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Education

2011 **Ph.D. Statistics**, Harvard University, Cambridge, MA.

Advisors Prof. Donald B. Rubin & Prof. Jun S. Liu

Ph.D. Thesis Topics and Applications in Missing Data and Causality

2007 AM Statistics, Harvard University, Cambridge, MA.

2004 M.Sc. Statistics, summa cum laude, Tel Aviv University, Faculty of Exact Sciences, School of Mathematics, Tel Aviv, Israel.

Thesis Yosef Hochberg

Advisor

Masters Improved Multiple Test Procedures for Discrete Distributions: New Ideas and Analytical Review.

Thesis

1999 **B.Sc.**, magna cum laude, Tel Aviv University, Faculty of Exact Sciences, School of Mathematics, Tel Aviv, Israel.

Major Statistics and Computer Science (including Operations Research)

Experience

Academic Appointments

2018-Current Associate Professor of Biostatistics (Tenured), Brown University, Department of Biostatistics.

2011–2018 Assistant Professor of Biostatistics (Tenure Track), Brown University, Department of Biostatistics.

2007–2011 Research Assistant, Harvard University, Department of Statistics.

Industry

1999–2006 Officer (Captain), Technological Intelligence Unit, Israel Defense Forces. Last position was head of section, managed seven programmers.

1998–1999 Head of computer lab, School of Social Work, Tel Aviv University.

Publications (students marked with *)

Statistical Methodology

- [1] Review and Evaluation of Imputation Methods for Multivariate Longitudinal data with Mixed-type Incomplete Variables, *Y. Cao, H. Allore, B. Vander Wyk, R. Gutman, Statistics in Medicine, (Accepted 2022)
- [2] A Bayesian Singular Value Decomposition Procedure for Missing Data Imputation, *R. Zhai, R. Gutman, Journal of Computational and Graphical Statistics, (Accepted 2022)
- [3] Reformulating provider profiling by grouping providers treating similar patients prior to evaluating performance, *G.C. Silva, **R. Gutman**, Biostatistics, (Accepted 2022).
- [4] A Bayesian MultiLayer Record Linkage Procedure to Analyze Post-Acute Care Recovery of Patients with Traumatic Brain Injury, *M. Shan, K.S. Thomas, R. Gutman, Biostatistics, (Accepted 2022).
- [5] Multiple imputation procedures for estimating causal effects with multiple treatments with application to the comparison of healthcare providers, *G.C. Silva, **R. Gutman**, Statistics in medicine, 41 (1), 208-226, 2022.
- [6] Bayesian Approaches for Handling Hypothetical Estimands in Longitudinal Clinical Trials with Gaussian Outcomes, L.G. Frank, J. Liu, F. Chen, R. Gutman, K. Lu, Statistics in Biopharmaceutical Research, (Accepted 2021).

- [7] Using the potential outcome framework to estimate optimal sample size for cluster randomized trials: a simulation-based algorithm, *R. Zhai, R. Gutman, Journal of Statistical Computation and Simulation, 91 (18), 3744-3770, 2021.
- [8] A Multiple Imputation Procedure for Record Linkage and Causal Inference to Estimate the Effects of Home-Delivered Meals, *M. Shan, K.S. Thomas, R. Gutman, Annals of Applied Statistics, 15 (1), 412-436, 2021.
- [9] Statistical Considerations for Embedded Pragmatic Clinical Trials in People Living with Dementia, H. G. Allore, K. S. Goldfeld, R. Gutman, F. Li, J. K. Monin, M. Taljaard, T. G. Travison, Journal of the American Geriatrics Society, 68, S68-S73, 2020.
- [10] Approximate Bayesian Bootstrap procedures to estimate multilevel treatment effects in observational studies with application to type 2 diabetes treatment regimens, *A. Scotina, **R. Gutman**, Statistical Methods in Medical Research, 29 (11), 3362-3380, 2020.
- [11] Propensity scores for proxy reports of care experience and quality: are they useful?, *J.K. Roydhouse, R. Gutman, N. Keating, V. Mor, I. Wilson, Health Services and Outcomes Research Methods, 20 (1), 40-59, 2020.
- [12] Developing and Evaluating Methods for Estimating Race/Ethnicity in an Incomplete Dataset using Address, Surname and Family ID, *G.C. Silva, A.N. Trivedi R. Gutman, Health Services and Outcomes Research Methodology, 19(2-3), 175-195, 2019.
- [13] Matching Estimators for Causal effects With Multiple Treatments, *A. Scotina, F. Beaudoin, R. Gutman, Statistical Methods in Medical Research, 29(4), 1051-1066, 2020.
- [14] Matching Algorithms for Causal Inference with Multiple Treatments, *A. Scotina, R. Gutman, Statistics in Medicine, 38(17), 3139-3167, 2019.
- [15] Development of a Common Patient Assessment Scale Across the Continuum of Care: a Nested Multiple Imputation Approach, *C. Gu, R. Gutman, Annals of Applied Statistics, 13(1), 466-491, 2019.
- [16] A Bayesian procedure for estimating the causal effects of nursing home bed-hold policy, R. Gutman, O. Intrator, A. Lancaster, Biostatistics, 19(4):444–460, 2018.
- [17] Estimation of Causal Effects with Multiple Treatments: A Review and New Ideas, *M.J. Lopez, R. Gutman, Statistical Science 32(3): 432-454, 2017.
- [18] Combining Item Response Theory with Multiple Imputation to Equate Health Assessment Questionnaires, *C. Gu, R. Gutman, Biometrics, 73(3):990-998, 2017.
- [19] Error Adjustments for File Linking Methods Using Encrypted Unique Client Identifier (eUCI) with Application to Recently Released HIV+ Prisoners, R. Gutman, C.J. Sammartino, T.C. Green, B.T. Montague, Statistics in Medicine, 35(1), 115-129, 2016.
- [20] Estimation of Causal Effects of Binary Treatments in Unconfounded Studies, R. Gutman, D.B. Rubin, Statistics in Medicine, 34(26), 3381-3398, 2015.
- [21] Estimation of causal effects of binary treatments in unconfounded studies with one continuous covariate., R. Gutman, D.B. Rubin, Statistical Methods in Medical Research, 26(3), 1199-1215, 2017.
- [22] Estimating the Average Treatment Effects of Nutritional Label Use Using Subclassification with Regression Adjustment, *M.J. Lopez, R. Gutman, Statistical Methods in Medical Research, 26(2), 839-864, 2017.
- [23] Monitoring methods in the surgical arena: Assumptions and potential pitfalls, R. Gutman, H. Gutman, European Journal of Surgical Oncology, 39(6), 575–583, 2013.
- [24] A Bayesian Procedure for File Linking to Analyze End-of-Life Medical Costs, R. Gutman, C. Afendulis, A.M. Zaslavsky, Journal of the American Statistical Association, 108(501),34–47, 2013.
- [25] Robust Estimation of Causal Effects of Binary Treatments in Unconfounded Studies with Dichotomous Outcomes, R. Gutman, D.B. Rubin, Statistics in Medicine, 32(11), 1795–814, 2013.
- [26] Discussion of Bayesian Effect Estimation Accounting for Adjustment Uncertainty, R. Gutman, D.B. Rubin, Biometrics, 68, 671–675, 2012.
- [27] Rasch Model and its Extensions for Analysis of Aphasic Deficits in Syntactic Comprehension, R. Gutman, G. DeDe, D. Caplan, J.S. Liu, Journal of the American Statistical Association, 106:496, 1304–1316, 2011.
- [28] Testing treatment effects in unconfounded studies under model misspecification: logistic regression, discretization, and their combination., M.Z. Cangul, Y.R. Chretien, R. Gutman, D.B. Rubin, Statistics in Medicine, 28(20):2531-51, 2009.

