



**Name: Michal Bitan.**  
The College of Management

**Date: 10/11/2022.**

## **CURRICULUM VITAE**

### **1. Personal Details**

Electronic Address: michalbi2@colman.ac.il.

### **2. Higher Education**

#### **A. Undergraduate and Graduate Studies**

1997-2001: B.Sc with honors in computer science, statistics, and operations research at Tel-Aviv University 5.2002.

2006-2010: MA with honors in Biostatistics at the Department of Statistics and Operation Research at Tel-Aviv University 2.2010.

#### **B. Doctoral Degree and Post-Doctoral Studies**

**2012-2020: Ph.D. in Biostatistics at the Department of Statistics and Operation Research at Tel-Aviv University under the supervision of Prof. David Steinberg, Prof. Malka Grofine and Prof. Laura Rosen.**

### **3. Academic Ranks and Tenure in Institutes of Higher Education**

<b>Dates</b>	<b>Institution and Department</b>	<b>Rank/Position</b>
2012-today	Tel-Aviv University school of mathematics	External lecturer
2012-today	Tel-Aviv-Yaffo Academic College	Teaching fellow
2017-today	Ramat Gan Academic College	Supervision of M.A graduate students
2019-today	The College of Management Academic studies	Academic fellow with the rank of lecturer



## **6. Participation in Conferences**

### **A. Active Participation**

<b>Date</b>	<b>Name of Conference</b>	<b>Scholarly/ Professional</b>	<b>Place</b>	<b>Subject of Lecture/Discussion</b>	<b>Role</b>
February 2021	SRNT 27th Annual Meeting	Prof	Zoom	Protecting children from tobacco smoke exposure - a randomized controlled trial	Lecture
February 2021	SRNT 27th Annual Meeting	Prof	Zoom	Changes in smoking behaviors in Israel during the first wave of the novel coronavirus	Poster
February 2020	The 8th ECToH European conference on tobacco or health	Prof	Berlin	Changes in Public Support for Smoke Free Areas in Israel Following Partial Implementation of the National Tobacco Control Plan.	Poster
July 2019	The annual conference of the Association of Public Health Physicians and schools of public health	Prof	Kfar Hama kabya, Israel	Project Zero Exposure, an intervention to protect children from tobacco smoke exposure: Results from a randomized controlled trial	Poster
July 2018	IBS conference	Prof	Barcelona	Measurement error in calibration sub-studies	Lecture
July 2018	The annual conference of the Association of Public Health Physicians and schools of public	Prof	Kfar Hama kabya, Israel	Association between biomarkers and parentally-reported measures of child tobacco smoke exposure: A secondary analysis of data from three trials	Poster



	health				
May 2018	Israeli Statistical Association	Prof	Weizmann Institute of Science, Israel	Estimating the intervention effect and measurement error in calibration sub-studies	First prize winning Poster
February 2018	SRNT (Society For Research On Nicotine and Tobacco) 24 <sup>th</sup> annual meeting	Prof	USA	Correlations between child hair nicotine and parentally reported exposure	Poster
May 2017	9th EMR-IBS conference	Prof	Thessaloniki	Estimating the intervention effect and measurement error in calibration sub-studies	Lecture
April 2012	Faculty of Medicine Research Fair	Prof	Tel-Aviv University, Israel	Will parents protect their young children from tobacco smoke exposure? A Systematic Review and Meta-analysis	Poster
March 2010	Faculty of Medicine Research Fair	Prof	Tel-Aviv University, Israel	Determinants of second-hand smoke exposure among Israeli school children	Poster
March 2010	Faculty of Medicine Research Fair	Prof	Tel-Aviv University, Israel	Will parents quit smoking to protect their kids from secondhand smoke exposure? A systematic review and meta-analysis of intervention trials	Poster
May 2009	Eighth Scientific Symposium of the Flight Attendants' Medical Research Institute	Prof	Boston, USA	Protecting young children from secondhand smoke: Preliminary results from a meta-analysis	Poster



## 9. Scholarships, Awards, Prizes and Commendations

16.6.2022 Peretz Award in the field of biostatistics for my thesis

## 10. Teaching

### A. Courses Taught in Recent Years

Year	Course Name	Type	Degree	No. of Students
Courses at Tel-Aviv University				
2007	Operations research 1	High Learn Course	B.Sc.	80
2013-2014	Probability and Statistics	High Learn Course	B.Sc.	80
2014-today	Introduction to Statistics and Data Analysis	High Learn Course	B.A	120
2014-today	Biostatistics for Occupational Medicine	High Learn Course	M.A	20
2015-2021	Statistic for Geography	High Learn Course	B.A	60
2015-2018	Statistics for life science	High Learn Course	B.A	60
2016	Statistics for medicine	High Learn Course	B.A	60
2019-2022	Statistics for Biomedical engineering	High Learn Course	B.Sc.	100
2019	Introduction to Probability and Statistics	High Learn Course	B.Sc.	60
Courses at Tel-Aviv-Yaffo Academic College (2018 teaching prize)				
2008-2022	Introduction to probability	High Learn Course	B.Sc.	60
2019-2022	Statistics 1	High Learn Course	B.A	60
2018-2020	Statistics 2	High Learn Course	B.A	60
2020-today	Statistical applications	High Learn	B.A	60



