Curriculum Vitae

**Dr. Inbal Yahav**

*The Coller School of Management*

*Tel Aviv University*

**Personal Information**

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**DOB:** 15/04/1978

**Education**

**Ph.D. in Operations Research & Data Mining**. University of Maryland, College Park (2010)

**M.S. in Information Systems**. Israel Institute of Technology (2006)

**B.Sc. in Computer Science (Cum Laude)**. Israel Institute of Technology (2004)

**Academic positions**

**Senior Lecturer with Tenure**. Coller School of Management, Tel Aviv University (2019 – Present)

**Visiting Associate Professor**. Robert H. Smith School of Business, University of Maryland, College Park, USA (2018 - 2019)

**Department Chair of Information Systems**. The Graduate School of Business Administration, Bar Ilan University, Israel (2017 – 2018)

**Lecturer**. The Graduate School of Business Administration, Bar Ilan University, Israel (2011 – 2018)

**Adjunct Lecturer**. Robert H. Smith School of Business, University of Maryland, College Park, USA (2010 - 2011)

**Other academic activities (partial list)**

**Associate editor:** Decision Support Systems journal (2022 – present), Informs Journal on Data Science (2020 – present), Decision Sciences Journal (2015 – 2020), Big Data Journal (2015 – 2019)

**Track chair:** International Conference on Information Systems (2020)

**Associate editor (conference):** International Conference on Information Systems (2014 - 2019)

**Workshop organizer and chair:** Workshop on Information Technology and Systems (WITS) Feeder Event (2017), Israel Association for Information Systems (2017)

**Awards**

1. Research Excellence. Coller School of Management, Tel Aviv University (2019, 2020 - 2021)
2. Research opportunity award. The American Red Cross, Russ Reid, and Wharton Customer Analytics Center (2012 – 2013)
3. Abraham Golub Memorial Dissertation Proposal Prize. Robert H. Smith School of Business, University of Maryland, College Park (2009)
4. Dean's Fellowship for summer research. Robert H. Smith School of Business (2006 – 2010)

**Selected Grants**

1. Muchnic L., and **Yahav I.** (2022-2023). Construction And Accessibility of a Legal Database And Development Of A Language Model For The Field Of Law. *Israel Innovation Authority* (NIS 520,000)
2. Teeni D., **Yahav I**., and Mann Y. (2022-2024). Characterization of a Psychological Profile from Digital Footprints. *Israel’s Ministry of Defense (MAF’AT)* (647,500 NIS).
3. **Yahav I**., Bar-Siman-Tov I. (2021-2023). Developing Hebrew Legal and Legislative NLP Tools: Focus on Detection of Contextual Anomalies. *Ministry of Science and Technology* (650,000 NIS).
4. Mann Y., Schwartz D., and **Yahav I**. (2021-2023). Analysis of Behavioral Patterns of Islamic Influencers (‘Du‘āh’ ) in the DarkNet. *Ministry of Science and Technology* (300,000 NIS).
5. Teeni D., Schwartz D., and **Yahav I**. (2019-2020). Towards Higher Accuracy of Behavioral Big Data Analysis: A Qualitatively Augmented Hierarchical Classifier Design Method. *The Blavatnik Interdisciplinary Cyber Research Center* (560,000 NIS).
6. **Yahav I.** (2020-2021). Predicting Psychological Profiles from a Digital Footprints via a Qualitatively Augmented Classifier. *The Coller Foundation*. (130,000 NIS)
7. **Yahav I**., Sela A., and Bar-Siman-Tov I. (2019-2021). Ethical Risks in Digital Devices: A Data-Science Approach. *Ministry of Science and Technology Ministry of Science and Technology* (450,000 NIS).