- [29] Improved Multiple Test Procedures for Discrete Distributions: New Ideas and Analytical Review., R. Gutman, Y. Hochberg, Journal of Statistical Planning and Inference, Volume 137:2380-2393, 2007.
 Clinical Trials
- [30] Assessment of patient perception of treatment assignment and patient-reported outcomes in a cannabis use disorder trial, J. Roydhouse, R.L. Tomko, K.M. Gray, R. Gutman, American Journal of Drug and Alcohol Abuse, (Accepted 2022)
- [31] Home-delivered meals for people with dementia: Which model delays nursing home placement? Protocol for a feasibility pilot, K.S. Thomas, D.M. Dosa, A Fisher, E. Gadbois, J Harrison, M. Hilgeman, E.A. Largent, J. Lima, K. McAuliff, E. McCreedy, W. Mills, K.A. Ornstein, R.R. Shield, M. Barron, S. Callaghan, K. Clark, C. Culak, V. Faris, A.E. Frankhauser, S. Huerta, K. Krause, I. Martinez, A. Mayer, J. Rodrriguez, L. Theilheimer, W. Truelove, I Wilson, R. Gutman, Contemporary Clinical Trials, (Accepted 2022)
- [32] Pragmatic Trial of Personalized Music for Agitation and Antipsychotic Use in Nursing Home Residents with Dementia, E.M. McCreedy, *A. Sisti, R. Gutman, L. Dionne, J. Rudolph, R. Baier, K. Thomas, M. Olson, E. Zediker, R. Uth, R.R. Shield, V. Mor, JAMDA, (Accepted 2022).
- [33] Effect of advance care planning video on do-not-hospitalize orders for nursing home residents with advanced illness, E.M. McCreedy, X. Yang, S.L. Mitchell, **R. Gutman**, J. Teno, L. Loomer, P. Moyo, A. Volandes, P.L. Gozalo, E. Belanger, J. Ogarek, *BMC geriatrics*, 22(1), 1-8, 2022.
- [34] Effect of advance care planning video on do-not-hospitalize orders for nursing home residents with advanced illness, E.M. McCreedy, X. Yang, S.L. Mitchell, R. Gutman, J. Teno, L. Loomer, P. Moyo, A. Volandes, P.L. Gozalo, E. Belanger, J. Ogarek, V. Mor, BMC Geriatrics, 22, Article number: 298, 2022.
- [35] Measuring implementation fidelity in a cluster-randomized pragmatic trial: development and use of a quantitative multi-component approach, M.B. Olson, E.M. McCreedy, R.R. Baier, R.R. Shield, E.E. Zediker, R. Uth, K.S. Thomas, V. Mor, **R. Gutman**, J.L. Rudolph, *Trials*, 1, 1-12, 2022.
- [36] Effect of a Video-Assisted Advance Care Planning Intervention on End-of-Life Health Care Transitions Among Long-Stay Nursing Home Residents, P. Moyo, L. Loomer, J.M. Teno, R. Gutman, E.M. McCreedy, E. Bélanger, A.E. Volandes, S.L. Mitchell, V. Mor, Journal of the American Medical Directors Association, 23 (3), 394-398, 2022.
- [37] Measuring the effects of a personalized music intervention on agitated behaviors among nursing home residents with dementia: design features for cluster-randomized adaptive trial, E.M. McCreedy, R. Gutman, R. Baier, J.L. Rudolph, K.S. Thomas, F. Dvorchak, R. Uth, J. Ogarek, V. Mor, Trials, 22 (1), 1-12, 2021.
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- [39] Impact of an Advance Care Planning Video Intervention on Care of Short-Stay Nursing Home Patients, L. Loomer, J.A. Ogarek, S.L. Mitchell, A.E. Volandes, R. Gutman, P.L. Gozalo, E.M. McCreedy, V. Mor, Journal of the American Geriatrics Society, 69 (3), 735-743, 2021.
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- [41] Advance Care Planning Video Intervention Among Long-Stay Nursing Home Residents: A Pragmatic Cluster Randomized Clinical Trial S. L. Mitchell, A. E. Volandes, R. Gutman, P. L. Gozalo, J. A. Ogarek, L. Loomer, E. M. McCreedy, *R. Zhai, V. Mor, JAMA Internal Medicine, 180 (8), 1070-1078, 2020.
- [42] Mindfulness-Based Blood Pressure Reduction (MB-BP): Stage 1 single-arm clinical trial, E.B. Loucks, W.R. Nardi, R. Gutman, I.M. Kronish, F.B. Saadeh, Y. Li, A.E. Wentz, J. Webb, D.R. Vago, A. Harrison, W.B. Britton, PloS One, 14(11): e0223095, 2019.
- [43] Analyzing patient-reported outcome data when completion differs between arms in open-label trials: an application of principal stratification, J.K. Roydhouse, **R. Gutman**, V. Bhatnagar, P. G. Kluetz, R. Sridhara, P. S. Mishra-Kalyani, *Pharmacoepidemiology and Drug Safety*, 28 (10), 1386-1394, 2019.

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Health Policy, Epidemiology and Medical Science

