

Iman Jaljuli
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Contact Info

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Positions

Sep/2023*-present *Research Fellow in Statistical Genomics, Stanford University*

Supervisors: Prof. Stephen B. Montgomery, Prof. Chiara Sabatti

* Maternity leave Sep/2024-Dec/2024

Aug/2022*-Sep/2023 *Research Fellow in Biostatistics, Memorial Sloan Kettering Cancer Center*

Supervisor: Dr. Li-Xuan Qin

* Maternity leave Oct/2022-Jan/2023

Education

2016-2022 *Ph.D in Statistics, Direct track, Tel-Aviv University*

Thesis: Statistical Approaches for Assessing and Enhancing Replicability

Advisor: Yoav Benjamini

Award date: April, 2023

2011-2015 *Bachelor of Mathematics and Statistics, Tel-Aviv University*

Publications

Under Review/Revision

- Marianne K DeGorter, Page C Goddard, Emre Karakoc, Soumya Kundu, Stephanie M Yan, Daniel Nachun, Nathan Abell, Matthew Aguirre, Tommy Carstensen, Ziwei Chen, Matthew Durrant, Vikranth R Dwaracherla, Karen Feng, Michael J Gloudemans, Naiomi Hunter, **Iman Jaljuli**, Mohana P S Moorthy, Cristina Pomilla, Kameron B Rodrigues, Courtney J Smith, Kevin S Smith, Rachel A Ungar, Brunilda Balliu, Jacques Fellay, Paul Flicek, Paul J McLaren, Brenna Henn, Rajiv C McCoy, Lauren Sugden, Anshul Kundaje, Manjinder S Sandhu, Deepti Gurdasani, Stephen B Montgomery “ Transcriptionomics and chromatin accessibility in multiple African population samples ” (under revision)
- **Jaljuli, Iman**; Karissa Whiting; Evan Rosenbaum; Li-Xuan Qin. “Revisiting Tumor Mutational Burden Cutoff: Multi-Study Replicability in Immunotherapy” (submitted)

In Preperation

- **Jaljuli, Iman**, Stephen B. Montgomery, Daniel C. Nachun, Chiara Sabatti, “Knockoffs for molecular QTL studies analysis”
- ***Jaljuli, Iman**, David Zucker, Stephen B. Montgomery, Daniel C. Nachun, Yoav Benjamini, “Sub-sampling for estimation & hypothesis testing in linear mixed models”
- ***Jaljuli, Iman**, Stephen B. Montgomery, Daniel C. Nachun, Yoav Benjamini, “QTL study analysis with kinship and batch effects: A subsampling-ANOVA approach”
- ***Jaljuli, Iman**, Elissa Chesler, Yoav Benjamini. “Fallacies in replicability assessment”
- * Implementation R Software under development

Published

- **Jaljuli, Iman** , Karissa Whiting, Evan Rosenbaum, Li-Xuan Qin. “Revisiting Tumor Mutational Burden Cutoff: Multi-Study Replicability in Immunotherapy”. bioRxiv 2025.01.02.631104; // doi: <https://doi.org/10.1101/2025.01.02.631104>
- **Jaljuli, Iman**, Neri Kafkafi, Eliezer Giladi, Ilan Golani, Illana Gozes, Elissa J. Chesler, Molly A. Bogue, and Yoav Benjamini. “A multi-lab experimental assessment reveals that replicability can be improved by using empirical estimates of genotype-by-lab interaction.” PLoS biology 21, no. 5 (2023): e3002082.
- **Jaljuli, Iman**, Yoav Benjamini, Liat Shenhav, Orestis A. Panagiotou, and Ruth Heller. "Quantifying replicability and consistency in systematic reviews." Statistics in Biopharmaceutical Research, 15(2), 372â385. <https://doi.org/10.1080/19466315.2022.2050291>
- Fruchtman-Steinbok, Tom, Jakob N. Keynan, Avihay Cohen, **Iman Jaljuli**, Shiri Mermelstein, Gadi Drori, Efrat Routledge et al. "Amygdala electrical-finger-print (AmygEFP) NeuroFeedback guided by individually-tailored Trauma script for post-traumatic stress disorder: Proof-of-concept." NeuroImage: Clinical 32 (2021): 102859.
- Bar-Or, Ruth Lev, Ariel Kor, **Iman Jaljuli**, and Shaul Lev-Ran. "The epidemiology of substance use disorders among the adult Jewish population in Israel." European addiction research 27, no. 5 (2021): 362-370.

