Present** Diagnostic Robotics, Tel Aviv, Israel  
*Chairwoman and Chief Executive Officer*  
Making healthcare better, cheaper, and more widely available, aiming to solve the world's health systems loads, where its biggest manifestation, as we all have experienced, are the emergency rooms loads.

**2022 - Present** Esh Digital Bank, Tel Aviv, Israel  
*Board Member*  
Esh is a banking technology group whose goal is to accelerate the transition from traditional banking models to innovative models with mutual interest between the bank and the customer using advanced technology.

**2022 - Present** Mano Bio, Tel Aviv, Israel  
*Founder*  
Mana.bio is an AI based drug delivery startup, focusing on gene therapy including DNA and RNA-based therapeutics, and vaccines. We are on a mission to disrupt the drug delivery space using combined forces of machine learning and nanotechnology.

**2016 - 2022** Maccabi Health Care, Tel Aviv, Israel  
*Board Member (Maccabi Health Data Science Institute)*

**2015 - 2020** HSBC, London, UK  
*Technology Board Member*

**2017 -  
2020** Israel Securities Authority, Tel Aviv, Israel  
*Board Member*

**2016 -  
2019** eBay, Netanya, Israel  
*Director of Data Science and Israel's Chief Scientist*

As the chief scientist and the director of data science of eBay, we are building the next generation predictive data mining, deep learning and natural language processing solutions that will transform eCommerce.

**2012 -  
2016** SalesPredict (acquired by eBay), San Francisco, CA, USA  
*Co-Founder and CTO*

In 2012, I co-founded SalesPredict, one of the fast-growing companies in Israel. SalesPredict has multiple international offices and global sales growing at 14x year-over-year. We are one of the main players in predictive marketing space with tangible results to our customers - more than x2 their sales conversions.

I lead the data science team, and specifically our vision of "Automatic Data Science": an ongoing effort to create a product that is completely automated without the need for an expert in the loop. In their book, Gutierrez and Peter Norvig feature my team and how we get results while keeping high scientific standards.

**2009 -  
2012** Microsoft Research, Redmond, WA, USA  
*Researcher*

Leading research in the field of predictive analytics and temporal information retrieval across a diverse array of applications. My research was published in top-tier conferences and journals and selected among the best 2013 computing articles. I organized scientific tutorials and workshops and held keynotes in multiple industrial and academic conferences (Wall Street Journal conference, Strata Big Data conference, WWW, WSDM and more), and in global events, including TEDx. I co-authored over 10 patents.

Most notable product contributions:

- Bing temporal ranking - I was the technical lead from inception to deployment across the search funnel. We significantly improved search results by utilizing predictions of changing human information goals.
- TMG/ISA Anomaly detection - I initiated and lead an AI system to identify threats and attacks on organizations.

**2004 -  
2007** Intelligence Forces (Israel Defense Forces)  
*Software Engineer*

Had the honor of being part of a great team that was honored by the **Israel Defense Prize** for "the development and implementation of a system that is a unique technological achievement. The system operational achievements led to far-reaching values and contribution to the country's security".

## Research Interests

My primary research focus is on how Web Dynamics and Knowledge can help us predict future events in our world. I investigate the changes the Web undergoes with time, from such salient changes as the addition and evolution of content, to more subtle temporal dynamics of user behavior, and how these can be used to predict future population behavior. I combine this dynamics along with other World Knowledge available on the Web to build systems that feed on numerous heterogeneous resources, such as Web activity, Real-Time

media and Social media, to alert about upcoming future global events. In the last couple of years, I have been focusing on applying such techniques in the medical domain and building algorithms for automatic medical discoveries and breakthroughs.

**Favorite Areas:** Data Mining, Natural Language Processing, Information Retrieval, Knowledge Discovery, Machine Learning and Artificial Intelligence.