- [45] The Potential Impact of Proxy Reports for Patient Care Quality, Experience and Symptom Management in Advanced Cancer, J. Roydhouse, R. Gutman, J.M. Teno, Palliative & Supportive Care, (Accepted 2023)
- [46] Predicting progression from gestational diabetes to impaired glucose tolerance using peri-delivery data: an observational study, A.M. Bengtson, A.L. Espinosa Dice, M.A. Clark, **R. Gutman**, D. Rouse, E. Werner, American Journal of Perinatology, (Accepted 2022).
- [47] Adverse Events Following Third Dose of mRNA COVID-19 Vaccination among Nursing Home Residents Who Received the Primary Series, B.H. Bardenheier, E.M. White, C. Blackman, S. Gravenstein, R. Gutman, I.N. Sarkar, R.A. Feifer, K. McConeghy, A. Nanda, M. Duprey, V. Mor, Journal of the American Geriatrics Society, (Accepted 2022).
- [48] Effects of dipeptidyl peptidase-4 inhibitors and sulphonylureas on cognitive and physical function in nursing home residents, A.R. Zullo, M.S. Duprey, R.J. Smith, **R. Gutman**, S.D. Berry, M.N. Munshi, D.D. Dore, Diabetes, Obesity and Metabolism, 24 (2), 247-256, 2022.
- [49] Risk Factors of Skilled Nursing Facility Admissions and the Interrelation with Hospitalization and Amount of Informal Caregiving Received, *Y. Cao, H. Allore, R. Gutman, B. Vander Wyk, T. S. Høj Jørgensen, Medical Care, 60 (4), 294-301, 2022.
- [50] Health Outcomes Associated With Clinician-initiated Delivery for Hypertensive Disorders at 34–38 Weeks' Gestation, D.A. Savitz, V.A. Danilack, *J. Cochancela, B.L. Hughes, D.J. Rouse, R. Gutman, Epidemiology, 33 (2), 260-268, 2022.
- [51] Functional motor improvement during inpatient rehabilitation among older adults with Traumatic Brain Injury, E. Evans, C. Krebill, R. Gutman, L. Resnik, M.R. Zonfrillo, S.N. Lueckel, W. Zhang, R.G. Kumar, K. Dams-OĆonnor, K.S. Thomas, PM&R, 14 (4), 417-427, 2022.
- [52] Adverse events following mRNA SARS-CoV-2 vaccination among US nursing home residents, B.H. Bardenheier, S. Gravenstein, C. Blackman, R. Gutman, I.N. Sarkar, R.A. Feifer, E.M. White, K. McConeghy, A. Nanda, V. Mor, Vaccine, 39(29):3844-3851, 2021.
- [53] Association of patient-reported physician awareness of complementary medicine, medical care experience and care quality, J.K. Roydhouse, I.B. Wilson, **R. Gutman**, R.B. Wallace, T. Berman, N.L. Keating, Journal of Patient Experience, Volume 8, 2021.
- [54] Racial/Ethnic Differences in 30-Day Mortality for Heart Failure and Pneumonia in the Veterans Health Administration Using Claims-based, Clinical, and Social Risk-adjustment Variables, *G.C. Silva, L. Jiang, R. Gutman, W.C Wu, V. Mor, M.J. Fine, N.R. Kressin, A.N. Trivedi, Medical Care, 59 (12), 1082-1089, 2021.
- [55] Adverse events following one dose of mRNA COVID-19 vaccination among US nursing home residents with and without a previous SARS-CoV-2 infection, B.H. Bardenheier, S. Gravenstein, C. Blackman, R. Gutman, I.N. Sarkar, R.A. Feifer, E.M. White, K. McConeghy, A. Nanda, E. Bosco, V. Mor, Journal of the American Medical Directors Association, 22 (11), 2228-2232, 2021.
- [56] Comparative safety of dipeptidyl peptidase-4 inhibitors and sulfonylureas among frail older adults, A.R Zullo, R.J. Smith, **R. Gutman**, B. Kohler, M.S. Duprey, S.D. Berry, M.N. Munshi, D.D. Dore, Journal of the American Geriatrics Society, 69 (10), 2923-2930, 2021.
- [57] Short-term impact of nursing home SARS-CoV-2 vaccinations on new infections, hospitalizations, and deaths, V. Mor, R. Gutman, X. Yang, E.M. White, K.W. McConeghy, R.A. Feifer, C.R. Blackman, C.M. Kosar, B.H. Bardenheier, S.A. Gravenstein, Journal of the American Geriatrics Society, 69 (8), 2063–2069, 2021.
- [58] Association of Inclusion of Medicare Advantage Patients in Hospitals' Risk-Standardized Readmission Rates, Performance, and Penalty Status, O.A. Panagiotou, K.R. Voorhies, L.M. Keohane, D. Adhikari, A. Kumar, M. Rivera-Hernandez, M. Rahman, P. Gozalo, R. Gutman, V. Mor, A.N. Trivedi, JAMA network open, 4 (2), e2037320-e2037320, 2021.
- [59] Successful Community Discharge Among Older Adults with Traumatic Brain Injury in Skilled Nursing Facilities, E. Evans, R. Gutman, L. Resnik, M. Zonfrillo, S. Lueckel, R.G. Kumar, F. DeVone, K. Dams-O'connor, K.S. Thomas, Journal of Head Trauma Rehabilitation, 36 (3), E186-E198, 2021.

- [60] Evaluation of Changes in Veterans Affairs Medical Centers' Mortality Rates After Risk Adjustment for Socioeconomic Status, A.N. Trivedi, L. Jiang, *G.C. Silva, W. Wu, V. Mor, M.J. Fine, N.R. Kressin, R. Gutman, JAMA Network Open, 3 (12), e2024345-e2024345, 2020.
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- [67] A New Data Resource to Examine Meals on Wheels Clients' Healthcare Utilization and Costs, M. Shan*, R. Gutman, D. Dosa, P. L. Gozalo, J.A. Ogarek, S. Kler, K. S. Thomas, Medical Care, 57(3):e15-e21, 2019.
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 *J.K. Roydhouse, R. Gutman, N. Keating, V. Mor, I. Wilson, Heath Services Research, 53(5):3809-3824, 2018
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- [77] Persistent pain after motor vehicle crash: Comparative effectiveness of opioid analysics versus nonsteroidal anti-inflammatory drugs prescribed from the emergency department - A propensity matched analysis, *F. Beaudoin, **R. Gutman**, R.C Merchant, M.A Clark, R. Swor, J. Jones, D. Lee, D. Peak, R. Domeier, N. Rathlev, S.A McLean, PAIN, 158(2):289-295, 2017.
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- [81] Systematic Assessment of Linkage to Care for Persons with HIV Released from Corrections Facilities Using Existing Datasets, B.T. Montague, D.L. Rosen, C. Sammartino, M. Costa, R. Gutman, L. Solomon, J.D. Rich, AIDS Patient Care and STDs, 30(2), 84-91, 2016.
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Non-Refereed Publications

- [94] The Many Tentacles of Estimands in HEOR From PROs to RWD, J. Roydhouse, R. Gutman, P. Mishra-Kalyani, S. Manson ISPOR, Value & Outcomes Spotlight. 2022.
- [95] Combining Inexactly-Matched Datasets to Analyze End-of-Life Medical Costs, R. Gutman, A.M. Zaslavsky, In JSM Proceedings, Section on Bayesian Statistical Science. Alexandria, VA: American Statistical Association. 2009.
- [96] Improved Multiple Test Procedures for Discrete Distributions: New Ideas and Analytical Review., R. Gutman, M.Sc. Thesis Faculty of Exact Sciences, School of Mathematics, Tel Aviv University, Tel Aviv, Israel, 2004.

Submitted and In Preparation

[97] A Bayesian Record Linkage Approach that Adjusts for Variables in One File, *G. Kamat, *M. Shan, R. Gutman, (Statistics in Medicine)

- [98] Multiple imputation of missing race/ethnicity information in the National Assisted Reproductive Technology Surveillance System, Y. Zhang, D.M. Kissin, K.J. Liao, C.E. DeSantis, A.K. Yartel, R. Gutman, (Population Health Metrics)
- [99] Causal Inference with cross-temporal design, *Y. Cao, P. Gozalo, R. Gutman, In preparation.
- [100] Combining Predictive Mean Matching with the Penalized Spline of Propensity Prediction for Multiple Imputation, *J. Xu, R. Gutman, In preparation.

