Department of Statistics University of Connecticut Storrs, CT, 06269-4120	Room: 315, Philip E. Austin Build Phone: (860)-486-5455 E-mail: haim.bar@uconn.edu Web site: https://haim-bar.uco	-
Statistical models; shrinkage estimation; Bayesian High-Dimensional Data; high throughput appli- cations in biology; applications in econometrics; Bayesian statistics; machine learning.		
 Cornell University, Ithaca, New York USA Ph.D. in Statistics, 2012 Dissertation Topic: "Parallel Testing, and Variable Selection – a Mixture-Model Approach with Applications in Biostatistics" Advisors: James Booth (Chair), Martin T. Wells, Robert L. Strawderman M.Sc. in Statistics Yale University, New Haven, Connecticut USA M.Sc. in Computer Science The Hebrew University, Jerusalem, Israel B.Sc. in Mathematics, Cum Laude 		
 Associate Professor Assistant Professor I am an associate professor at the affiliated with the Institute for Sys Intervention, and Policy (InCHIP) Teaching: STAT 5005: Introduction to Ap STAT 5505: Applied Statistics STAT 5605: Applied Statistics STAT 3515Q/5515: Design of Spring 2017) STAT 3675Q: Statistical Compu- STAT/BIST 5225: Data Mana 2017) STAT/BIST 5215: Statistical C 2018) Cornell University, Ithaca, New Statistical Consultant As a member of the Cornell Stat to Cornell faculty and staff. I business, genomics, nutrition, so 	University of Connecticut, in the Destems Genomics (ISG), the Institute of, and the CT Institute for the Brain oplied Statistics I II Experiments (<i>Excellence in teaching recogna</i> gement in SAS and R (<i>Excellence in Consulting (Excellence in teaching recogna</i> Consulting (<i>Excellence in teaching recogna</i> Vork, USA etistical Consulting Unit (CSCU) I p I handled a diverse range of applic peciology, etc. I presented a wide range	for Collaboration on Health, and Cognitive Sciences. In and Cognitive Sciences. In and Cognitive Sciences. In grecognition - Spring 2014, In teaching recognition - Fall Recognition - Spring 2018, Fall Suly 2011 - July 2013 provided statistical consulting reations, including economics, ge of topics in workshops, and
testing, etc.		sistics, missing data, multiple
	 University of Connecticut Storrs, CT, 06269-4120 Statistical models; shrinkage estim cations in biology; applications in e Cornell University, Ithaca, New Ph.D. in Statistics, 2012 Dissertation Topic: "Parall with Applications in Biostat Advisors: James Booth (Ch. M.Sc. in Statistics Yale University, New Haven, Co. M.Sc. in Computer Science The Hebrew University, Jerusz B.Sc. in Mathematics, Cum La University of Connecticut, Sto Associate Professor I am an associate professor at the affiliated with the Institute for Sys Intervention, and Policy (InCHIP) Teaching: STAT 5005: Introduction to Ap STAT 5505: Applied Statistics STAT 5605: Applied Statistics STAT 3515Q/5515: Design of Spring 2017) STAT 3675Q: Statistical Comp STAT/BIST 5225: Data Mana 2017) STAT/BIST 5215: Statistical C 2018) Cornell University, Ithaca, New Statistical Consultant As a member of the Cornell Stat to Cornell faculty and staff. In business, genomics, nutrition, so as a guest lecturer in courses at testing, etc. 	 University of Connecticut Phone: (860)-486-5455 Storrs, CT, 06269-4120 E-mail: haim.bar@uconn.edu Web site: https://haim-bar.uco Statistical models; shrinkage estimation; Bayesian High-Dimensional I cations in biology;applications in econometrics; Bayesian statistics; matching of the phone: (Parallel Testing, and Variable Selection with Applications in Biostatistics" Advisors: James Booth (Chair), Martin T. Wells, Robert L. Str M.Sc. in Statistics Yale University, New Haven, Connecticut USA M.Sc. in Computer Science The Hebrew University, Jerusalem, Israel B.Sc. in Mathematics, Cum Laude University of Connecticut, Storrs, Connecticut, USA Associate Professor I am an associate professor at the University of Connecticut, in the D affiliated with the Institute for Systems Genomics (ISG), the Institute Intervention, and Policy (InCHIP), and the CT Institute for the Brain Teaching; STAT 5005: Introduction to Applied Statistics STAT 5505: Applied Statistics II STAT 3615Q/5515: Design of Experiments (Excellence in teaching recogn STAT/BIST 5225: Data Management in SAS and R (Excellence 2017) STAT/BIST 5215: Statistical Consulting (Excellence in teaching recogn STAT/BIST 5215: Statistical Consulting Unit (CSCU) I r to Cornell University, Ithaca, New York, USA Statistical Consultant As a member of the Cornell Statistical Consulting Unit (CSCU) I r to Cornell faculty and staff. I handled a diverse range of applic business, genomics, nutrition, sociology, etc. I presented a wide rang as a guest lecturer in courses at Cornell, including on Bayesian statistica statistica statistical consulting on Bayesian statistical statistica statistical consultant statistical consultant statistical consulting on Bayesian statistical statistical statistical consultant s