## Teaching Experience

- Lecturer in charge, “Deep Learning for NLP” course, 2017–2018
- Lecturer in charge, “Advanced Data Science” course (new course I designed and supervised), 2016–2017
- Lecturer in charge, “Deep Learning for NLP” course (new course I designed and supervised for graduate degrees), 2015–2016
- Teaching assistant in charge, “Search Engines Technologies and Algorithms” course, 2010–2011
- Teaching assistant in charge, “Theory of Compilation” course, 2009–2011
- Teaching assistant, “Introduction to Computer Science” course (**Best TA award**), 2007–2008

## Professional Activities

### Organization and Committee Activities

- Chair, General Conference, EU Data Science Conference, 2018
- Co-Chair, Big Data Track, WWW Conference, 2018
- Chair, General Conference, EU Data Science Conference, 2017
- Co-Chair, Doctoral Consortium SIGIR, 2017
- Co-Chair, Tutorials WSDM, 2016
- Co-Chair, Doctoral Consortium SIGIR, 2016
- Co-Chair, Short Paper Track ECIR, 2014
- Co-Organizer, SIGIR Workshop on Time-aware Information Access, 2013
- Co-Organizer, WSDM Tutorial on Temporal Web Dynamics and its Application to Information Retrieval, 2013
- Co-Organizer, SIGIR Workshop on Time-aware Information Access, 2012

### Reviewing Activities

- **Journal Reviewer:** TWEB, TIST, Data Mining and Knowledge Discovery Journal
- **Conference Senior PC member:** KDD’22, WWW’22, WSDM’22, SIGIR’21, WSDM’21, SIGIR’20, WSDM’20, WSDM’19, SIGIR’19, AAAI’19, WSDM’18
- **Conference PC member:** WWW’19, AAAI’19, WWW’18, SIGIR’17, WWW’17, AAAI’17, WSDM’16, AAAI’16, KDD’15, WWW’15, WSDM’15, KDD’14, SIGIR’14, WWW’14, WSDM’14, SIGIR’13, WWW’13, WWW’12, AAAI’12, ACL’12

## Honors & Awards

### Academic

- 2016**      **Honorary Fellow of Afeka College of Engineering**  
*Afeka College of Engineering*  
In recognition of Dr. Radinsky's entrepreneurial achievements and of her position as a leading inventor in her field. For the inspiration she has given to the people by harnessing advanced technologies for the benefit of society. Other receivers of the prize: Shimon Peres and Prof. Ruth Arnon.
- 2013**      **Best of 2013: Most Notable Article in Computer Science**  
*ACM Computing Reviews*  
Journal article on temporal information retrieval selected as one of the most notable articles in Information Systems for 2013.
- 2013**      **MIT 35 Innovators Under 35**  
*MIT Technology Review*  
Recognized by MIT Technology Review as one of the world's 35 top young innovators for accomplishments that are poised to have a dramatic impact on the world as we know it in the field of Computer Science.
- 2012**      **Facebook Fellowship**  
*Facebook*  
Finalist of the Facebook Fellowship for work in the field of Data Mining, Natural Language Processing and Machine Learning.
- 2011**      **Yahoo! Key Scientific Challenge Award**  
*Yahoo!*  
Recipient of the Yahoo! KSC award for work in the field of Information Retrieval, Algorithms, and Data Mining
- 2010-2012**      **Google Grants**  
*Google*  
Google WWW Grant (2012), Google WSDM Grant (2011), Google SIGIR Grant (2010)
- 2009**      **Google Anita Borg Prize**  
*Google*  
Recipient of the Google Anita Borg Scholarship for 20 Leading women in Computer Science.
- 2009**      **Best Technion CS Academic Work**  
*Technion, Computer Science Department*  
Technion computer Science prize for best academic work
- 2007-2009**      **Technion President's List award of Distinction**  
*Technion*  
Based on academic excellence I was selected repeatedly to the Technion Presidents's list

**2008**      **Best Teaching Award**  
*Technion*  
Technion award for best teacher assistant

**2007**      **Innovation in Technology Prize**  
*Technion*  
Recipient of the Technion award honoring innovations in technology

## **General**

**2022**      **Special Contribution to the State of Israel Award**  
*Israel's Minister of Immigration*  
Winner of the Minister of Immigration and Absorption Award in the field of science for a special contribution to society and the country in Israel.

**2021**      **Light of Israel Award**  
*Israel's Minister of Foreign Affairs*  
Recognized with an award that acknowledges exceptional accomplishments within one's respective professional domain, while also effectively representing Israel on the international platform.

**2021**      **Young Global Leader**  
*World Economic Forum*  
Selected to be part of the proactive multistakeholder community of the world's next-generation leaders to inform and influence decision-making and mobilize transformation.

