

Yevgeniy Elbert
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OBJECTIVE:

To become an independent SAS consultant.

QUALIFICATIONS:

MS Mathematical Statistics
SAS Certified v8 Advanced Programmer
SAS Certified Base Programmer

+

Splus/R, Matlab
ArcInfo, ArcView, ArcIMS, AutoCAD
VBA for Access/Excel, SQL,C, C++, HTML
Microsoft Office

UNIX, Windows, VMS

WORK EXPERIENCE

**US CENSUS BUREAU,
Data Integration Division**

Suitland, MD

SAS Analyst
04/2006 – now

Data analysis and processing using SAS/UNIX
Data linkage and regression modeling for several Federal and State subsidy programs

**University of Maryland
Center for Vaccine Development**

Baltimore, MD

Statistician
04/2005-04/2006

Working in support of vaccine clinical trials.
Writing SAS and VBA Excel Macros to support ongoing trials.
Statistical analysis of epidemiologic data

Allied Technology Group

Silver Spring, MD

Statistician
01/2001 – 04/2005

Working for Department of Defense Global Emerging Infections System and Department of Preventive Medicine at Walter Reed Army Institute of research.

Participated in the development of Electronic Surveillance System for Notification of Community-Based Epidemics (Essence) project:

- Using Tricare (military HMO) data of hospital visits, drug prescriptions, etc., designed and implemented prediction algorithms to detect abnormalities in counts for particular syndromes or drug types.
- In collaboration with researchers from Johns Hopkins University Applied Physics Lab, evaluated different algorithms for different types of data, and coded them into the production system (SAS)
- Processed large datasets of health data (~100+ mln records) in SAS; maintained a repository of health claims and pharmaceutical prescriptions
- Created a test website for experimenting with different modeling techniques for temporal/spatial analysis of the data.
- Created several analysis/visualization tools using SAS/VBA for Excel / Access/Satscan
- Modified existing website used by Military Treatment Facilities worldwide.
- Used GIS software to visualize the data.
- Guided graduate students on their thesis projects.
- Worked on project SOLACE evaluating effects of 9/11 on mental health of US military and their families.
- Prepared presentations and participated in different conferences and workshops.

The Urban Institute
SAS Programmer
11/2000 –01/2001

Washington, DC

Merged, updated and archived various data repositories using SAS.

CSR Incorporated

Research assistant
06/2000 – 11/2000

Washington DC

Worked on Alcohol Epidemiologic Data Systems project for National Institute of Alcohol and Alcohol Abuse:

Data processing and analysis using VBA for Excel
SAS/Unix programming
University of Maryland Baltimore County
Baltimore, MD Teaching Assistant
09/1997-01/2000

Taught and graded various undergraduate courses in statistics and mathematics.

Institute of Radioecology
Kiev, Ukraine
GIS Analyst
1994-1996

Data analysis of soil samples collected after the Chernobyl Catastrophe in 30-kilometer Zone around Chernobyl Nuclear Power Station.
Processed wide range of maps using AutoCAD 12 and ArcInfo 3.4.2. Designed supporting programs for PC ArcInfo (Geographical Information Systems) using FoxPro 2.x and SML.
Installed and tested software applications.

EDUCATION

University of Maryland at College Park
College Park, MD
Enrolled in Ph.D program in Mathematical Statistics
Fall'03 – present

University of Maryland Baltimore County
Baltimore, MD
Master of Science in Mathematical Statistics
Fall'97 – Fall'99

Kiev National University
Kiev, Ukraine
Bachelor of Science in Mathematics
1992- 1996

POSTERS AND PRESENTATIONS

Howard Burkom, Yevgeniy Elbert, Sean Murphy, Jacki Coberly, Kathy Hurt-Mullen. Public Health Monitoring Tools for Multiple Data Streams
To be presented at NISS Workshop on Statistics and Counterterrorism

Howard S. Burkom, PhD, Eugene Elbert, MS, Andrew Feldman, PhD, Jeffrey Lin, MS, Sean Patrick Murphy, MS. Statistical and Epidemiological Management of Complex, Multilevel ESSENCE Biosurveillance Systems
2004 APHA, Washington DC, Nov 2004

Shilpa Hakre, Yevgeniy Elbert, Howard Burkom, Julie Pavlin
An Evaluation of Pharmacy Data for Medical Surveillance
2004 Syndromic Surveillance Conference , Boston, MA Nov 03-04

Yevgeniy Elbert¹ M.S., Howard Burkom² Ph.D. Meeting Challenges in the Use of Nontraditional Data Sources for Public Health Monitoring

S.Hakre, H. Wang, Y. Elbert and J. Pavlin. Prescription Medication Use During Gastrointestinal and Respiratory Outbreaks at Military Treatment Facilities
2004 PHIN Meeting, Atlanta , GA April 2004

Burkom H., Elbert Y. Spatiotemporal Cluster Detection in ESSENCE Biosurveillance Systems. DIMACS Workshop on Adverse Event/Disease Reporting, Surveillance, and Analysis. Rutgers University, Feb. 21, 2004