Presentations

Invited Talks

- 2023 A Bayesian Multi-Layered Record Linkage Procedure to Analyze Functional Status of Medicare Patients with Traumatic Brain Injury, R. Gutman, International Conference on Health Policy Statistics, Scottsdale, AZ (January 2023).
- 2022 Bayesian Procedures for File Linking with Application to Health Services Research, R. Gutman, MDI and the ASA Record Linkage Interest Group's Linkage Seminar Series, (April 2022).
- 2022 Bayesian Procedures for File Linking with Application to Health Services Research, R. Gutman, Boston University Biostatistics Seminar Series, (March 2022).
- 2021 Combining Item Response Theory with Multiple Imputation to Equate Health Assessment Questionnaires, R. Gutman, The 34th New England Statistical Symposium, (October 2021).
- 2021 A multiple imputation procedure for record linkage and causal inference to estimate the effects of home-delivered meals, R. Gutman, The Society for Applied Pharmacological Studies Italian Biostatistics Group Forum, (September 2021).
- 2021 The Many Tentacles of Estimands- Patient-Reported Outcomes, Real-World Evidence, Health Economics and Outcomes Research, and Beyond, R. Gutman, J. Roydhouse, S. Manson, P.S. Mishra-Kalyani, Virtual ISPOR, (May 2021).
- 2021 Dyadic Designs versus Proxy Reported Outcomes, J. Monin, K. Newkirk, R. Gutman, Z. Baker, IMPACT Collaboratory Annual Meeting, (April 2021).
- 2020 A Bayesian Multi-Layered Record Linkage Procedure to Analyze Functional Status of Medicare Patients with Traumatic Brain Injury, R. Gutman, Joint Statistical Meeting, Philadelphia, PA (August 2020).
- 2019 Estimating the effects of Meals on Wheels through Linkage to Claims Data Sources, R. Gutman, Pfizer Knowledge Forum on Novel Analytical Methods, New York City, NY (November 2019).
- 2019 Optimal Sample Size for Cluster Randomized Trials: A Simulation-Based Search Algorithm, R. Gutman, Design and Analysis of Experiments Conference, Knoxville, TN (October 2019).
- 2019 Comparing Multiple Treatments in Observational Studies with Application to Type 2 Diabetes Treatment Regimens, R. Gutman, PCORI Annual Meeting, Washington, DC (September 2019).
- 2019 Approximate Bayesian Bootstrap Procedures to Estimate Multilevel Treatment in Observational Studies with Application to Type 2 Diabetes Treatment Regimens, R. Gutman, Joint Statistical Meeting, Denver, CO (August 2019).
- 2019 Discussion Gaining Insights from Multiple Data Sources, R. Gutman, Academy Health Annual Research Meeting, Washington, DC (June 2019).
- 2019 Bayesian Procedure for File Linking with Application to Health Services Research, R. Gutman, Putting the Pieces Together: Promise, Programs and Pitfalls in Linking Historical and Contemporary Records, Northwestern University, Evanston, IL (May 2019).
- 2019 Panel Discussant: Measurement and data: Outcomes, exposures, and subgroups based on EHR data, R. Gutman, Design & Analysis of Embedded Pragmatic Clinical Trials Workshop., Bethesda, MD (May 2019).
- 2019 Multiple Imputation Procedure for Record Linkage and Causal Inference to Estimate the Effects of Home-delivered Meals, R. Gutman, Models and Machine Learning for Causal Inference and Decision Making in Health Research, Providence, RI (January 2019).
- 2018 Estimating the Effects of Health and Medical Interventions using Multiple Imputations and File Linking Techniques, R. Gutman, Advance-CTR Statistical Methods in Translational Science Symposium, Providence, RI (June 2018).

- 2018 Lightning Introduction to Casual Inference, R. Gutman, Advance-CTR Statistical Methods in Translational Science Symposium, Providence, RI (June 2018).
- 2018 Bayesian Procedures for File Linking with Application to Health Services Research, R. Gutman, Department of Industrial Engineering and Management, Ben Gurion University of the Negev, Beer-Sheva, Israel (June 2018).
- 2018 Robust Estimation of Causal Effects to Evaluate the Effects of Opioids versus NSAIDS on Persistent Pain, R. Gutman, Israeli Statistical Association 2018, Weizmann Institute of Science, Israel (May 2018).
- 2018 Estimating the effects of Meals on Wheels through Linkage to Claims Data Sources, R. Gutman, ICHPS 2018, Charleston, SC (Jan 2018).
- 2017 Is Medical Foster Care a cost-effective substitute for Nursing Home Care?, R. Gutman & C. Levi, HERC Health Economics Seminar, Cyberseminar (Sep 2017).
- 2017 Combining IRT with Multiple Imputation to Crosswalk between Health Assessment Questionnaires, R. Gutman, 9th meeting of the Eastern Mediterranean Region of the International Biometric Society (EMR-IBS), Thessaloniki, Greece (May 2017).
- 2017 Combining IRT with Multiple Imputation to Crosswalk between Health Assessment Questionnaires, R. Gutman, ENAR, Washington, DC (March 2017).
- 2017 Beyond Difference-in-Differences A Bayesian Procedure to Estimate the Effects of Nursing Home Bed-Hold Policies, R. Gutman, Department of Statistics and Operation Research, School of Mathematics, Tel Aviv University, Tel Aviv, Israel (January 2017).
- 2016 Combining IRT with Multiple Imputation to Crosswalk between Health Assessment Questionnaires, R. Gutman, Joint Statistical Meeting, Chicago, IL (August 2016).
- 2016 Causal Inference in Health-care Studies with Multiple Treatments, R. Gutman, Academy Health Annual Research Meeting, Boston, MA (June 2016).
- 2016 Combining IRT with Multiple Imputation to Crosswalk between Health Assessment Questionnaires, R. Gutman, International Chinese Statistical Association, Atlanta, GA (June 2016).
- 2016 Beyond Difference-in-Difference to Analyze Changes in Bed-Hold Policy for Nursing Homes, R. Gutman, New England Statistical Symposium, New Haven, CT (April 2016).
- 2016 Bayesian Procedures for File Linking with Application to Health Services Research, R. Gutman, Working Group on Statistical Methods in Epidemiology at Harvard School of Public Health, Dept. of Biostatistics, Harvard University, Boston, MA (March 2016).
- 2015 Error Adjustments for File-Linking Methods Using Encrypted Unique Client Identifier (eUCI) with Application to Recently Released HIV+ Prisoners, R. Gutman, International Conference for Health Policy Statistics, Providence, RI (October 2015).
- 2015 Robust Estimation of Causal Effects with Application to Erythropoiesis-stimulating Agents for Endstage Renal Disease, R. Gutman, Quantitative Methods Core Methods Seminar, University of Massachusetts Medical School, Worcester, MA (September 2015).
- 2015 Nationwide Surveillance of Linkage to HIV Care on Release from Corrections, Josiah Rich, Brian Montague, R. Gutman, **Bureau of Justice Statistics & HRSA HIV/AIDS Bureau**, Washington DC & Rockville MD, USA (April 2015).
- 2015 Robust Estimation of Causal Effects with Application to Erythropoiesis-stimulating Agents for End-stage Renal Disease, R. Gutman, The Department of Epidemiology, Biostatistics and Occupational Health, McGill University, Montreal, Canada (March 2015).
- 2014 Discussion: The Effect of Jurisdictional Competition for Corporate Charters on Financial accounting Measures of Firm Performance, R. Gutman, Journal of Law, Finance & Accounting, NYU, NY, USA (September 2014).
- 2014 Beyond Difference-in-Difference to Analyze Changes in Bed-Hold Policy for Nursing Homes, R. Gutman, Joint Statistical Meeting, Boston, MA, USA (August 2014).
- 2014 Full Bayesian Procedure for File Linking to Analyze End-of-Life Medical Costs, R. Gutman, Computational Methods for Survey and Census Data in the Social Sciences, Centre de recherches mathématiques, Université de Montréal, Montreal, Canada (June 2014).
- 2014 Beyond Difference-in-Difference to Analyze Changes in Bed-Hold Policy for Nursing Homes, R. Gutman, Atlantic Causal Inference Conference, Brown University, RI, USA (May 2014).