	Haim Y. Bar		
	methods and applied existing techniques to analy	August 2012 - July 2013 Veill Cornell Medical College. I developed new vze very large data sets involving up to millions of lata for epigenetic analysis, and RNA sequencing	
		July 2011 - December, 2011 the theory and application of sharp identification ation method based on Support Vector Machines. I game theory problems.	
	Graduate Student M.Sc. and Ph.D. programs.	August 2005 - December 2011	
	Head Teaching Assistant BTRY 6010, Statistical Methods I (Outstanding	August 2009 - December 2010 <i>TA Award</i> 2010-2011).	
	 Teaching Assistant BTRY 6020, Statistical Methods II (graduate le BTRY 6010, Statistical Methods I (graduate lev ORIE 474, Statistical Data Mining. CS 101M, Introduction to Computer Programm MATH 335/COMS 480, An Introduction to Cry 	rel class). ing (Outstanding TA Award, 2006).	
PUBLICATIONS	Bar, H.; Wang, H. Reproducible Science with LAT 10.6339/21-JDS998	TEX. J. data sci. 2021; 19, no. 1, 111-125, DOI	
	Bar H.; Bang S. A mixture model to detect edges in sparse co-expression graphs with an application for comparing breast cancer subtypes. 2021; PLOS ONE 16(2): e0246945. https://doi.org/10.1371/journal.pone.0246945		
	McLaughlin, P.; Bar, H. A spatial capture-recapt Environmetrics. 2021; 32(1):e2653. https://doi.org		
	Bar, H.; Zweifach, A. Z' Does Not Need to be > 0.5. SLAS Discovery, 2020 https://journals.sagepub.com/doi/full/10.1177/2472555220942764 DOI: 10.1177/2472555220942764		
	Katneni, Upendra; Holcomb, David; Hernandez, Nancy E.; Hamasaki-Katagiri, Nobuko ; Hunt, Ryan C.; Bar, Haim; Ibla, Juan C.; Kimchi-Sarfaty, Chava . In silico features of ADAMTS13 contributing to plasmatic ADAMTS13 levels in neonates with congenital heart disease. Thrombosis Research, 2020, Vol. 193, 66-76		
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	Kames, J; Holcomb, D.D.; Alexaki, A; Santana-G Katneni, U; Golikov, A; Ibla, J.C.; Bar, H.; Kimo <i>Tissue-Specific Codon and Codon-Pair Usage Table</i> Journal of Molecular Biology. 2020 Jan 23; S0022-2	chi-Sarfaty, C. TissueCoCoPUTs: Novel Human es Based on Differential Tissue Gene Expression.	

Hunt, R.; Hettiarachchi, G.; Katneni, U.; Hernandez, N.; Holcomb, D; Kames, J.; Alnifaidy, R.; Lin, B.; Hamasaki-Katagiri, N.; Wesley, A.; Kafri, T.; Morris, C.; Bouché, L.; Panico, M.; Schiller, T.; Ibla, J.; Bar, H.; Ismail, A.; Morris, H.; Komar, A.; Kimchi-Sarfaty, C. A single synonymous variant (c.354G > A[p.P118P]) in ADAMTS13 confers enhanced specific activity. The International Journal of Molecular Sciences. 2019, 20(22), 5734; https://doi.org/10.3390/ijms20225734

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Alexander, E. L.; Gardete, S.; Bar, H.; Wells, M. T.; Tomasz, A.; Rhee, K. Y. Intermediate-Type Vancomycin Resistance (VISA) in Genetically-Distinct Staphylococcus aureus Isolates is Linked to Specific, Reversible Metabolic Alterations. May 9, 2014. PLOS ONE. Vol. 9, No. 5, pages e97137.

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Bar H.; Miranker W.; Ambash A. Competition and Cooperation in Neuronal Processing. 2003, IEEE Transactions on Neural Networks 14(4):860-8.