**2018**      **Israel Defense Prize**  
*Israel Minister of Defense*  
Personal award to a project that had a dramatic effect on Israel security, including the prevention of hundreds of attacks: "the project embodies the development of an innovative approach aimed at achieving intelligence superiority and realizing the potential embodied in the digital age, impressive organizational integration and unique technological achievements in the fields of Big Data."

**2017**      **Israel's brightest young women**  
*Globes Magazine*  
Recognized by the largest Israeli financial newspaper, Globes, as one of the 70 Israel's brightest young women of all times.

**2017**      **Person of the year**  
*Channel 9*  
Recognized by channel 9 for "breaking the glass ceiling" for the Aliya from USSR.

**2016**      **Lady Globes Woman of the Year**  
*Globes Magazine*  
Recognized by the largest Israeli financial newspaper, Globes, as Woman of the Year, based on my contribution to science and business in Israel.

- 2015**      **Forbes 30 under 30 Rising Stars Of Enterprise Technology**  
*Forbes Magazine*  
 Recognized by Forbes as one of the Rising Stars Of Enterprise Technology that are chosen based on their success at leading a team building tools that will change the face of business, and create profitable revenue growth.
- 2015**      **Technology Pioneer Award**  
*Times of Israel Magazine*  
 Recognized by Times of Israel as one of the Israeli pioneers in Technology.
- 2014**      **Israel 66th Independence Day Torch Honoree**  
*State of Israel*  
 Honored to be one of the 14 chosen for their contribution to the state of Israel, to light a torch in honor of Independence Day, as a representative of the field of science.
- 2014**      **GOOD 100**  
*GOOD Magazine*  
 Recognized as one of the 2014 GOOD 100 for research in the field of predictive data mining. The GOOD 100 represent the vanguard of creative impact from around the globe. This year's list is a diverse group of artists, activists, entrepreneurs, and innovators from over 35 countries.
- 2013**      **10 Female Founders To Watch**  
*Forbes Magazine*  
 Recognized by Forbes as one of 10 Female Founders To Watch Out Of Israel.
- 2013**      **100 Inspiring people in Israel**  
*Maariv Magazine*  
 Recognized by Maariv Magazine as one of the 100 most inspiring people in Israel
- 2013**      **40 Under 40 Promising Businesspeople in Israel**  
*Globes Magazine*  
 Recognized by Globes Magazine as one of the young promising businesspeople in Israel
- 2013**      **50 Influential Women in Israel**  
*Globes Magazine*  
 Recognized by Globes Magazine as one of the influential women in Israel
- 2006**      **Israel Defense Prize**  
*Israel Minister of Defense*  
 For significant contributions to the defense of the state of Israel (shared)

## Graduate Students

- Natan Kaminsky (Msc Technion). Thesis Topic: “Zero-Shot Drug Discovery”. 2022 – 2023 (expected).
- Roy Benjamin (Msc Technion). Thesis Topic: “Style Based Molecule-to-Molecule Translation”. 2021 – 2022 (expected).
- Yakir Yehuda (Msc Technion). Thesis Topic: “A Framework for Clinical Classification of Multivariate Time Series using Koopman Operators”. 2021 – 2022 (expected).
- Shunit Agmon (PhD Technion). Thesis Topic: “Exploring Bias Mitigation in Scientific Data and Human Behavior through Natural Language Processing”. Joint Supervision with Prof. Benny Kimelfeld. 2020 – 2025 (expected).
- Guy Barshatski (Msc Technion). Thesis Topic: “Deep Generative Models for Molecular Optimization”. 2021. **Summa cum laude**.
- Gal Peretz (Msc Technion). Thesis Topic: “What If: Generating Code to Answer Simulation Questions”. 2021
- Dan Kalifa (Msc Technion). Thesis Topic: “Leveraging World Events to Predict E-Commerce Consumer Demand under Anomaly”. 2021. **Cum laude**.
- Guy Rosin (PhD Technion). Thesis Topic: “Learning Language Changes over Time”. Joint Supervision with Prof. Shaul Markovitch. 2017 – 2022
- Uriel Singer (PhD Technion). Thesis Topic: “The Progression of Science over Time through the Studies of Knowledge of PPI”. 2018 – 2022 (expected)
- Galia Nordon (PhD Technion). Thesis Topic: “Leveraging Multiple Drug Modalities for Drug Repurposing”. Joint Supervision with Prof. Benny Kimelfeld. 2021
- Tomer Golany (PhD Technion). Thesis Topic: “Deep Generative Models for ECG Classification”. 2021
- Guy Elad (MSc Technion). Thesis Topic: “Generating Personality-Oriented Descriptions”. 2019
- Eylon Shoshan (MSc Technion). Thesis Topic: “Latent Entities Extraction: How to Extract Entities that Do Not Appear in the Text?”. 2019
- Aviram Magen (MSc Technion). Thesis Topic: “Learning to Rank Molecules”. 2019
- Dor Ringel (MSc Technion). Thesis Topic: “NLP Classification via Cultural Difference”. 2019
- Shahar Harel (MSc Technion). Thesis Topic: “Accelerating Prototype-Based Drug Discovery using Conditional Diversity Networks”. 2018