- 2014 Robust Estimation of Causal Effects of Erythropoiesis-stimulating Agents (ESAs) on Mortality, R. Gutman, ENAR, Baltimore, MD, USA (March 2014).
- 2014 Full Bayesian Procedure for File Linking to Analyze End-of-Life Medical Costs, R. Gutman, SAMSI, Computational Methods for Censuses and Surveys, Washington, DC, USA (January 2014).
- 2013 Robust Estimation of Causal Effects with Application to Erythropoiesis-stimulating Agents for Endstage Renal Disease, R. Gutman, **Department of Statistical Science**, Duke University, NC, USA (November 2013).
- 2013 Analyses That Inform Policy Decisions Are, De Facto, Causal, R. Gutman, Joint Statistical Meeting, Montreal Canada (August 2013).
- 2013 A robust outcome-free procedure for interval estimation of causal effects, R. Gutman, **15th IMS New Researchers Conference**, Montreal Canada (August 2013).
- 2013 Robust Estimation of Causal Effects of Erythropoiesis-Stimulating Agents on Mortality, R. Gutman, 7th meeting of the Eastern Mediterranean Region of the International Biometric Society (EMR-IBS), Tel Aviv, Israel (April 2013)
- 2013 A Robust Outcome-Free Procedure for Interval Estimation of Causal Effects, R. Gutman, Department of Statistics, University of Waterloo, ON, Canada (March 2013).
- 2012 An Outcome-Free Procedure for Interval Estimation of Causal Effects, R. Gutman, **Department of Statistics**, University of Connecticut, CT, USA (October 2012).
- 2011 An Outcome-Free Procedure for Interval Estimation of Causal Effects, R. Gutman, **Department of Biostatistics (Environmental Statistics Seminar)**, Harvard University, MA, USA (November 2011).

Contributed Talks Presented by Me

- 2012 A Robust Outcome-free Procedure for Interval Estimation of Causal Effects, R. Gutman and D.B. Rubin, International Society for Bayesian Analysis World Meeting, Kyoto, Japan (June 2012).
- 2010 Full Bayesian Procedure for File Linking to Analyze End-of-Life Medical Costs, R. Gutman and A.M. Zaslavsky, Joint Statistical Meeting, Washington, DC, USA (August 2010).
- 2009 Combining Inexactly-Matched Data Sets to Analyze End-of-Life Medical Costs, R. Gutman and A.M. Zaslavsky, Joint Statistical Meeting, Washington, DC, USA (August 2009).
- 2008 Rasch and Mixture of Generalized Linear Mixed Models for Analysis of Aphasic Deficits of Syntactic Comprehension, R. Gutman, G. DeDe, D. Caplan and J.S. Liu, Joint Statistical Meeting, Denver, Colorado, USA (August 2008).

Short Courses

- 2023 Estimating Correlations and Causal Relationships with Linked Data Sources, R. Gutman, International Conference on Health Policy Statistics, Scottsdale, AZ (Jan 2023).
- 2020 Estimating Causal and Causal Relationships with Linked Data Sources, R. Gutman, International Conference on Health Policy Statistics, San Diego, CA (Jan 2020).
- 2016 Introduction to Causal Inference in Medicine and Health Service Research, R. Gutman, Evidence Synthesis Academy, Providence, RI (May 2016).
- 2015 Causal Inference in Healthcare Studies with Multiple Treatments, R. Gutman and M.J Lopez, International Conference on Health Policy Statistics, Providence, RI (October 2015).
- 2012 Causality 101: Instrumental Variables and Principal Stratification, R. Gutman, Department of Biostatistics, The Brown University ARCH Summer Research Workshop (July 2012).

Poster Presentation

- 2016 Combining IRT with Multiple Imputation to Crosswalk between Health Assessment Questionnaires, R. Gutman, Academy Health Annual Research Meeting, Boston, MA (June 2016).
- 2012 An Outcome-Free Procedure for Interval Estimation of Causal Effects, R. Gutman, and D.B. Rubin, Workshop on Causal Inference and Graphical Models, Department of Statistics, University of Florida, January (2012).

Talks Presented by Others

- 2019 Multiple Imputation Procedure for Record Linkage and Causal Inference to Estimate the Effects of Home-Delivered Meals, M. Shan, K. Thomas, R. Gutman, Joint Statistical Meeting, Denver, CO, USA (August 2019).
- 2017 Power and Money: Optimal Sample Size for Cluster Randomized Trials Based on the Randomization Distribution, R. Zhai, R. Gutman, BIOSTATMCW, Milwaukee, WI, USA (September 2017).
- 2016 Using Machine Learning Algorithms for Handling Missingness: Application to Predicting Drug-Disease and Drug-Drug Interactions, R. Zhai, R. Gutman, Joint Statistical Meeting, Chicago, IL, USA (August 2016).
- 2016 Bayesian Multiple Imputation Procedures to Equate Health Assessment Questionnaires, C. Gu, R. Gutman, Joint Statistical Meeting, Chicago, IL, USA (August 2016).
- 2014 Matching to Estimate the Causal Effects from Multiple Treatments, M. Lopez, R. Gutman, Joint Statistical Meeting, Boston, MA, USA (August 2014).
- 2013 Estimating the Average Treatment Effects of Nutritional Label Use Using Subclassification with Regression Adjustment, M. Lopez, R. Gutman, Joint Statistical Meeting, Montreal, Canada (August 2013).
- 2012 Nutritional label use and causal effects on body mass index, M. Lopez, R. Gutman, New England Statistical Symposium, Boston University, Boston, MA, USA (April 2012).
- 2008 Rasch Models of Aphasic Deficits of Syntactic Comprehension, D. Caplan, G. DeDe, R. Gutman, J.S. Liu and G. Waters, Clinical Aphasiology Conference, Teton Village, WY, USA (May 2008).
- 2007 "Gloves and Socks" Melanoma: Does Histology Make a Difference?, E. Soudry, H. Gutman, M. Feinmesser, R. Gutman and J. Schachter, The Society of Surgical Oncology's 60th Annual Cancer Symposium, Washington, DC, USA (March 2007).
- 2003 Impaired Platelet Aggregation in Melanoma Patients Treated with INF-α-2b Adjuvant Therapy, H. Gutman, J. Schachter, E. Stopel, R. Gutman and J. Lahav, Research Fair, Sackler Faculty of Medicine, Tel Aviv University, Tel Aviv, Israel (April 2003).
- 2002 Patients with Melanoma Given INF-α-2b Adjuvant Therapy Have Impaired Aggregation of Platelets., H. Gutman, J. Schachter, E. Stopel, R. Gutman and J. Lahav, The 7th World Congress on Advances in Oncology, and 5th International Symposium on Molecular Medicine, Hersonissos, Crete, Greece (October 2002).