	Haim Y. Bar
UNDER REVIEW OR IN PREPARATION	Liu, K.; Bar, H. Large-P Variable Selection in Two-Stage Models.
OR IN I RELATATION	Bar, H.; Booth, J.; Wells, M. T. Mixed Effect Modeling and Variable Selection for Quantile Regression. https://arxiv.org/abs/1910.11479
	Bar, H.; Schifano, E. D. <i>DVX: an R package for Differential Variation and eXpression analysis.</i> https://haim-bar.uconn.edu/software/DVX/, 2018.
	Bar, H. Robust Variance Estimation.
GRANTS AND CONTRACTS	NIH Award: Characterization of the ventricular-subventricular stem cell niche during human brain development. PI: J. Conover. H. Bar (co-Investigator.) Funding period: April 2020-March 2024.
	NSF Award #: 1612625. PI. Variable Selection in the High Dimensional, Low Sample Size Setting - Beyond the Linear Regression and Normal Errors Model. Funding period: 8/15/16-7/31/19. Funding amount \$150,000.
	National Science Center - Poland. Identification of transcriptomic markers of maize resistance to cereal aphids. PI Dr. Hubert Sytykieticz. Funding period: 2/9/17-2/8/20.
	Travelers. Modeling and analysis of large insurance claim and occurrence data: A partnership be- tween UConn and Travelers. 2018 – PI: Dr. Dipak Dey, co-PIs: Haim Bar, Kun Chen, Elizabeth Schifano, Xiaojing Wang. Funding period: 8/1/17-7/31/18. Funding amount \$137,881. 2019 – PI: Dey, D. Co-Investigators: Haim Bar, Kun Chen, Victor Hugo Lachos Davilla. Funding period: 8/1/2018 - 7/31/2019. Funding amount \$146,451.
Patents	 U.S. Patent 9384677 (granted July 5, 2016) U.S. Patent 20150213730 A1 (Publication Date: July 30, 2015) U.S. Patent 9076342 B2 (granted July 7, 2015) U.S. Patent 20090208910 A1 (Publication Date: August 20, 2009) Automated execution and evaluation of network-based training exercises. Inventors: Brueckner, S. K.; Adelstein, F. N.; Bar, H.; Donovan, M. U.S. Patent 20150143355 (Publication Date: May 21, 2015) Service Oriented Architecture Version and Dependency Control. Inventors: Tingstrom, D. J.; Joyce, R. A.; Stillerman, M. A.; Brueckner, S. K.; Bar, H. U.S. Patent 8,984,396 (granted March 17, 2015) Identifying and representing changes between extensible markup language (XML) files using symbols with data element indication and direction indication. Inventors: Tingstrom, D. J.; Joyce, R. A.; Stillerman, M. A.; Brueckner, S. K.; Bar, H. U.S. Patent 8,898,285 (granted November 25, 2014) Service oriented architecture version and dependency control Inventors: Tingstrom, D. J.; Joyce, R. A.; Stillerman, M. A.; Brueckner, S. K.; Bar, H. U.S. Patent 8,898,285 (granted November 25, 2014) Service oriented architecture version and dependency control Inventors: Tingstrom, D. J.; Joyce, R. A.; Stillerman, M. A.; Brueckner, S. K.; Bar, H. U.S. Patent 8,286,249 (granted October 9, 2012) U.S. Patent 7,748,040 (granted June 29, 2010); Attack correlation using marked information. Inventors: Adelstein F. N., Bar H., Alla P. and Proskourine N.
Short Courses	Advanced statistical modeling ideas (session on missing data). The University of Barcelona, Spain. January, 2019. Advanced topics in R and Machine Learning. The Technion, Haifa, Israel. July, 2018. R/Bioconductor workshop - the Technion, Haifa. November, 2016 (co-taught with Dr. Martin Morgan).

INVITED TALKS

- Large-P Variable Selection in Two-Stage Models. - CMStatistics, London, UK, December 2020.
- University of Connecticut, March 2020.
- University of Haifa, Israel. May, 2020.

Quantile Regression Modelling via Location and Scale Mixtures of Normal Distributions. - Cornell University, October 2019.

A Mixture Model to Detect Edges in Sparse Co-expression Graphs.

- The 3rd Eastern Asia Meeting on Bayesian Statistics, Seoul, South Korea. July, 2018.
- Yonsei University, Seoul, South Korea. July, 2018.
- Korea University, Seoul, South Korea. July, 2018.
- Bayesian Modeling, Computation, and Applications, Storrs, CT, May 2018.