- Panagiotou, Orestis A., **Iman Jaljuli**, and Ruth Heller. "Replicability of Treatment Effect in Study of Blood Pressure Lowering With Dementia." *JAMA* 324, no. 14 (2020): 1465-1466.
- Kapitansky, Oxana, Gidon Karmon, Shlomo Sragovich, Adva Hadar, Meishar Shahoha, **Iman Jaljuli**, Lior Bikovski et al. "Single cell ADNP predictive of human muscle disorders: Mouse knockdown results in muscle wasting." *Cells* 9, no. 10 (2020): 2320.
- Kapitansky, Oxana, Eliezer Giladi, **Iman Jaljuli**, Stefan Bereswill, Markus M. Heimesaat, and Illana Gozes. "Microbiota changes associated with ADNP deficiencies: Rapid indicators for NAP (CP201) treatment of the ADNP syndrome and beyond." *Journal of Neural Transmission* 127, no. 2 (2020): 251-263.
- Kapitansky, Oxana, Shlomo Sragovich, **Iman Jaljuli**, Adva Hadar, Eliezer Giladi, and Illana Gozes. "Age and sex-dependent ADNP regulation of muscle gene expression is correlated with motor behavior: possible feedback mechanism with PACAP." *International journal of molecular sciences* 21, no. 18 (2020): 6715.
- Fruchtmann, Tom, Avihay Cohen, **Iman Jaljuli**, Jacob Nimrod Keynan, Gadi Drori, Efrat Routledge, Michael Krasnoshtein, and Talma Hendler. "Feasibility and effectiveness of personalized amygdala-related neurofeedback for post-traumatic stress disorder." (2019).
- Kafkafi, Neri, Joseph Agassi, Elissa J. Chesler, John C. Crabbe, Wim E. Crusio, David Eilam, Robert Gerlai, **Iman Jaljuli** et al. "Reproducibility and replicability of rodent phenotyping in preclinical studies." *Neuroscience & Biobehavioral Reviews* 87 (2018): 218-232.
- Kafkafi, Neri, Ilan Golani, **Iman Jaljuli**, Hugh Morgan, Tal Sarig, Hanno W?rbel, Shay Yaacoby, and Yoav Benjamini. "Addressing reproducibility in single-laboratory phenotyping experiments." *Nature methods* 14, no. 5 (2017): 462-464.
- Sangenstedt, Susanne, **Iman Jaljuli**, Norbert Sachser, and Sylvia Kaiser. "Stress responsiveness and anxiety-like behavior: the early social environment differentially shapes stability over time in a small rodent." *Hormones and Behavior* 90 (2017): 90-97.

Published Software

2020 metarep published on CRAN for Replicability-Analysis Tools for Meta-Analysis

Honors and Awards

2024-2025 The Katharine McCormick Advanced Postdoctoral Scholar Fellowship (\$100k)

2023-2025 Stanford's Postdoctoral Family Assistance Grant (\$ 9k annually)

2022-2023 The Helena Johnson Hackley Society Scholar Award (\$ 10k)

2022-2024 VATAT (The Council for Higher Education in Israel) scholarship for outstanding Arab Post-Docs (\$ 36k annually)

2022-2024 The Klement Arvman private scholarship for Israeli Post-docs (\$ 30k annually)

2016-2020 Ariane de Rothschild-Caesarea scholarship.

2018 Excellent Teaching Assistant prize (\$ 1k)

2014 Ernst prize awarded for **Excellent BSc student** (€ 1.8k)

Services

2023 Reviewer for the SSGG student paper award competition of the American Statistical Association.

Invited Talks & Posters

2023 "Replicability assessment for survival prediction in cancer studies", Joint Statistical Meeting 2023.

2023 "Statistical approaches for assessing and enhancing replicability", Department of Biostatistics, School of Global Public Health, New York University, New York, NY, USA.

2020 "Quantifying replicability and consistency in systematic reviews", ISCB 2020, 41st annual conference.

2020 The 30th international biometrics conference (Poster).

2019 "Replicability Issues in Mouse Phenotyping Solutions and Challenges", at The Jackson Laboratory, ME, USA.

2019 "Estimating the variance of the interaction term for enhancing replicability", Joint Statistical Meeting 2019 (Talk & poster).

2019 Workshop on Linear Mixed Models, PhD research group at Ichilov Hospital, Sagol Brain Institute, Tel Aviv.

2019 The Israeli Statistical Association, meeting of 2019 (Poster).

2018 Speaker at the "Alrowad Advanced Topics in Science" Conference for the Arab community, Tel-Aviv University, Israel.

2016 "Replicability and Reproducibility", Muenster University, Germany.

2015 "Replicability and Reproducibility", R&R conference, Tel-Aviv University.

Academic Appointments

2014-2022 Tel-Aviv University, Teaching Assistant in -

- Linear Models (for M.s.c students ×2 semesters).
- Statistical Theory (×4 semesters).
- Introduction to Statistics for Computer Science (×2 semesters).
- Introduction to Statistics for Statisticians (×1 semesters).
- Introduction to Probability & Statistics for Electrical Engineers (×1 semesters).
- Statistics for Biologists (×5 semesters).
- Statistics I for Economy Major (×2 semesters).
- Probability and Statistics for Computer Science - Double Major (×2 semesters).

2013-2016 Research Assistant at the Benjamini lab, Tel-Aviv University

Programming Skills & Experinces

Statistical Analysis Using Advanced Tools in R, namely: Generalized Linear Models, Mixed Models, Meta-analysis, Observational Studies, Survival analysis, etc.

Data Visualisations, Data Mining in R

SQL

Python

Linux and Ubuntu

Volunteering

- 2020 Tutor in Stastistics for girls in "Academia Lachayeem" program.
- 2020 Statistical Analyst in COVID-19-related Research by Researchers at TAU's School of Dental Medicine.
- 2020 Co-lecturer in Preparatory Math Course for Arab Students.
- 2019 Panel Speaker in a Meet-up for Masters and PhD Applicants\Students in the Schools of Mathematics.
- 2019 "Trouble at the Lab": talk at "Science on the Bar" meeting, Tel-aviv University.
- 2018 "Women In Academia": Talk for Bedwen Girls.
- 2018 "Make Your Path in Academia: Insider Tips": Lecture for Arab Students and HighTech Employees at the Hebrew University, Israel.
- 2017-2019 Organizer of Weekly Meetings for Undergraduate Arab students in Math Sciences and Computer Science in School of math, TAU. Contribution of Head of Math School prof. Gadi Fibich.
- 2016-2020 Academic Advisor for applicants and Freshman Arab Students in Schools of Computer Science, Mathematics and Engineering.

Languages

- Arabic Native speaker
- Hebrew Fluent
- English Very good