**Graduate students**

**Chriqui, Avihay**. PhD, stage 3.

**Kupitz, Amit**. PhD candidate.

**Nudelman, Yulia**. PhD candidate.

**Qadri, Rawan**. MA, proposal submitted. Expected graduation: Aug/2023

**Elyashar S., Chen**. MA, graduated (2023)

**Dr. Yadin, Dena**. PhD, graduated (2022)

**publication \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

1. Jank, W., & **Yahav, I.** (2010). E-loyalty networks in online auctions. *The Annals of Applied Statistics*, 151-178
2. Lieberman, M. D., Taheri, S., Mirrashed, F., **Yahav, I.**, Aris, A., & Shneiderman, B. (2011). Visual exploration across biomedical databases. *IEEE/ACM Transactions on Computational Biology and Bioinformatics*, 8(2), 536-550.
3. **Yahav, I**., & Shmueli, G. (2012). On Generating Multivariate Poisson Data in Management Science Applications. *Applied Stochastic Models in Business and Industry*, 28(1), 91-102.
4. **Yahav, I**., & Shmueli, G. (2014). Outcomes matter: estimating pre-transplant survival rates of kidney-transplant patients using simulator-based propensity scores. *Annals of Operations Research*, 216(1), 101-128.
5. **Yahav, I**., & Shmueli, G. (2014). Directionally Sensitive Multivariate Control Charts in Practice: Application to Biosurveillance. *Quality and Reliability Engineering International*, 30(2), 159-179.
6. **Yahav, I.** (2016). Network analysis: Understanding consumers' choice in the film industry and predicting pre‐released weekly box‐office revenue. *Applied Stochastic Models in Business and Industry*, 32(4).
7. **Yahav I.**, Shmueli G., Mani D. (2016). A Tree-Based Approach for Addressing Self-Selection in Impact Studies with Big Data. *Management Information Systems Quarterly*. 40(4), pp. 819-848.
8. Schwartz, D. G., **Yahav, I**., & Silverman, G. (2017). News Censorship in Online Social Networks: A Study of Circumvention in The Commentsphere. *Journal of the Association for Information Science and Technology*, 68(3), 569-582.
9. Shmueli, G., & **Yahav, I**. (2018). The Forest or the Trees? Tackling Simpson's Paradox with Classification Trees. *Production and Operations Management*, 27(4), 696-716.
10. Cascavilla, G., Conti, M., Schwartz, D. G., & **Yahav, I**. (2018). The Insider on The Outside: A Novel System for The Detection of Information Leakers In Social Networks. *European Journal of Information Systems*, 27(4), 470-485.
11. **Yahav, I**., & Schwartz, D. G. (2018). Citizen Engagement and The Illusion of Secrecy: Exploring Commenter Characteristics in Censored Online News Articles. *Information, Communication & Society*, 21(11), 1620-1638.
12. **Yahav, I.**, Shehory, O., & Schwartz, D. (2018). Comments Mining With TF-IDF: The Inherent Bias and Its Removal. *IEEE Transactions on Knowledge and Data Engineering*, 31(3), 437-450.
13. Geva T. & **Yahav I**. (2019). Data-Driven Link Screening for Increasing Network Predictability. *IEEE Transactions on Knowledge and Data Engineering*, 33(6), 2380-2391.
14. Ayalon, L., & **Yahav, I**. (2019). Location, Location, Location: Close Ties Among Older Continuing Care Retirement Community Residents. *PloS one*, *14*(11), e0225554.
15. Slobodin, O., **Yahav, I**., & Berger, I. (2020). A Machine-Based Prediction Model of ADHD Using CPT Data. *Frontiers in human neuroscience*, 14, 383.
16. **Yahav, I.**, Schwartz, D. G., & Welcman, Y. (2020). The Journey to Engaged Customer Community: Evidential Social CRM Maturity Model In Twitter. *Applied Stochastic Models in Business and Industry*, 36(3), 397-416.
17. Schwartz, D. G., Ataiants, J., Roth, A., **Yahav, I**., Cocchiaro, B., Khalemsky, M., & Lankenau, S. (2020). Empowering Communities with a Smartphone-Based Response Network for Opioid Overdoses. *IEEE Pervasive Computing*, *19*(4), 42-47.
18. Schwartz, D. G., Ataiants, J., Roth, A., Marcu, G., **Yahav, I**., Cocchiaro, B., Khalemsky, M. & Lankenau, S. (2020). Layperson Reversal of Opioid Overdose Supported by Smartphone Alert: A Prospective Observational Cohort Study. *EClinicalMedicine*, *25*, 100474.
19. Galore-Haskel, G., Greenberg, E., **Yahav, I.**, Markovits, E., Ortenberg, R., Shapira-Fromer, R., Itzhaki, O., Schachter, J., Besser, M.J. & Markel, G. (2021). MicroRNA Expression Patterns in Tumor Infiltrating Lymphocytes Are Strongly Associated with Response to Adoptive Cell Transfer Therapy. *Cancer Immunology, Immunotherapy*, *70*(6), 1541-1555.
20. Chriqui A., & **Yahav I.** (2022). HeBERT & HebEMO: a Hebrew BERT Model and a Tool for Polarity Analysis and Emotion Recognition. *Informs Journal on Data Science*, 1(1):81-95.
21. Goldstein A., Singer-Oestreicher G., Barzilay O., & **Yahav I**. (2022). Are We There Yet? Analyzing Progress in the Conversion Funnel Using the Diversity of Searched Products. *Management Information Systems Quarterly*. Forthcoming.
22. Wang Y., **Yahav I.**, & Padmanabhan B. (2022). Smart Testing with Vaccination: A Bandit Algorithm for Active Sampling for Managing COVID-19. *Information Systems Research*. Accepted.