A Scalable Empirical Bayes Approach to Variable Selection in Generalized Linear Models.

- The 34th Quality and Productivity Research Conference, Storrs, CT, June 2017.
- The 10th ICSA International Conference, Shanghai, China. December, 2016.
- Temple University, Research Colloquium, Department of Statistical Science, April 2017.
- Baruch College, CUNY, Colloquium, Department of Information Systems and Statistics Zicklin School of Business, November 2016.

A Scalable Empirical Bayes Approach to Variable Selection.

- 2016 Joint Statistical Meetings, Chicago, IL. July, 2016.
- Joint UCONN/UMASS Statistics Colloquium, University of Massachusetts Amherst, MA. October 7, 2015
- Statistics Seminar, Department of Mathematics University of Maryland. October 1, 2015.
- Colloquium Mathematical Biosciences Institute The Ohio State University. Sep. 21, 2015

An Empirical Bayes Approach to Variable Selection and QTL Analysis.

- Purdue University, Research Colloquium, Statistics Department, October 2014.
- Modern Modeling Methods (M^3) Conference, Storrs, CT, May 2014.

Model-based approaches for big-data problems, with applications in genomics. University of Connecticut, Institute for Systems Genomics Annual Networking Workshop. Storrs, CT. May 13, 2014.

- A Bivariate Model for Simultaneous Testing in Bioinformatics Data
- 3rd International Conference and Exhibition on Biometrics & Biostatistics, Baltimore, MD, October 2014.
- University of Iowa, February 2013
- NIH/NCI, March 2013
- University of Connecticut, February 2013
- University of Rochester, February 2013
- Cornell University, October 2012

Accounting for Heaping in Retrospectively Reported Event Data - A Mixture Model Approach. ICSA Applied Statistics Symposium in New York City, NY, USA. June 2011.

A Heap of Trouble? Accounting for Mismatch Bias in Retrospectively Collected Data on Smoking. 3rd Biennial Conference of the American Society of Health Economists, Ithaca, NY, June 2010.

CONFERENCE An Empirical Bayes Approach to Variable Selection and QTL Analysis. Frontiers Of Hierarchi-Cal Modeling In Observational Studies, Complex Surveys And Big Data: A Conference Honoring Professor Malay Ghosh. College Park, MD. May 29-31, 2014.

A Mixture-Model Approach for Testing for Unequal Variances in Microarray Data. Conference of Applied Statistics Ireland, Galway, Ireland, 2011.

An Empirical Bayes Approach to Variable Selection and QTL Analysis. In the Proceedings of the 25th International Workshop on Statistical Modelling, Glasgow, Scotland, 2010.

JOURNAL REFEREE Annals of Applied Statistics; Bayesian Analysis; Bioinformatics; Biometrics; Behavior Research Methods; BMC bioinformatics; Conservation Biology; Evaluation and Program Planning; International Journal of Environmental Research and Public Health; International Statistical Review; Journal of Agricultural, Biological, and Environmental Statistics; Journal of Computational and Graphical Statistics; Journal of Statistical Modeling; Journal of Statistical Planning and Inference; Journal of Statistical Theory and Practice; Journal of the American Statistical Association; Methodology & Computing in Applied Probability; PLOS ONE; Statistical Analysis and Data Mining; Statistical Modelling; Statistics and Its Inference; Statistics in Medicine; Stats.

Referee - Other - National Science Foundation (NSF), 2017. - The Donaghue Medical Research Foundation: "Greater Value Portfolio" - Review Board Member, 2015, 2016, 2017. "Another Look" - Review Board Member, 2016. - National Aeronautics and Space Administration - Review Board Member, 2016. - International Chinese Statistical Association - Student Award Committee for the 2016 ICSA International Conference in Shanghai, China, Dec. 19-22, 2016. - New England Statistics Symposium - IBM Student Award Committee, 2015. Conference Organizing committee: The 33rd New England Statistics Symposium, Hartford, CT, 2019. ACTIVITIES Co-chair of the organizing committee: The 31st New England Statistics Symposium, Storrs, CT, 2017.Co-chair of the organizing committee: The 34th Quality and Productivity Research Conference, Storrs, CT, 2017. Session chair - Joint Statistical Meeting, 2016 (Chicago, IL). Session title: R Tools for Statistical Computing Session chair - Joint Statistical Meeting, 2015 (Seattle, WA). Session title: Methods in Machine Learning and Data Mining. Session chair - 3rd International Conference and Exhibition on Biometrics & Biostatistics, 2014. Distinguished Statistician Colloquium - the Pfizer Series (Chair). DEPARTMENT AND UNIVERSITY Graduate program curriculum - applied statistics (Chair). Committees Computing. New England Statistics Society. New England Statistics Symposium, 2017. Gratis faculty appointment (Chair). Visiting assistant professor search committee. Graduate students and distinguished alumni awards. UConn's Q-Center. Environmental health and safety (Chair). Library / tech reports (Chair). OTHER SERVICES Sankhya Series A, the Indian Journal of Statistics. (2018-) Associate Editor. Health Policy Statistics Section communication officer (July 2016-June 2019). Health Policy Statistics Section - best student paper review board (for JSM 2017). The 10th ICSA International Conference - Young Researcher Award review committee. New England Statistics Society - co-chair of the committee to establish the society's journal. Eastern North American Region (ENAR) 2019: Program committee member. (2018).