## Publications

### PhD Thesis

- [1] Kira Radinsky. Learning to predict the future using web knowledge and dynamics. In *Technical Report*. Supervisor: Prof. Shaul Markovitch, Technion, 2012.

### Journal Papers

- [1] Shunit Agmon, Plia Gillis, Eric Horvitz, and Kira Radinsky. Gender-sensitive word embeddings for healthcare. *J. Am. Medical Informatics Assoc.*, 29(3):415–423, 2022.
- [2] Uriel Singer, Eric Horvitz, and Kira Radinsky. On biases of attention in scientific discovery. *Bioinformatics*, 2020.
- [3] Maor Lewis, Guy Elad, Moran Beladev, Gal Maor, Kira Radinsky, Dor Hermann, Yoav Litani, Tal Geller, Jesse M Pines, and Jose F Figueroa. Comparison of deep learning with traditional models to predict preventable acute care use and spending among heart failure patients. *Nature Scientific Reports*, 2021.

- [4] Zvi Segal, Dan Kalifa, Kira Radinsky, Bar Ehrenberg, Guy Elad, Gal Maor, Maor Lewis, Muhammad Tibi, Liat Korn, and Gideon Koren. Machine learning algorithm for early detection of end-stage renal disease. *BMC nephrology*, 2020.
- [5] Zvi Segal, Kira Radinsky, Guy Elad, Gal Marom, Moran Beladev, Maor Lewis, Bar Ehrenberg, Plia Gillis, Liat Korn, and Gideon Koren. Development of a machine learning algorithm for early detection of opioid use disorder. *Pharmacology Research and Perspectives*, 2020.
- [6] Gideon Koren, Galia Nordon, Kira Radinsky, and Varda Shalev. Chronic use of beta-blockers and the risk of parkinson’s disease. *Clinical Drug Investigations*, 2019.
- [7] Gideon Koren, Galia Nordon, Kira Radinsky, and Varda Shalev. Identification of repurposable drugs with beneficial effects on glucose control in type 2 diabetes using machine learning. *Pharmacology Research and Perspectives*, 2019.
- [8] Shahar Harel and Kira Radinsky. Prototype-based compound discovery using deep generative models. *Molecular Pharmaceutics*, 2018.
- [9] Gideon Koren, Galia Nordon, Kira Radinsky, and Varda Shalev. Machine learning of big data in gaining insight into successful treatment of hypertension. *Pharmacology Research and Perspectives*, 2018.
- [10] Kira Radinsky, Krysta Marie Svore, Susan T. Dumais, Milad Shokouhi, Jaime Teevan, Alex Bocharov, and Eric Horvitz. Behavioral dynamics on the web: learning, modeling, and prediction. *ACM Trans. Inf. Syst.*, 31(3):16, 2013. **ACM 2013 Most Notable Article in Information Systems.**
- [11] Kira Radinsky, Sagie Davidovich, and Shaul Markovitch. Learning to predict from textual data. *J. Artif. Intell. Res. (JAIR)*, 45:641–684, 2012.