		Course		
Courses at the College of Management Academic studies				
2009-2010	Statistics 3	High Learn Course	B.A	30
2019-2022	Introduction to probability and statistics	High Learn Course	B.A	150
2022	Introduction to probability	High Learn Course	B.A	150
Courses at Ridman College				
2014	Statistics	High Learn Course	B.A	30
Courses at the Ramat Gan Academic College				
2017-2018	Introduction to statistics and research methods in nursing	High Learn Course	B.A	90
2018	Quantitative research methods in management	High Learn Course	B.A	90
2017-today	Final project in health systems management - Supervision of M.A graduate students	Seminar	M.A	30



## PUBLICATIONS

### 1. Ph.D. Dissertation

Statistical Issues in the design of Pilot Studies for Calibrating Exposure Assessments

### 2. Articles in Refereed Journals Published

1. **Bitan, M.**, Steinberg, D. M., Wilson, S. R., Kalkbrenner, A. E., Lanphear, B., Hovell, M. F., ... & Rosen, L. J. (2022). Association between objective measures and parent-reported measures of child tobacco smoke exposure: A secondary data analysis of four trials. *Tobacco Induced Diseases*, 20. (Q2)
2. Novak, A. M., Katz, A., **Bitan, M.**, & Lev-Ari, S. (2022). The Association between the Sense of Coherence and the Self-Reported Adherence to Guidelines during the First Months of the COVID-19 Pandemic in Israel. *International Journal of Environmental Research and Public Health*, 19(13), 8041. (Q2)
3. Peretz, C., Rotem, N., Keinan-Boker, L., Furshpan, A., Green, M., **Bitan, M.**, & Steinberg, D. M. (2022). Excess mortality in Israel associated with COVID-19 in 2020–2021 by age group and with estimates based on daily mortality patterns in 2000–2019. *International journal of epidemiology*. (cited by 1 article) (Q1)
4. Orna Tal, Yifat Ne'eman, Rotem Sadia, Rouchama Shmuel, Eitan Schejter & **Michal Bitan** (2021) Parents' attitudes toward children's vaccination as a marker of trust in health systems, *Human Vaccines & Immunotherapeutic*, DOI: 10.1080/21645515.2021.1971472 (Q1)
5. Laura Rosen, PhD, David Zucker, PhD, Nurit Guttman, PhD, Nili Brown, BA, **Michal Bitan, MSc**, Ana Rule, PhD, Mati Berkovitch, MD, Vicki Myers, PhD, Protecting Children From Tobacco Smoke Exposure: A Randomized Controlled Trial of Project Zero Exposure, *Nicotine & Tobacco Research*, Volume 23, Issue 12, December 2021, Pages 2003–2012, <https://doi.org/10.1093/ntr/ntab106> (cited by 1 article) (Q1)
6. **Bitan, M.**, Gorfine, M., Rosen, L., & Steinberg, D. M. (2021). Efficient study design to estimate population means with multiple measurement instruments. *Statistics in Medicine*. (cited by 2 articles) (Q1)
7. **Talitman, M.**, Gorfine, M., & Steinberg, D. M. (2020). Estimating the intervention effect in calibration substudies. *Statistics in Medicine*, 39(3), 239-251. (cited by 4 articles) (Q1)
8. Rosen, L. J., Rier, D. A., Schwartz, R., **Talitman, M.**, & Zwanziger, L. (2019). Knowledge and risk perceptions of Israelis towards combustible cigarettes: the need for immediate remedial action. *Israel journal of health policy research*, 8(1), 10.; doi: 10.1186/s13584-018-0276-2; (cited by 3 articles) (Q3)
9. Rosen, L., Rier, D., **Talitman, M.**, Schwartz, R., Zwanziger, L. (2018). Knowledge and risk perceptions of israelis towards combustible cigarettes: the need for immediate remedial action. *Tobacco Induced Diseases*, 16(1), A715. <https://doi.org/10.18332/tid/84276>. <http://www.tobaccoinduceddiseases.org/Knowledge-and-risk-perceptions-of-israelis-towards-combustable-cigarettes-the-need,84276,0,2.htm> (cited by 3 articles) (Q2)
10. Man, V., Hecht, I., **Talitman, M.**, Hilely, A., Midlij, M., Burgansky-Eliash, Z., & Achiron, A. (2017). Treatment of retinal artery occlusion using transluminal Nd: YAG laser: a systematic review and meta-analysis. *Graefe's Archive for Clinical and Experimental Ophthalmology*, 255(10), 1869-1877; doi: 10.1007/s00417-017-3777-8 (cited by 18 articles) (Q1)



