

Svetlana K. Eden

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EDUCATION

Moscow State University, Moscow, Russia, M.S., **Applied Mathematics**, 1992

Technion and University of Haifa, Haifa, Israel, M.S., **Economics**, 1998

University of Haifa, Haifa, Israel, M.S., Course work for B.S. double major in Economics and Computer Science, **Computer Science**, 2003

Vanderbilt University, Nashville TN, graduate program in **Biostatistics**, Present

EXPERIENCE

Biostatistician III, Department of Biostatistics, Vanderbilt University Medical Center, 2007 - 2014

- Provided statistical support regarding sample size, design, and analysis of statistical data.
- Participated in writing of abstracts and manuscripts from the beginning and through the revision process.
- Designed and implemented R tools for statistical data visualization.
- Facilitated use of R packages by developing supporting R tools.
- Improved readability and reproducibility of statistical reporting by developing R tools that converted the data into LaTeX table format.

Biostatistician II, Department of Biostatistics, Vanderbilt University Medical Center, 2004 - 2007

- Provided statistical summaries for independent data monitoring committee of clinical trial REDUCE, a randomized, double-blind, placebo-controlled, parallel group study of the efficacy and safety of dutasteride 0.5mg to reduce the risk of biopsy-detectable prostate cancer.
- Provided statistical summaries for independent data monitoring committee of clinical trial PICOLO, Platelet Aggregation Inhibition in Children on Clopidogrel.

Software Engineer, Camelot Ltd., Haifa, Israel, 01/2000 - 11/2001

- Minimized time of code development by introducing and maintaining a system of efficient programming practices.
- Improved running time of the company software by identifying performance bottlenecks in the main algorithm and by reducing its time complexity.

Software Engineer, Avionitek Ltd., Haifa, Israel, 09/1999 - 01/2001

- Designed and implemented methods of testing an operating system, the main product developed by the company.

Software Engineer, Department of Mathematical Statistics, Moscow State University, Moscow, Russia, 09/1992 - 01/1994

- Participated in developing a statistical tool of analyzing time series.

PUBLICATIONS Shintani AK, Girard TD, Eden SK, Arbogast PG, Moons KG, Ely EW. Immortal time bias in critical care research: application of time-varying Cox regression for observational cohort studies. *Critical Care Medicine*. 2009 Nov;37(11):2939-45. PMID: 19770737

Schnipper JL, Roumie CL, Cawthon C, Businger A, Dalal AK, Mugalla I, Eden S, Jacobson TA, Rask KJ, Vaccarino V, Gandhi TK, Bates DW, Johnson DC, Labonville S, Gregory D, Kripalani S; PILL-CVD Study Group. Rationale and design of the Pharmacist Intervention for Low Literacy in Cardiovascular Disease (PILL-CVD) study. *Circulation. Cardiovascular Quality and Outcomes*. 2010 Mar;3(2):212-9. PMID: 20233982

Han JH, Shintani AK, Eden SK, Morandi A, Solberg LM, Schnelle J, Dittus RS, Storrow AB, Wesley EE. Delirium in the Emergency Department: An Independent Predictor of Death Within 6 Months. *Annals of Emergency Medicine*. 2010 Sep;56(3):244-252. PMID: 20363527

Cavanaugh KL, Wingard RL, Hakim RM, Eden SK, Shintani AK, Wallston KA, Huizinga MM, Elasy TA, Rothman RL, Ikizler AT. Low Health Literacy Associates with Increased Mortality in ESRD, *JASN* 2010 Nov;21(11):1979- 85. PMID: 20671215

Smith HA, Boyd J, Fuchs DC, Melvin K, Berry P, Shintani A, Eden SK, Terrell MK, Boswell T, Wolfram K, Sopfe J, Barr FE, Pandharipande PP, Ely EW. Diagnosing delirium in critically ill children: Validity and reliability of the Pediatric Confusion Assessment Method for the Intensive Care Unit. *Critical Care Medicine*. 2011 Jan;39(1):150-7. PMID: 20959783

Marvanova M, Roumie CL, Eden SK, Cawthon C, Schnipper JL, Sunil Kripalani S. Health Literacy and Medication Understanding Among Hospitalized Adults. *Journal of Hospital Medicine* 2011 Nov; 6(9): 488493. PMID: 22139905

Wright JAN, Wallston KA, Eden SK, Shintani AK, Ikizler TA, Cavanaugh KL. Associations among perceived and objective disease knowledge and satisfaction with physician communication in patients with chronic kidney disease, *Kidney International* 2011 Dec;80(12):1344-51. PMID: 21832984

Siew ED, Peterson JF, Eden SK, Hung AM, Speroff T, Ikizler TA, Matheny ME. Outpatient Nephrology Referral Rates after Acute Kidney Injury, *JASN* 2012 Feb; 23(2):305-12. PMID: 22158435