## Refereed Conference Papers

- [1] Moran Beladev, Lior Rokach, Gilad Katz, Ido Guy, and Kira Radinsky. tdGraphEmbed: temporal dynamic graph-level embedding. In *CIKM '23: The 32nd ACM International Conference on Information and Knowledge Management*, 2023.
- [2] Natan Kaminsky, Uriel Singer, and Kira Radinsky. CFOM: lead optimization for drug discovery with limited data. In *CIKM '23: The 32nd ACM International Conference on Information and Knowledge Management*, 2023.
- [3] Sally Turutov and Kira Radinsky. Generating optimized molecules without patent infringement. In *CIKM '23: The 32nd ACM International Conference on Information and Knowledge Management*, 2023.
- [4] Shadi Iskander, Kira Radinsky, and Yonatan Belinkov. Shielded representations: protecting sensitive attributes through iterative gradient-based projection. In *Findings of the Association for Computational Linguistics: ACL 2023*, 2023.
- [5] Yakir Yehuda, Daniel Freedman, and Kira Radinsky. Self-supervised classification of clinical multivariate time series using time series dynamics. In *Proceedings of the 29th ACM SIGKDD Conference on Knowledge Discovery and Data Mining, KDD 2023*, 2023.
- [6] Gal Peretz, Mousa Arraf, and Kira Radinsky. What if: generating code to answer simulation questions in chemistry texts. In *Proceedings of the 46th International ACM SIGIR Conference on Research and Development in Information Retrieval, SIGIR*, 2023.
- [7] Uriel Singer and Kira Radinsky. Eqgnn: equalized node opportunity in graphs. In *Thirty-Sixth AAAI Conference on Artificial Intelligence, AAAI*, 2022.
- [8] Roy Benjamin, Uriel Singer, and Kira Radinsky. Graph neural networks pretraining through inherent supervision for molecular property prediction. In *Proceedings of the 31st ACM International Conference on Information & Knowledge Management, Atlanta, GA, USA, October 17-21, 2022*, 2022.
- [9] Guy Rosin and Kira Radinsky. Temporal attention for language models. In *Proceedings of the 2022 Conference of the North American Chapter of the Association for Computational Linguistics NAACL*, 2022.
- [10] Galia Nordon, Aviram Magen, Ido Guy, and Kira Radinsky. Learning to rank articles for molecular queries. In *Thirty-Sixth AAAI Conference on Artificial Intelligence, AAAI*, 2022.
- [11] Dan Kalifa, Uriel Singer, Ido Guy, Guy D. Rosin, and Kira Radinsky. Leveraging world events to predict e-commerce consumer demand under anomaly. In *WSDM '22: The Fifteenth ACM International Conference on Web Search and Data Mining*, 2022.