Research Grants (PI are in bold)

Active

[1] Improving PCOR/CER Study Methodologies in Studies with Different Respondent Types Using IRT

Role: **Co-PI** Agency: PCORI

Period: 11/01/2022 -10/31/2025

Amount:\$931,657

[2] Improving CER/PCOR Methods for Analyzing Linked Data Sources in the Absence of Unique Identifier

Role: **PI** Agency: PCORI

Period: 12/01/18-09/31/22

Amount:\$728,016

[3] Outcomes Associated with Significant Incidental Findings in Lung Cancer Screening

Role: Co-investigator

Project PI:Gareen Agency: NCI

Period: 03/17/17-02/28/22

Amount: \$1,254,419

[4] Lung Screening: Efficacy versus Effectiveness

Role: Co-investigator

Project PI:Gareen Agency: NCI

Period: 01/01/18-12/31/23

Amount: \$403,582

[5] METRIcAL – Music & Memory: a Pragmatic TRIal for Nursing Home Residents with ALzheimer's Disease

Role: Investigator

Project PI:Mor Agency: NIA

Period: 09/15/17-08/31/22

Amount: \$399,984

[6] Next Generation Machine Vision for Automated Behavioral Phenotyping of Knock-in ALS-FTD Mouse Models

Role: Co-investigator

Project PI:Fallon Agency: NINDS

Period: 04/01/2020 - 03/31/2022

Amount: \$446,875

[7] New IDEAS: Imaging Dementia - Evidence for Amyloid Scanning Study: A Study to Improve Precision in Amyloid PET Coverage and Patient Care

Role: Investigator Project PI:Gatsonis Agency: ACR

Period: 07/01/2020 - 12/31/2024

Amount: \$1,770.341

[8] Developing an Analytic Resource for Efficiently Linking EA Participants to Medicare data to identify patients with Alzheimer's disease and its related dementias (DAREtoLEAP)

Role: Investigator Project PI:Schnall Agency: NCI

Period: 08/01/2021 - 07/31/2022

Amount: \$296,089

[9] Home-delivered meals for persons with dementia: Which model delays nursing home placement?

Role: Study Statistician

Project PI:Thomas Agency: NIA

Period: 09/30/2020 - 08/31/2025

Amount: \$823,497

[10] Safe Cardiometabolic Drug Prescribing to Prevent Injury in the Nursing Home

Role: Co-investigator

Project PI: Berry

Subcontract:Hebrew Senior Life-Harvard

Period: 07/15/19-02/28/23

[11] NIA AD/ADRD Health Care Systems Research Collaboratory

Role: Design and Statistics Core executive committee member

Project PI:Mor, Mitchell

Agency: NIA

Period: 09/01/19-06/30/24

Amount: \$7,035,838

[12] The Impact of Cost Sharing on Medication Adherence in the MHS for both Non-retirees and Retirees

Role: Co-investigator

Project PI:Wilson Agency: DoD

Period: 09/01/19-08/31/21

Amount: \$1,837,151

[13] Alzheimer's Disease and Related Disorders Treatment and Outcomes in America: Changing Policies and Systems

Role: Core C Investigator

Project PI:Mor, Trivedi

Agency: NIA

Period: 04/01/19-03/31/24

Amount: \$28,402,016

Pending

[14] Returning home after TBI: Informing effective post-acute care for older adults with TBI

Role: Co-investigator

Project PI:Evans Agency: NIH

Period: 04/01/2022 - 03/31/2024

Amount: \$420,731

[15] Health care processes, outcomes, and costs for aging Medicare beneficiaries with HIV: a national, longitudinal (2007-2020) comparison using rigorously selected HIV-negative controls

Role: Co-investigator

Project PI:Wilson Agency: NIA

Period: 04/01/2022 -03/31/2027

Amount: \$3,912,365

Completed

[16] Effect of a COVID-specific advance care planning intervention on documentation of advance directives and goals of care

Role: Co-investigator Project PI:Mor, Mitchell

Agency: NIA

Period: 08/11/2020 - 06/30/2021

Amount: \$242,130

[17] Opioid use in Post-acute Hip Fracture Care: Prescribing patterns, effectiveness, and safety

Role: Co-investigator Project PI:Zullo, Beaudoin

Agency: NIH

Period: 9/1/18-8/31/20 Amount: \$168,712

[18] Comparing Glycemic Profiles in Pregnancy and Maternal and Child Health Outcomes

Role: Statistician Project PI:Werner Agency: NIH

Period: 12/01/19-11/30/24

Amount: \$335,367

[19] Caregivers' Reactions and Experience: Imaging Dementia Evidence for Amyloid Scanning

Role: Co-investigator

Project PI:Wetle Agency: NIA

Period: 09/15/17-05/31/21

Amount: \$680,589

[20] Imaging Dementia-Evidence for Amyloid Scanning (IDEAS) Study

Role: Investigator Project PI:Gatsonis

Agency: ACR

Period: 06/01/15-06/30/20

Amount: \$802,165

[21] Pragmatic Trial of Video Intervention for Advance Care Planning in Nursing Homes

Role: Investigator

Project PI:Mor

Agency: UH2/UH3/NIH Period: 08/15/14-05/31/20

Amount: \$2,920,367

[22] Claude D. Pepper Older Americans Independence Center at Yale

Role: Brown subcontract PI

Project PI:Allore Agency: NIA

Period: 10/01/18-06/30/20

Amount: \$61,535

[23] Innovative Approaches to Examine Post-Acute Care Outcomes of Older Adults with Traumatic Brain Injury

Role: **Co-PI** Agency: NIA

Period: 10/1/18 - 3/31/20

Amount: \$285,308

[24] Implementing and Evaluating INTERACT in VA CLCs

Role: Brown Subcontract

Project PI:Mor Agency: VA

Period: 4/1/13-3/31/16

Amount: \$454,321

[25] Center of Innovation (COIN), Long-term Services and Supports for Vulnerable Veterans