**Textbooks\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_**

1. Shmueli, G., Bruce, P. C., **Yahav, I**., Patel, N. R., & Lichtendahl Jr, K. C. (2017). Data Mining for Business Analytics: Concepts, Techniques, and Applications in R. John Wiley & Sons.

**Conference publication \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_**

1. Zagalsky, A., Te'eni, D., **Yahav, I**., Schwartz, D. G., Silverman, G., Cohen, D., Mann, Y. & Lewinsky, D. (2021). The design of reciprocal learning between human and artificial intelligence. *Proceedings of the ACM on Human-Computer Interaction*, *5*(CSCW2), 1-36.
2. Schwartz, D. G., & **Yahav, I**. (2021). Knowledge Contribution Diagrams for Design Science Research: A Novel Graphical Technique. In *International Conference on Design Science Research in Information Systems and Technology* (pp. 174-187). Springer, Cham.
3. Yadin, D., **Yahav, I**., & Zalmanson, L. (2020). The Guide to Content Moderation: Introducing Crowds to Mitigate the Challenges of the Human Moderator. *International Conference on Information Systems*.

**Papers under review**

1. Yadin, D., **Yahav, I.**, Zalmanson L., & Munichor N. Resolving the Ethical Tension between Creating a Civil Environment and Facilitating Free Expression Online: Comment Reordering as an Alternative to Comment Moderation. Journal of Business Ethics. *Second round*.
2. Te'eni, D., Zagalsky, A., **Yahav, I**., Schwartz, D.G., Silverman, G., Cohen, D., Mann, Y. & Lewinsky, D. Reciprocal Human-Machine Learning: A Theory-Based Paradigm and Instantiation for the Case of Message Classification. Management Science. *First round*.
3. Geva, T., Goldstein, A., & **Yahav, I**. A Framework for Automated Worker Evaluation based on Free-Text Responses with No Ground Truth. Management Science. *First round*.

**Work in progress**

1. Chriqui A., & **Yahav, I**. Parallel Bert Architecture for Imbalanced Text Classification. *Status:* *writing*.
2. **Yahav I.**, Padmanabhan B., & Wang Y. Mitigating Cyberbullying in Dynamic Environments with Diffusion-Aware Content Moderation. *Status: preliminary.*