- [12] [Tomer Golany](#), Daniel Freedman, and Kira Radinsky. ECG ODE-GAN: learning ordinary differential equations of ECG dynamics via generative adversarial learning. In *Thirty-Fifth AAAI Conference on Artificial Intelligence, AAAI*, 2021.
- [13] [Guy Rosin](#), Ido Guy, and Kira Radinsky. Time masking for temporal language models. In *WSDM '22: The Fifteenth ACM International Conference on Web Search and Data Mining*, 2022.
- [14] [Guy Barshatski](#), Galia Nordon, and Kira Radinsky. Multi-property molecular optimization using an integrated poly-cycle architecture. In *CIKM '21: The 30th ACM International Conference on Information and Knowledge Management*, 2021.
- [15] [Guy Rosin](#), Ido Guy, and Kira Radinsky. Event-driven query expansion. In *WSDM '21, The Fourteenth ACM International Conference on Web Search and Data Mining*, 2021.
- [16] [Tomer Golany](#), Kira Radinsky, Daniel Freedman, and Saar Minha. 12-lead ECG reconstruction via koopman operators. In *Proceedings of the 38th International Conference on Machine Learning, ICML*, 2021.
- [17] [Guy Barshatski](#) and Kira Radinsky. Unpaired generative molecule-to-molecule translation for lead optimization. In *KDD '21: The 27th ACM SIGKDD Conference on Knowledge Discovery and Data Mining*, 2021.
- [18] [Tomer Golany](#), Gal Lavee, Shai Tejman Yarden, and Kira Radinsky. Improving ECG classification using generative adversarial networks. In *The Thirty-Fourth AAAI Conference on Artificial Intelligence, AAAI*, 2020.
- [19] [Galia Nordon](#), Levi Gottlieb, and Kira Radinsky. Chemical and textual embeddings for drug repurposing. In *The Thirty-Fourth AAAI Conference on Artificial Intelligence, AAAI*, 2020.
- [20] [Moran Beladev](#), Lior Rokach, Gilad Katz, Ido Guy, and Kira Radinsky. Tdgraphembed: temporal dynamic graph-level embedding. In *CIKM '20: The 29th ACM International Conference on Information and Knowledge Management*, 2020.
- [21] [Tomer Golany](#), Kira Radinsky, and Daniel Freedman. SimGANs: simulator-based generative adversarial networks for ECG synthesis to improve deep ECG classification. In *Proceedings of the 37th International Conference on Machine Learning, ICML*, 2020.
- [22] [Tomer Golany](#) and Kira Radinsky. PGANs: personalized generative adversarial networks for ECG synthesis to improve patient-specific deep ECG classification. In *The Thirty-Third AAAI Conference on Artificial Intelligence, AAAI*, 2019.
- [23] [Galia Nordon](#), Gideon Koren, Varda Shalev, Benny Kimelfeld, Uri Shalit, and Kira Radinsky. Building causal graphs from medical literature and electronic medical records. In *The Thirty-Third AAAI Conference on Artificial Intelligence, AAAI*, 2019.
- [24] [Galia Nordon](#), Gideon Koren, Varda Shalev, Eric Horvitz, and Kira Radinsky. Separating wheat from chaff: joining biomedical knowledge and patient data for repurposing medications. In *The Thirty-Third AAAI Conference on Artificial Intelligence, AAAI*, 2019.
- [25] [Guy Elad](#), Ido Guy, Slava Novgorodov, Benny Kimelfeld, and Kira Radinsky. Learning to generate personalized product descriptions. In *Proceedings of the 28th ACM International Conference on Information and Knowledge Management, CIKM*, 2019.
- [26] [Guy Rosin](#) and Kira Radinsky. Generating timelines by modeling semantic change. In *Proceedings of the 23rd Conference on Computational Natural Language Learning, CoNLL*, 2019.
- [27] [Dor Ringel](#), Gal Lavee, Ido Guy, and Kira Radinsky. Cross-cultural transfer learning for text classification. In *Proceedings of the 2019 Conference on Empirical Methods in Natural Language Processing and the 9th International Joint Conference on Natural Language Processing, EMNLP-IJCNLP*, 2019.
- [28] [Uriel Singer](#), Ido Guy, and Kira Radinsky. Node embedding over temporal graphs. In *Proceedings of the Twenty-Eighth International Joint Conference on Artificial Intelligence, IJCAI*, 2019.
- [29] [Dean Zadok](#), Tom Hirshberg, Amir Biran, Kira Radinsky, and Ashish Kapoor. Explorations and lessons learned in building an autonomous formula SAE car from simulations. In *Proceedings of the 9th International Conference on Simulation and Modeling Methodologies, Technologies and Applications, SIMULTECH*, 2019.
- [30] [Slava Novgorodov](#), [Guy Elad](#), Ido Guy, and Kira Radinsky. Generating product descriptions from user reviews. In *The World Wide Web Conference, WWW*, 2019.
- [31] [Shahar Harel](#), Sefi Albo, Eugene Agichtein, and Kira Radinsky. Learning novelty-aware ranking of answers to complex questions. In *The World Wide Web Conference, WWW*, 2019.