Role: Brown Subcontract

Project PI:Mor Agency: VA

Period: 10/01/13 - 09/30/18

[26] Researcher Training and Workforce Development in Methods and Standards for Conducting Patient Centered Outcomes

Role: Investigator Project PI:Schmid Agency: AHRQ

Period: 06/01/14 - 05/31/19

Amount: \$272,305

[27] Effectiveness of Medicaid's Home- and Community-Based Services for Persons with Multiple Sclerosis

Role: Investigator Project PI:Shireman

Agency: National Multiple Sclerosis Society

Period: 10/1/2014 - 9/30/2017

Amount: \$560.861

[28] Medicaid Managed Care and the Quality of Care for Women and Children: Evaluating a Randomized Trial of Enrollment in a Medicaid-Focused or Commercial Health Insurance Plan

Role: Investigator Project PI:Trivedi Agency: HRSA

Period: 4/1/15 - 3/31/18

Amount: \$594,648

[29] Changing Long Term Care in America: Policies, Markets, Strategies, and Outcomes

Role: Investigator

Project PI:Mor Agency: NIA

Period: 12/1/13 - 11/30/18

Amount: \$5,149,670

[30] Aging, comorbid conditions, and health care utilization in persons with HIV

Role: Investigator Project PI:Wilson Agency: NIMH

Period: 04/01/14 - 03/31/18

Amount: \$1,999,264

[31] Effect of Iatrogenic Delivery at 34-38 Weeks' Gestation on Pregnancy Outcome

Role: Investigator Project PI:Savitz

Agency: WIH/NICHHD Period: 05/01/14 - 04/30/19

Amount: \$105,612

32] Estimation of Multi-Treatment Effects from Observational Data with Application to Diabetes Mellitus

Role: **PI**Agency: PCORI

Period: 02/1/15 - 02/01/19

Amount: \$700,000

[33] Merging National Hospital Trauma Registry Data with Medicare Claims and Post-Acute Care Patient Assessments to Examine Predictors of Functional Improvement among Older Adults with Traumatic Brain Injury

Role: Co-PI

Agency: Advanced-CTR Period: 08/1/17 - 08/1/18

Amount: \$74,924

[34] Improving Linkage to HIV Care Following Release from Incarceration (LINCS)

Role: Investigator Project PI:Judy Rich

Agency: NIH/The Miriam Hospital Period: 11/01/12 - 06/30/15

[35] Geriatric Extended Care Data Analysis Center (GEC DAC)

Role: Brown Subcontract Project PI:Orna Intrator

Agency: VA

Period: 7/1/11-8/31/13

[36] QuBBD: Estimating drug-drug and drug-disease interactions for nursing homes residents

Role: **PI** Agency: NSF

Period: 09/15/15 - 08/30/17

Amount: \$99,998

Service Activities

University Services

2022-2022 Member, School of Public Health Senior Faculty in Health Data Science Search Committee, Brown University

2021-present Member, Brown University University Resource Committee

2017-2019 Member, Brown University College Curriculum Committee

2013-2020 Member, Department of Biostatistics PhD Admission Committee

2012-present Director, Undergraduate Concentration in Statistics

2012-present Member, Department of Biostatistics Curriculum Committee

- 2011-2020 Member, School of Public Health MPH Admission Committee
- 2015,2018,2019 Member, Faculty Search Committee, Department of Biostatistics
 - 2013-2015 Member, School of Public Health Curriculum Committee
 - 2012-2019 Member, SPH Undergraduate Studies Committee
 - 2011-2017 Member, Department of Biostatistics Web Committee
 - 2011-2013 Member, Department of Biostatistics Master graduate Admission Committee

Professional Services

- 2022 Chair Elect American Statistical Association Record Linkage Interest Group
- 2022 Congressionally Directed Medical Research Program (CDMRP), Detection, Diagnosis, and Prognosis-1 (DDP-1) panel of the Traumatic Brain Injury and Psychological Health Research Program (TBIPHRP) grant reviewer
- 2022–present $\,$ Member Academy Health - Health Economics Interest Group
 - 2021–2022 Statistician NIA Data and Safety Monitoring Board (DSMB) for a R61 study (AG070265-01)
- 2020-present Associate Editor Population Health Metrics
- 2019-present Member New England Rare Disease Statistics Workshop organizing committee
 - 2019–2021 Member The National Academy of Sciences Engineering and Medicine Committee on Developing a Behavioral and Social Science Research Agenda on Alzheimer's and Alzheimer's-Related Dementias
 - 2021 NHLBI Single-Site and Pilot Clinical Trials Study Section (SSPT) panel reviewer
- 2020,2021,2022 The Donaghue Foundation Another Look statistical reviewer
 - 2020 NIH Biostatistical Methods and Research Design (BMRD) Study Section panel reviewer
 - 2019 DME Medicare Administrative Contractors Contractor Advisory Committee (CAC) on Topical Oxygen Therapy
 - 2019-2020 Chair Student Committee ICHPS 2020
 - 2018 Local organizing committee StatFest 2018
 - 2018 Organizer invited session ICHPS 2018, Linking Registries and other Clinical and Administrative Data to Enhance Comparative Effectiveness Research
 - 2019 Program Chair Health Policy Statics Section, American Statistical Association
 - 2018,2021 NIH/NHLBI Summer Institute for Research Education in Biostatistics (R25) panel reviewer
 - 2018 PCORI Assessment of Prevention, Diagnosis, and Treatment Options PCORI funding announcement, grant reviewer
- 2017–present Associate Editor PLOS 1
 - 2017–2022 Board Member New England Statistical Society
- 2017-present Editorial Board Statistical Method in Medical Research
- 2017-present PCORI Methods Consultant
- 2016–present PCORI Methods to Improve PCOR studies review panel, PCORnet Phase 3, Phased Large Awards in Comparative Effectiveness Research (PLACER) grant reviewer
 - 2016 Congressionally Directed Medical Research Programs (CDMRP) Orthotics and Prosthetics Outcomes Research Program grant reviewer
 - 2015 Organizer invited session ICHPS 2015, Linking Records from Different Sources in Health-care Applications
 - 2015 Chair of the local organizing committee of ICHPS, Providence, RI, 2015
 - 2014,2016 NSF Ad-hoc grant reviewer
 - 2014 Organizer invited session JSM 2014, Recent Advances in Causal Inference Methods for Health Policy and Services Research
 - 2014 Committee member Atlantic Causal Inference Conference, Brown University, Providence, RI, 2014

2011-present Peer Reviewer. Annals of Applied Statistics, Annals of Epidemiology, Bayesian Statistics, Biometrics, Biometrika, BMC Bioinformatics, BMC Research Notes, BMJ Open, Circulation, Computational and Graphical Statistics, Educational Researcher, Epidemiology, Guilford Press, Health Services and Outcomes Research Methodology, Health Informatics Journal, Health Services Research, IIE Transactions, International Journal of Epidemiology, JAMDA, Journal of Applied Statistics, Journal of the American Statistical Association, Journal of the Royal Statistical Society: Series A, Journal of Survey Statistics and Methodology, PLOS ONE, Quality of Life Research, Radiology, Research Synthesis Methods, Statistics in Medicine, Statistica Sinica, The Social Science Journal.