Updated on February 12, 2021

Ph.D. Advising	Liu, Kangyan, 2019 (major advisor)
	McLaughlin, Paul, 2019 (major advisor)
	Chaoran Hu, 2020 (associate advisor)
	Yulia Sidi, 2020 (associate advisor)
	Jieying Jiao, 2020 (associate advisor)
	Renjie Chen, 2019 (associate advisor)
	Zha, Ruochen, 2018 (associate advisor)
	Luo, chongliang, 2017 (associate advisor)
	Mishra, Aditya, 2017 (associate advisor)
	Mishra, Neha, 2017 (associate advisor)
	Larose, Chantal, 2015 (associate advisor)
	Ouyang, Guang, 2015 (associate advisor)

Professional EXPERIENCE

ATC-NY, Ithaca, New York USA

Principal Scientist September 2003 - December 2010 Involved in several government-funded research projects, mostly related to secure and survivable computer systems. For example, in the SPRINT project ("Secure Programming Using Artificial Intelligence Techniques") I designed and prototyped a tool to support secure programming with SPARK (SRI's Procedural Agent Realization Kit). In "Policy Projector", a Phase I OSD-funded effort, I was involved in the design of a tool that rapidly reveals potential problems with network policy changes prior to their implementation. In "Software Pedigree Analysis" (SPAN), a DARPA Phase I SBIR effort, I developed a prototype that maintains software pedigree to support future forensic investigations; and in "Active Smart Targets for Effective Response" (ASTER), a DARPA-funded Phase II SBIR, I developed a prototype to identify hackers by feeding them traceable information during exploratory probes.

MicroPatent LLC, East Haven, Connecticut USA

Director of Software Development

January 2002 - December 2003 Responsible for all software development projects, leading a team of 15-20 programmers. Designed and implemented an extensive patent-family database with over 50 million records, merging several different sources of data. Developed analytical tools for advanced patent searchers.

Special Projects Manager

Led a team of five people to develop a large-scale system to deliver patent databases in XML format. The project included designing a database, writing a program to convert the data to XML, writing programs to validate the XML, and programs to automate and monitor the delivery process.

Team Leader

February 1999 - September 2000 Led a team that designed and implemented comprehensive patent and trademarks databases and web interfaces. In addition to developing web-based applications, I was involved in other projects, including the design and implementation of a Client/Server application to provide customers with direct access to the patent database (using OpenText's "Bibliographic Retrieval Services (BRS)/Search"); design and implementation of an SQL-based database to save user queries, and a corresponding web interface that allows users to construct complicated searches by combining results from previous searches, and share searches with colleagues; and an information-theoretic approach to improve retrieval of records.

Unix Programmer

Involved in almost all the development projects in the company, including programs to enable our web customers to download patent data in PDF format (the first web site in the industry to do that), and in Lotus Notes format.

October 2000 - January 2002

November 1997 - February 1999

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Motorola Israel - Wireless Access Systems Division, Tel Aviv, Israel

Software Engineer

May 1995 - July 1997

As part of the Software Quality Assurance (SQA) team in the "Wireless Local Loop" (WiLL) project, I was involved in a wide range of activities, including extensive test and integration of wireless and land telephony systems, from the operating system of the base stations to the end-user wireless equipment; software engineering practices and procedures; writing a graphic user interface for the WiLL system; writing a program to automate the analysis of massive log files in order to detect anomalies; and integration and testing of an encryption device in the fixed wireless terminals.

OTHER SKILLS Statistical Packages: R, BUGS, Matlab, JMP, SAS, Stata, SPSS. Programming languages: Perl, Pyhton, C, Java, JavaScript, Unix shell scripts, SQL, PHP, HTML/XML, Tcl/Tk.