11. Rosen, L. J., Myers, V., Hovell, M., Zucker, D., & **Noach, M. B.** (2014). Meta-analysis of parental protection of children from tobacco smoke exposure. *Pediatrics*, 133(4), 698-714; doi: 10.1542/peds.2013-0958 (cited by 79 articles) (Q1)
12. Rosen, L. J., **Noach, M. B.**, Winickoff, J. P., & Hovell, M. F. (2012). Parental smoking cessation to protect young children: a systematic review and meta-analysis. *Pediatrics*, 129(1), 141-152; doi: 10.1542/peds.2010-3209 (cited by 205 articles) (Q1)
13. **Ben Noach, M.**, Steinberg, D. M., Rier, D. A., Goldsmith, R., Shimony, T., & Rosen, L. J. (2012). Ethnic differences in patterns of secondhand smoke exposure among adolescents in Israel. *Nicotine & Tobacco Research*, 14(6), 648-656; doi: 10.1093/ntr/ntr261 (cited by 13 articles) (Q1)
14. Rosen, L. J., Guttman, N., Hovell, M. F., **Noach, M. B.**, Winickoff, J. P., Tchernokovski, S. & Klepeis, N. E. (2011). Development, design, and conceptual issues of project zero exposure: A program to protect young children from tobacco smoke exposure. *BMC Public Health*, 11(1), 508. (cited by 14 articles) (Q1)
15. Rosen, L. J., & **Noach, M. B.** (2010). Systematic reviews on tobacco control from Cochrane and the Community Guide: different methods, similar findings. *Journal of Clinical Epidemiology*, 63(6), 596-606; doi:10.1016/j.jclinepi.2009.09.010. (cited by 13 articles) (Q1)
16. Rosen, L. J., **Noach, M. B.**, & Rosenberg, E. (2010). Missing the forest (plot) for the trees? A critique of the systematic review in tobacco control. *BMC medical research methodology*, 10(1), 34. (cited by 5 articles) (Q1)

#### **Acknowledgment in the article (statistical analysis)**

1. Shapira, S., Kazanov, D., Mdah, F., Yaakobi, H., Herishanu, Y., Perry, C., ... & Arber, N. (2021). Feasibility of CD24/CD11b as a Screening Test for Hematological Malignancies. *Journal of Personalized Medicine*, 11(8), 724.
2. Shapira, S., Aiger, G., Ohayon, A., Kazanov, D., Mdah, F., Shimon, M. B., ... & Arber, N. (2021). Predictors of the CD24/CD11b Biomarker among Healthy Subjects. *Journal of personalized medicine*, 11(9), 939.

### **9. Submitted Publications**

1. Noa Theitler, Vaughan W. Rees, Maya Peled Raz, **Michal Bitan**, Laura J. Rosen. Tobacco smoke incursion into private residences: A cross-sectional study examining public perceptions of private rights and support for governmental policies" has been successfully submitted online and is presently being given full consideration for publication in Tobacco Control. Tobacco Control
2. Noah G. Rubinson, Geoffrey T. Fong, Shannon Gravely, Anne C.K. Quah, **Michal Bitan**, Shahar Lev Ari and Laura J. Rosen (2021). The association between risk perceptions, anxiety, and changes in tobacco and nicotine product use behaviors due to COVID-19 in May-June 2020 in Israel. *Nicotine & Tobacco Research*
3. Orna Tal MD, MHA, Arnon Ravid, Shlomit Bargil, MD, Jaklin Epel, Mira Avdayev, **Michal Bitan**, PhD. Physician burnout as reflected by patients - the effect of COVID-19 on patients' perspective. philosophy & public affairs.

### **12. Summary of My Research Activities and Future Plans**

I am working on the following fields:

- Perceptions regarding characteristics of professionalism among physicians and nurses
- The challenge of telemedicine - using SWOT methodology and value-based assessment



to analyze barriers, incentives, and opportunities

- Does restricting parental smoking to porches or specified indoor places protect children from tobacco smoke? Results from Project Zero Exposure
- Vaccinations during pregnancy: what influences the decision to get vaccinated?

My future plans are:

- Nurse training - how well they apply what they have been trained in practice
- Studying the relationship between positive thinking and success
- Studying the relationship between positive thinking and well-being
- Extending the model for the indirect measurement to also include subject-level covariates
- Extending the model for Estimating the intervention effect for studies with more than one time point.
- Attitudes of medical staff, patients, family and the general public regarding decision making and trust in medical care in three conditions: diabetes, cancer and schizophrenia.
- Perception of risk among health workers
- Professional and personal assessment components importance distribution among health professionals
- The effect of organizational culture on the perception of "near mistake" and "mistake" reporting.
- Job preference among physicians and nurses