Academic and Professional Awards & Fellowships

- 2022 ISPOR Health Economics Outcomes and Research Methodology Award
- 2022 ASA/NSF/BLS Senior Research Fellow
- 2020 Brown University School of Public Health Award for Excellence in Research Collaboration
- 2018-2020 Brown University Faculty Advising Fellow
 - 2013 Brown University Richard B. Salomon Faculty Research Awards
 - 2010 JSM Student Award, Section on Health Policy Statistics, American Statistical Association
 - 2007 Harvard University Derek Bok Center, Certificate of Distinction in Teaching of Undergraduates
 - 2006 The James Mills Pierce Fellowship, Graduate School of Arts and Sciences, Harvard University
- 2001,2002,2005 Excellent Officer Award, Israel Defense Forces
 - 2002 Excellence Award Teaching Assistant, School of Mathematics, Faculty of Exact Sciences, Tel Aviv University
 - The Nimrod Lapid Award for Excellence of B.Sc. Students in Statistics, School of Mathematics, Faculty of Exact Sciences, Tel Aviv University
 - Dean's Excellence Award in Statistics, Operation Research and Computer Science. School of Mathematics, Faculty of Exact Sciences, Tel Aviv University

Memberships

2022–present ISPOR

2017-present New England Statistical Society

2016-present AcademyHealth

2012–2013 International Society for Bayesian Analysis

2007-present American Statistical Association

2009–2011 Institution of Mathematical Statistics

2004–2006 Associate Member of the Ben-Tal Bioinformatics Group, Biochemistry Department, Tel Aviv University

2001–2004 Member of the False Discovery Rate group, Faculty of Exact Sciences, School of Mathematics, Tel Aviv University

Teaching

Courses Taught

Spring 2021 Guest Lecture, Causal Inference by Imputation with Application to Health Services Research.

-Yau Mathematical Sciences Center, Tsinghua University

Spring 2015, Guest Lecture, Causal Inference in Health Services Research.

2017

-Statistics 186. Statistical Methods for Evaluating Causal Effects, Harvard University, Cambridge,

Fall 2014 - Instructor.

2021

-PHP 1501 (58, 68, 73, 85, 64, 75, 96, 99): Essentials of Data Analysis

Fall 2014 Co-Instructor.

-PHP 0100 (7): Statistics is Everywhere

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Spring 2014, Co-Instructor.
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 $2015,\ 2016,$

2017

-EMHL 2030 (28, 30, 21, 15): Data Driven Decision Making

Spring 2014 Instructor.

-PHP 2511 (25): Applied Regression Methods

2011–2013, **Instructor**.

2015.

2017-2020,

2022

-PHP 2530 (5, 15, 5, 20, 7, 13, 28): Bayesian Statistical Methods

Spring 2013 Instructor.

-PHP 2540 (5): Advanced Methods for Multivariate Analysis

2007–2011 **Teaching Fellow**, Harvard University, Department of Statistics.

-Stat 110: Introduction to Probability

-Stat 111: Introduction to Stochastic Processes

-Stat 220: Bayesian Data Analysis

-Stat 221: Statistical Computing Methods and Learning

-Stat 249/149: Statistical Sleuthing through Generalized Linear Models

Master's Theses/Projects Directed

- 2012 Ye Xu, Comparison of the Procedures for Estimation of Causal Effects.
- 2013 Elizabeth Piette (Public Health), Attempting to Use Causal Inference Methods to Profile Health Providers.
- 2014 **Anja Zgodic**, Possible Pitfalls of Cumulative Sum Charts and Funnel Plots in Monitoring Clinical Performance and Outcomes.
- 2016 Valerie Langberg, Sample Size Calculation for Cluster Randomized Trials Based on the Randomization Distribution.
- 2017 Chang Chen, Comparative Outcomes of Treatment Regimens in Waldenstrom Macroglobulinemia.
- 2020 Frank DeVone, Power Prior Distribution for Bayesian Record Linkage.
- 2021 Abigail Foley, A Comparison of Prediction Methods under Different Extrapolation Schemes.
- 2022 Yezhi Pan, Effect of Co-prescribing Benzodiazepines and Opioid Analgesics Among Older Cancer Patients.

Ph.D. Theses Supervised (as Primary or Sole Advisor)

- 2014 **Michael Lopez**, Causal Inference for Multiple Treatments, Current Position: Director of Data and Analytics at the National Football League.
- 2016 **Chenyang Gu**, Statistical Missing Data Methods with Applications to Health Services Research, Current Position: Biopharma Equity Research at Goldman Sachs.
- 2018 **Anthony Scotina**, Estimation of Multi-Treatment Effects from Observational Data with Applications to Type 2 Diabetes Mellitus, Current Position: Senior Statistician at Koneksa Health.
- 2019 Mingyang Shan, Record Linkage and Causal Inference with Applications to Health Services Research, Current Position: Research Scientist - Senior Research Scientist - Real World Analytics at Eli Lilly and Company.
- 2020 Ruoshui Zhai, Multiple Imputation and Computational Methods for Design and Analysis of Cluster Randomized Trials, Current Position: Senior Data Scientist at Boston Consulting Group.
- 2021 **Gabriella Silva**, Addressing Statistical Issues in Provider Profiling, Current Position: Blue Cross Blue Shield of Massachusetts.
- 2022 **Yi Cao**, Addressing Missing Data and Causal Inference for Time-varying Data, Current Position: Postdoctoral Research Fellow Fred Hutch.

Current PhD Students

- -Jerson Cochancela
- -Anthony Sisti

- -Patrick Gravelle
- -Gauri Kamat
- -Jennifer Scodes

PhD Committee Member

- -Dana Udwin (Biostatistics 2022)
- -Nana Boame (Epidemiology 2022)
- -Jessica Roydhouse (HSPP 2017)
- -Francesca Beaudoin (Epidemiology 2017)
- -Andrew Zullo (HSPP 2017)
- -Kristen McCausland (Epidemiology 2017)

Graduated Masters Students

- -Russell Forman (Biostatistics) (2013)
- -Bin Lin (Biostatistics) (2014)
- -Chieh Chu (Biostatistics) (2014)
- -Yinan Zhang (Biostatistics) (2014)

Undergraduate Thesis Supervised

- -Jay J. Xu (Statistics) (2015)
- -Kavia Khosla (Public Health) (2016)
- -Brian Gilbert (Statistics) (2018)
- -Edwin Farely (Applied Mathematics) (2019)
- -Nicholas Pellegrino (Statistics) (2021)
- -Rohan Gupta (Applied Mathematics) (2022)

Updated: 10/15/2022