Glenn Wright

Data Scientist | Oakland, CA

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**Summary**

A passionate and creative programmer, researcher, and statistician, with 13+ years of experience working with real-world health care data and practitioners.

**Professional Experience**

**Data Scientist / Senior Programming Consultant | Kaiser Permanente (2011 – present)**

* Daily analysis of electronic health record data, including handling of protected personal health information.
* Predictive modeling for blood glucose (HbA1c) levels and participation in weight loss programs, participation in smoking cessation programs, and thyroidectomy complication rates.
* Topic modeling for patient-doctor secure messages.
* Developed cross-regional SAS / SQL / Tableau reporting framework for Stage 1, 2, & 3 Meaningful Use reporting.
* Reporting lead for clinical reconciliation, summary of care transmissions, structured laboratory test results, and electronic medication administration records.
* Reporting liaison and strategist for Kaiser Permanente Colorado, Georgia, Northwest, and Hawaii.

**Data Consultant (freelance) | California Family Health Council (2013-2014)**

* Data analysis for *The InTOUCH Study: Increasing Retesting for Chlamydia and Gonorrhea*.

**Senior Statistician / Programmer | California Department of Public Health (2008-2011)**

* Lead programmer for analysis of sexually transmitted infections screening and treatment.
* Analysis for publication on effectiveness of human papillomavirus vaccine.
* Developed code and research methodology to estimate costs per birth in Medi-Cal.
* Developed proxies to impute pelvic inflammatory disease and reason-for-visit from claims data.
* Developed code for Fellegi-Sunter record linkage and hierarchical agglomerative clustering.
* Managed secure data transfers from Kaiser Permanente and Quest Diagnostics.

**Prior positions:**

* Auditor Evaluator | California Bureau of State Audits (2007-2008)
* Graduate Researcher | Institute for Public School Initiatives, University of Texas (2006-2007)
* Policy Research Team | Accenture Consulting / Capital Metro Transportation Authority of Austin, Texas / LBJ School of Public Affairs (2005-2006)
* Research Associate | Institute of Gerontology, University of Michigan (2003-2005)
* Research Assistant | Department of Radiation Oncology, University of Michigan Hospital (2002-2003)
* Research Assistant | Kidney Epidemiology and Cost Center, University of Michigan (2001-2002)
* Intern | Bureau of Economics, Federal Trade Commission (2000)

**Education**

**Online coursework** **(Columbia, Johns Hopkins, Stanford)** | Economics of Money & Banking I & II, Biostatistics II, Social and Economic Networks: Models & Analysis, Introduction to Natural Language Processing, Introduction to Databases, Introduction to Machine Learning (2011-present)

**Trainings (SAS Institute)** | Text Mining, Data Mining, Proportional Hazards Modeling, Bayesian Analysis (2012-present)

**Master of Public Policy | University of Texas, Austin** (2007)

**Bachelor of Arts, Economics with Honors | University of Michigan** (2001)

**Skills**

**Expert**

* SAS | Enterprise Miner, Text Miner, Business Intelligence, and all major programming features.
* SQL | Teradata SQL, SAS PROC SQL, Oracle PLSQL, MySQL, PostgreSQL, and SQLite.
* Multiple regression analysis, research methodology, and predictive modeling.
* Data visualization, including D3.js.
* Writing, including published fiction.

**Proficient**

* Scientific Python stack | NumPy, SciPy, scikit-learn, NLTK, gensim, BeautifulSoup, keras, and most major Python 2 & 3 features.
* JavaScript | front-end and back-end, Node.js, Babel, React, Redux, Express, D3, Flow.js, and most major ES6 and later features.
* R | dplyr and tidyr.
* Statistical techniques including proportional hazards, instrumental variables estimation, fixed & random effects models, random forests, Bayesian modeling, and convolutional neural networks.
* Other tools including Tableau, HTML/CSS, and GitHub.

**Familiar**

* C++/Arduino, Java/Processing, JIRA, ArcGIS.

**Publications | Presentations | Awards | Certifications**

* **Co-authored papers** | *American Journal of Public Health (2007)*, *Journal of the American Geriatric Society (2005)*, *Health Care Financing Review (2003*)
* **Invited Speaker in Databases & Database Integration** | Glenn Wright, “Probabilistic Record Linkage in SAS”, *Western Users of SAS Software,* San Diego, California, 2011.
* **Best Contributed Paper in Database & Data Integration** | Glenn Wright and Denis Hulett, “Transitive Record Linkage in SAS using Hash Objects, *Western Users of SAS Software,* San Francisco, California, 2010.
* **YHAT** | Presentations to statistical users group on proportional hazards modeling in SAS, random forest models in R, serial auto-correlation bias in partitioned data, and memory-backed data frames in R.
* **SAS Advanced Certification**
* **Competent Toastmaster**
* **2015 Independent Book Publisher Award** | Anthology contributor
* **Vice President for Membership** | University of Michigan Inter-Cooperative Council (a multimillion-dollar student housing corporation.)