Devasia R, Blackman A, Eden S, Li H, Maruri F, Shintani A, Alexander C, Kaiga A, Stratton CW, Warkentin J, Tang YW, Sterling TR. High proportion of fluoroquinolone-resistant *Mycobacterium tuberculosis* isolates with novel gyrase polymorphisms and a *gyrA* region associated with fluoroquinolone susceptibility. *Journal of Clinical Microbiology*. 2012 Apr;50(4):1390- 6. PMID: 22189117

Griffith ML, Boord JB, Eden SK, Matheny ME. Clinical inertia of discharge planning among patients with poorly controlled diabetes mellitus. *The Journal of Clinical Endocrinology and Metabolism*. 2012 Jun;97(6):2019- 26. PMID: 22466346

Kripalani S, Roumie CL, Dalal AK, Cawthon C, Businger A, Eden SK, Shintani A, Sponsler KC, Harris LJ, Theobald C, Huang RL, Scheurer D, Hunt S, Jacobson TA, Rask KJ, Vaccarino V, Gandhi TK, Bates DW, Williams MV, Schnipper JL; PILL-CVD (Pharmacist Intervention for Low Literacy in Cardiovascular Disease) Study

Group. Effect of a pharmacist intervention on clinically important medication errors after hospital discharge: a randomized trial. *Annals of Internal Medicine* 2012 Jul 3;157(1):1-10 PMID: 22751755

Wester CW, Eden SK, Shepherd BE, Bussmann H, Novitsky V, Samuels DC, Hendrickson SL, Winkler CA, O'Brien SJ, Essex M, DAquila RT, De-Gruttola V, Marlink RG. Risk factors for symptomatic hyperlactatemia and lactic acidosis among combination antiretroviral therapy-treated adults in Botswana: results from a clinical trial. *AIDS Research and Human Retroviruses* 2012 Aug;28(8):759-65. PMID: 22540188

Siew ED, Peterson JF, Eden SK, Moons KG, Ikizler TA, Matheny ME. Use of Multiple Imputation Method to Improve Estimation of Missing Baseline Serum Creatinine in Acute Kidney Injury Research. *CJASN* 2013 Jan;8(1):10-18. PMID: 23037980

Wright NJ, Greene JH, Wallston K, Eden S, Shintani A, Elasy T, Rothman RL, Ikizler TA, Cavanaugh KL. Pilot Study of a Physician-Delivered Education Tool to Increase Patient Knowledge About CKD. *American Journal of Kidney Disease* 2013 Jul;62(1):23-32. PMID: 23540261

TEACHING ACTIVITIES

- Teaching assistant, Microeconomics, Department of Economics, University of Haifa, Haifa, Israel, fall semester of 1998 - 1999
- Teaching assistant, Introduction to Statistical Computing, Department of Biostatistics, Vanderbilt University Medical School, fall semesters, 2012-2014
- Continuing education seminar for staff: Using library chron to create date objects in R, 2005
- Continuing education seminar for staff: Introduction in string matching and manipulation in R using regular expressions, 2007
- Continuing education seminar for staff: Using apply functions in R, 2011
- Department seminar: Efficiency tips for basic R loops, 2012

INTRAMURAL ACTIVITIES

- Team leader of CQI project on Improving Communication Skills, Department of Biostatistics, Vanderbilt University, 12/2005- 08/2006
- Organized a three-day seminar on Effective Scientific Writing 06/2010 Invited speaker Judith A. Swan, Ph.D. Oversaw all aspects of the seminar including fundraising, curriculum, and scheduling. The seminar was jointly sponsored by the Departments of Biostatistics, Biomedical Research Education and Training, Continuing Medical Education, Clinical Translational Scientist Development, and the Vanderbilt Writing Studio.

HONORS, AWARDS

- Scholarship for excellent academic performance University of Moscow, 1987 - 1992
- Fellowship for excellent academic performance University of Haifa, 1997 - 1999
- Excellence award by Department of Economics, Haifa University 1997
- Third Place Award for the Data Exposition Poster Competition at the 2006 JSM Joint Statistical Meetings of American Statistical Association sponsored by the section on Statistical Graphics, Section on Statistical Computing and Section on Statistics and the Environment

**LANGUAGES
AND
SOFTWARE**

- Operating systems: Linux, Windows, Mac
- Statistical software: proficient in R, basic skills in SAS and in STATA
- Programming languages: proficient in R; comfortable with Python and C++
- Reproducible reporting tools: LaTeX, Sweave/Knitr, Markdown

**HOBBIES AND
OTHER INFO**

- Fluent in English, Hebrew, and Russian.
- Hobbies: painting in oil, drawing, hiking, swimming, landscaping.