- [32] Tomer Golany and Kira Radinsky. Personalized generative adversarial networks for ecg synthesis to improve patient-specific deep ecg classification. In *Proceedings of the Twenty-Sixth AAAI Conference on Artificial Intelligence*, 2018.
- [33] Eylon Shoshan and Kira Radinsky. Latent entities extraction: how to extract entities that do not appear in the text? In *Proceedings of the 22nd Conference on Computational Natural Language Learning, CoNLL 2018*, pages 200–210, 2018.
- [34] Shahar Harel and Kira Radinsky. Accelerating prototype-based drug discovery using conditional diversity networks. In *Proceedings of the 23rd ACM SIGKDD International Conference on Knowledge Discovery and Data Mining*, 2018.
- [35] Ido Guy and Kira Radinsky. Structuring the unstructured: from startup to making sense of ebay’s huge ecommerce inventory. In *Proceedings of the 40th International ACM SIGIR Conference on Research and Development in Information Retrieval, Shinjuku, Tokyo, Japan, August 7-11, 2017*, page 1351, 2017.
- [36] Guy Rosin, Eytan Adar, and Kira Radinsky. Learning word relatedness over time. In *Conference on Empirical Methods in Natural Language Processing EMNLP*, 2017.
- [37] Yotam Eshel, Noam Cohen, Kira Radinsky, Shaul Markovitch, Ikuya Yamada, and Omer Levy. Named entity disambiguation for noisy text. In *SIGNLL Conference on Computational Natural Language Learning CoNLL*, 2017.
- [38] Kira Radinsky and Eric Horvitz. Mining the web to predict future events. In *Sixth ACM International Conference on Web Search and Data Mining, WSDM 2013, Rome, Italy, February 4-8, 2013*, pages 255–264, 2013.
- [39] Kira Radinsky and Paul N. Bennett. Predicting content change on the web. In *Sixth ACM International Conference on Web Search and Data Mining, WSDM 2013, Rome, Italy, February 4-8, 2013*, pages 415–424, 2013.
- [40] Kira Radinsky, Fernando Diaz, Susan T. Dumais, Milad Shokouhi, Anlei Dong, and Yi Chang. Temporal web dynamics and its application to information retrieval. In *Sixth ACM International Conference on Web Search and Data Mining, WSDM 2013, Rome, Italy, February 4-8, 2013*, pages 781–782, 2013.
- [41] Milad Shokouhi and Kira Radinsky. Time-sensitive query auto-completion. In *The 35th International ACM SIGIR conference on research and development in Information Retrieval, SIGIR '12, Portland, OR, USA, August 12-16, 2012*, pages 601–610, 2012.
- [42] Kira Radinsky, Krysta Marie Svore, Susan T. Dumais, Jaime Teevan, Alex Bocharov, and Eric Horvitz. Modeling and predicting behavioral dynamics on the web. In *Proceedings of the 21st World Wide Web Conference 2012, WWW 2012, Lyon, France, April 16-20, 2012*, pages 599–608, 2012.
- [43] Kira Radinsky, Sagie Davidovich, and Shaul Markovitch. Learning causality for news events prediction. In *Proceedings of the 21st World Wide Web Conference 2012, WWW 2012, Lyon, France, April 16-20, 2012*, pages 909–918, 2012.
- [44] Kira Radinsky and Nir Ailon. Ranking from pairs and triplets: information quality, evaluation methods and query complexity. In *Proceedings of the Forth International Conference on Web Search and Web Data Mining, WSDM 2011, Hong Kong, China, February 9-12, 2011*, pages 105–114, 2011.
- [45] Kira Radinsky, Eugene Agichtein, Evgeniy Gabrilovich, and Shaul Markovitch. A word at a time: computing word relatedness using temporal semantic analysis. In *Proceedings of the 20th International Conference on World Wide Web, WWW 2011, Hyderabad, India, March 28 - April 1, 2011*, pages 337–346, 2011.
- [46] Kira Radinsky, Sagie Davidovich, and Shaul Markovitch. Predicting the news of tomorrow using patterns in web search queries. In *2008 IEEE / WIC / ACM International Conference on Web Intelligence, WI 2008, 9-12 December 2008, Sydney, NSW, Australia, Main Conference Proceedings*, pages 363–367, 2008.

## Editorials

- [1] Evgeniy Gabrilovich, Kira Radinsky, and Kuansan Wang. The BIG web track chairs’ welcome & organization. In *Companion of the The Web Conference 2018 on The Web Conference 2018, WWW 2018, Lyon, France, April 23-27, 2018*, pages 629–630, 2018.
- [2] Maarten de Rijke, Tom Kenter, Arjen P. de Vries, ChengXiang Zhai, Franciska de Jong, Kira Radinsky, and Katja Hofmann, editors. *Advances in Information Retrieval - 36th European Conference on IR Research, ECIR 2014, Amsterdam, The Netherlands, April 13-16, 2014. Proceedings*, volume 8416 of *Lecture Notes in Computer Science*, 2014. Springer.

- [3] Fernando Diaz, Susan T. Dumais, Miles Efron, Kira Radinsky, Maarten de Rijke, and Milad Shokouhi. SIGIR 2013 workshop on time aware information access (#taia2013):1137, 2013.
- [4] Fernando Diaz, Susan T. Dumais, Kira Radinsky, Maarten de Rijke, and Milad Shokouhi. SIGIR 2013 workshop on time aware information access (#taia2012). *SIGIR Forum*, 46(2):102–106, 2012.

## Additional Publications

- [1] Kira Radinsky. Learning to predict the future using web knowledge and dynamics. *SIGIR Forum*, 46(2):114–115, 2012.