Elbert Y., Pavlin, J., Foster, V. Early Detection of Influenza Epidemics with Syndromic Surveillance. Poster at NATO Advanced Research Workshop Strengthening Influenza Pandemic Preparedness through Civil-Military Co-operation. St.Petersburg, Russia, May 9-11, 2003

Elbert Y. Burkom H. Time Series Modeling and Space-time Clustering of DoD-GEIS Data For Early Outbreak Detection. 23rd Army Science Conference, Orlando, FL, December 2002

Burkom H. Elbert Y. Performance Evaluation for Temporal Alerting Algorithm using ESSENCE syndromic Surveillance Data. 8th U.S. Army Conference on Applied Statistics, Raleigh, NC, November 2002

Brown K, Elbert Y, Foster VB, Pavlin JA. Identification and Investigation of Disease Outbreaks Generated by ESSENCE. Poster

presented at the National Syndromic Surveillance Conference, New York City, NY, September, 2002.

Eader S, Foster V, Elbert Y, Pavlin JA. Department of Defense Pharmacy Data: A Prescription for the Surveillance of Respiratory and Gastrointestinal Illness. Poster presented at the National Syndromic Surveillance Conference, New York City, NY, September, 2002.

Marsden-Haug N, Elbert Y, Hawksworth A, Foster V, Pavlin JA. A Comparison of Military Surveillance Systems for Early Detection of Naturally Occurring and Bioterrorism-based Epidemics of Febrile Respiratory Illness. Poster presented at the National Syndromic Surveillance Conference, New York City, NY, September, 2002.

Burkom H., Elbert Y. Biosurveillance Applying Scan Statistics with Multiple, Disparate Data Sources. Poster presented at the National Syndromic Surveillance Conference, New York City, NY, September, 2002.

Elbert Y. Burkom H. Temporal Algorithm Methodology for Essence Syndromic Surveillance Data. Poster presented at the National Syndromic Surveillance Conference, New York City, NY, September, 2002.

Milliken C, Pavlin JA, Murdock P, Elbert Y. Adapting the DoD-GEIS System (ESSENCE) for Behavioral Health Surveillance. Presented at the 5th Annual Force Health Protection Meeting, Baltimore, MD, August, 2002.

Lee J-E, Pavlin JA, Elbert Y, Kelley PW. Analysis of a Health Indicator Surveillance System: Its Ability to Detect Annual Influenza Activity for the 1999-2000 and 2000-2001 Seasons Compared to Traditional Surveillance Systems. Presented at the International Conference on Emerging Infectious Diseases, Atlanta, GA, March, 2002.

Burkom H, Elbert Y, Mostashari F, Pavlin JA, Kelley PW. Time Series Modeling and Space-Time Clustering of DoD-GEIS Data For Early Outbreak Detection. Poster presented at the International Conference on Emerging Infectious Diseases, Atlanta, GA, March, 2002.

Brown K, Pavlin JA, Mansfield J, Elbert Y, Foster V, Kelley PW. DoD Global Emerging Infections System (DoD-GEIS): Electronic Surveillance System for the Early Notification of Community-based Epidemics (ESSENCE) Surveillance Post 9/11/01. Poster presented at the International Conference on Emerging Infectious Diseases, Atlanta, GA, March, 2002.

Polyak CS, Elbert Y, Pavlin JA, Kelley PW. The Electronic

Surveillance System for the Early Notification of Community-based Epidemics (ESSENCE): GIS Modeling in an Early Detection Surveillance System for Bioterrorist and Natural Disease Threats. Poster presented at the International Conference on Emerging Infectious Diseases, Atlanta, GA, March, 2002.

PUBLICATIONS

Disease outbreak detection system using syndromic data in the greater Washington DC area

Authors: Lewis MD, Pavlin JA, Mansfield JL, O'Brien S, Boomsma LG, Elbert Y, Kelley PW. *Am J Prev Med.* 2002;23(3):180-186.

Department of Defense West Nile Virus Surveillance in 2002

Authors: Clara Josting Witt¹; Mary Brundage¹; Charles Cannon²; Kenneth Cox³; Tamara E. Clements⁴; Edwin D. Cooper⁵; Yevgeniy Elbert¹; George V. Ludwig⁴; Joseph A. Mangiafico⁴; Mark Malakooti⁶; Mellissa K. Miller²; Steve D. Osborn⁷; Ben Pagac²; Lenoir P. Ross⁸; Larry J. Shelton⁹; Alexandra Spring²; Patrick Kelley¹

Source: *Military Medicine*, June 2004, vol. 169, no. 6, pp. 421-428(8)

A Systems Overview of the Electronic Surveillance System for the Early Notification of Community-Based Epidemics (ESSENCE II)

Authors: Joseph Lombardo, Howard Burkom, Eugene Elbert, Steven Magruder, Sheryl Happel Lewis, Wayne Loschen, James Sari, Carol Sniegowski, Richard Wojcik, and Julie Pavlin

Source: *J Urban Health* 2003 80: i32-i42; doi:10.1093/jurban/jtg047

Role of Data Aggregation with Applications in Essence

Authors: Howard S. Burkom, Y. Elbert, A. Feldman, J. Lin

Source: *MMWR* September 24, 2004/53(Suppl.);67-73

References available upon request