

# LUCAS MILLER GLASS M.S.

450 E. Moyer St  
Philadelphia, PA 19125  
215-837-3983  
[lucasmglass@gmail.com](mailto:lucasmglass@gmail.com)

## WORK EXPERIENCE

Routine Recovery, LLC

Philadelphia, PA

September 2012 through Current

### **Managing Director - Statistician**

Routine Recovery assists biopharmaceutical companies to reduce costs to development clinical compounds by improving the efficiency of clinical trial design and execution through empirical evidence based methods

- Manage operations personnel
- Represent the operations team in sales meetings
- Implement Standard of Care cost savings models
- Perform predictive modeling on study completion times
- Conduct big data machine learning with industry cost data
- Perform dimensionality reduction with high dimensionality data implementing kernel PCA and other methods

TTC LLC (now IMS Health, Inc.)

Philadelphia, PA

October 2011 through September 2012

Contractor: July 2006 through December 2006

Contractor: March 2008 - August 2008

### **Statistician**

TTC is a pharmacoeconomic consultancy company that sells consulting services, benchmarking statistics, and benchmarking software specialized for clinical trials

- Developed predictive statistical models for clinical trial costs across the GrantPlan database including data from over 70 pharmaceutical company sources
- Performed unsupervised machine learning data mining techniques to uncover inefficiencies in clinical development programs
- Performed statistical analyses on client clinical trial grants and protocols to improve efficiency of clinical operations
- Reviewed protocols and statistical analysis plans and performed power calculations
- Assisted the Development of new biopharma clinical development data products

US Attorney's Office - Eastern District of Pennsylvania

Philadelphia, PA

August 2008 – October 2011

### **Investigative Statistician**

- Reviewed published studies for false and/or misleading information and clinical study designs
- Clinical trial expert on the prosecution teams
- Developed Statistical techniques to demonstrate and prove fraud within pharmaceutical healthcare fraud cases
- Developed econometric models for damages in the multibillion dollar Pfizer, AstraZeneca, J&J, and other unannounced cases
- Designed data mining techniques for fraud detection within Medicare databases

RiskMetrics

January 2007 through March 2008

Philadelphia, PA

### **Statistician/Owner**

RiskMetrics is a pharmaceutical drug safety company that specializes in the development and implementation of drug safety software and services

- Founded January 2007 and Sold December 2007
- Designed clinical and drug safety software
- Data Management: SQL Server, Access, SAS
- Conducted Integrated Summaries
- Sold RiskMetrics products and services
- Managed personnel, finances, and client relationships

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GALT ASSOCIATES

January 2004 through September 2006

Blue Bell, PA

### **Statistical Programmer/Analyst: SAS, SQL Server, Access**

Galt Associates is a pharmaceutical drug safety company that specializes in the development and implementation of drug safety software and services

- Designed and implemented Multi Gamma Poisson Shrinkage statistical signaling programs as a data mining package for pharmaceutical companies
- Designed and implement risk management tracking and monitoring systems using DAWN, TESS, and other datasets
- Evaluated and refined data-mining techniques for use in Halo®
- Supported the chief scientist
- Sat in as drug safety content expert during internal and external business development meetings

DATAEDGE LLC

Fort Washington, PA

### **Intern**

DataEdge is a consulting company that sells software to pharmaceutical companies. The software set the prices for drug research in the pharmaceutical industry

- Designed PICAS®
- Consulted for IMS by studying the prescribing trends of doctors investigating drugs in Phase III and Phase IV for FDA approval
- Summers of 1998 and 1999 fulltime; 1998 part-time during the school year

## EDUCATION

TEMPLE UNIVERSITY

Philadelphia, PA

- Ph.D. in Statistics Program enrolled 2013
- Includes coursework in supervised and unsupervised machine learning and data mining techniques
- Kaggle.com competitions

DREXEL UNIVERSITY

Philadelphia, PA

- M.S. in Biostatistics August 2010
- Includes coursework in statistics, epidemiology, and health policy
- Dean's Merit Scholar

BOSTON UNIVERSITY

Boston, MA

- B.A. in Physics May 2003.
- Includes coursework in computer science, economics, honors calculus, vector calculus, linear algebra, differential equations, creative writing, non-fiction creative writing, and poetry
- National Merit Scholar

## PUBLICATIONS

Glass HE, Difrancesco J, Glass LM. ClinicalTrials.gov is an Underutilized Source of Research Data about the Design and Conduct of Commercial Clinical Trials. *Therapeutic Innovation & Regulatory Science. Forthcoming.*

Matthews JT, Glass L. The Effect of Market-Based Economic Factors on the Adoption of Orphan Drugs Across Multiple Countries. *Therapeutic Innovation & Regulatory Science. March 2013, 47: 226.*

Davidson MH, Clark JA, Glass LM, Kanumalla A. Statin safety an appraisal from the adverse event reporting system. *Am J Cardiol 2006 Apr;97(8A)32C-43C.*

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Glass, Lucas. Data incompatibility of adverse event reports electronically submitted to the AERS database.  
Pharmacoepidemiology and Drug Safety Volume 17, Issue 2, Date: February 2008, Pages: 212-213.

### **COMPUTER SKILLS**

Extremely proficient in the use of MS Excel, MS Access, R, SPSS, SAS analytical platforms. Proficient in Proficient in the use SQL, Java, and Visual Basic programming languages. Proficient in Python Scripting Language. Proficient in MS Word, MS PowerPoint, and LaTeX.