## Patents

1. System and method for predicting sales. Kira Radinsky, Yaron Zakai Or, 2012
2. Social network based contextual ranking. John Neystadt, Ron Karidi, Yitzhak Tzahi Weisfeld, Roy Varshavsky, Avigad Oron, Kira Radinsky, 2012
3. Time-Aware Ranking Adapted to a Search Engine Application. Kira Radinsky, Susan T. Dumais, Krysta M Svore, Jaime Brooks Teevan, Eric J. Horvitz, 2011
4. Social marketing manager. John Neystadt, Ron Karidi, Yitzhak Tzahi Weisfeld, Roy Varshavsky, Avigad Oron, Kira Radinsky, Moshe Tennenholtz, 2011
5. Social influencers discovery. John Neystadt, Ron Karidi, Yitzhak Tzahi Weisfeld, Moshe Tennenholtz, Kira Radinsky, Roy Varshavsky, 2011
6. Social marketing incentives and rewards. John Neystadt, Ron Karidi, Yitzhak Tzahi Weisfeld, Moshe Tennenholtz, Kira Radinsky, Roy Varshavsky, 2011.
7. Social incentives platform. Moshe Tennenholtz, Roy Varshavsky, Ron Karidi, Aviv Zohar, Yuval EMEK, Kira Radinsky, 2010
8. Real-time multiple engine selection and combination. Kira Radinsky, Roy Varshavsky, Jack W. Stokes, Vladimir Holostov, Edward Schaefer, 2010
9. Market for social promotion of digital goods. Moshe Tennenholtz, Ron Karidi, Roy Varshavsky, Ran Mokady, Yuval EMEK, Kira Radinsky, 2010
10. Statistical Network Traffic Signature Analyzer. Kira Radinsky, Evgeney Ryzhyk, Moshe Golan, 2011
11. Executable code validation in web browser. David B. Cross, Kira Radinsky, 2010

## Selected Invited Talks

- O’Reilly Data Science Conference Keynote Speaker (Strata Singapore)
- TEDMed talk (Jerusalem)
- TEDx talk (Tel Aviv)
- Distinguished Lecture (Ben Gurion University of the Negev)
- Distinguished Lecture (Israel Institute for Biological Research)
- Wolf Prize Panel Talk (with Prof. David Harel , Prof. Shimon Ullman, Prof. Noah Efron and Prof. Eli Biham)
- Microsoft Research Invited Talk (Redmond)
- Google Research Talks (NYC, Tel Aviv)
- GE Global Research (NY)

- IBM Research (Haifa)
- O'Reilly Data Science Conference Keynote Speaker (Strata NYC)
- Data Science Summit Keynote Speaker (CA)
- MIT Invited Innovator Talks (Boston)
- Wall Street Journal Executive conference - Keynote Speaker (CA)
- Microsoft ThinkNext with Dr. Harry Shum (Tel Aviv)

## Selected Popular Press

- **FastCompany:** This Scientist Uses The New York Times Archive To Eerily, Accurately Predict The Future
- **Forbes:** 10 Female Founders To Watch Out Of Israel
- **MIT Technology Review:** Software Predicts Tomorrow's News by Analyzing Today's and Yesterday's
- **Time Magazine:** Kira Radinsky - the Modern Inventor
- **BBC:** News headlines used to predict future events
- **Wall Street Journal:** Alex Karp and Kira Radinsky on Finding the Balance Between Big Data and Privacy
- **Forbes:** Seven Start-Ups From Israel That You May Want To Watch
- **Wall Street Journal:** How Tech Can Protect Citizens From Big Data That Never Forget
- **IEEE Spectrum:** Kira Radinsky, the Prophet of the Web
- **Jerusalem Post:** Meet the women lighting the Independence Day torches: Dr. Kira Radinsky
- **TechCrunch:** SalesPredict Lands \$4.1M In Series A Funding
- **The NewYorker:** No One Can Predict the News, But Kira Radinsky Gets Close
- **Financial Post:** Predictive algorithm helps companies better tailor pricing, policies and now future events
- **Business Insider:** This Software Can Analyze News And Predict Disease, Violence, And Disaster
- **Discovery Channel:** Future News Predicted Now
- **Der Spiegel:** The Future Of Israel - Kira Radinsky Profile
- **WIRED:** Outsource your empathy with life prediction tool
- **Le Point:** Geniale - Elle predict le futur!
- **Forbes:** What Should Data Scientists Know?
- **O'Rielly:** Kira Radinsky Highlighted: Solving mysteries using predictive analytics