Brian A Muller   **Resume**

CONTACT
INFORMATION   New York, NY   ☞ findingscience.com
                                                     ✉ bamuller@gmail.com

RECENT
EXPERIENCE

Director of Data   2/2016 - 5/2016
Off Grid Electric, Arusha Tanzania
- Spent a 3 month stint in East Africa working with a social good company
- Professionalized the Business Intelligence, Data Infrastructure, and Data Science efforts across the company.

Director of Data Science   4/2015 - 2/2016
Vox Media, Inc., Washington DC
- Founded, grew, and led the Data Science and Data Infrastructure teams
- Designed and implemented company's first data warehouse infrastructure
- Helped establish company-wide metrics for business performance evaluation
- Enabled product and editorial teams to shift to more data driven decision making
- Member of the Google AMP advisory group.

Co-founder / CTO   10/2012 - 4/2015
OpBandit, Inc., Washington DC / New York NY
- Aquired by Vox Media 4/2015
- Raised money from NY Times, Graham Holdings, and more
- Selected for first class of NY Times incubator timeSpace
- Served 200M+ optimized page views / month for top-tier publishers in 7 countries
- Designed and implemented big data infrastructure
- Created novel temporal and audience-based optimization algorithms

Head Data Scientist / Technical Lead   10/2010 - 10/2012
LivingSocial, Washington DC
- Co-founded Business Intelligence group, founder/director of Data Science team
- Direct efforts to create, execute, and evaluate hypothesis in areas ranging from loyalty program designs to user acquisition source comparisons
- Apply machine learning techniques for text classification, prediction, and analysis
- Responsible for data warehouse and associated reporting / analysis applications

Web Director   3/2010 - 10/2010
Washington Post / Foreign Policy Magazine, Washington DC
- Responsible for maintaining Drupal website, foreignpolicy.com
- Managed development/design team
- Developed software utility tools and websites for use in-house and by readers
- Worked closely with editorial staff to increase user engagement

Managing Partner / Chief Software Architect   1/2006 - 5/2009
Butterfat, LLC, Charleston SC
- Administered company production and development Linux servers
- Directed and assisted on projects that included creating custom Linux distributions, custom web development, and load balancing high-throughput Linux servers
- Clients included the State of South Carolina and the Washington Post

Instructor / Software Architect   6/2005 - 5/2007

Medical University of South Carolina, *Office of the Provost*, Charleston SC
- Administered portion of university Linux web servers
- Advised the Office of the Provost and the Office of the President
- Created web-based (often open source) projects to serve the general needs of the university (16,000 staff, as well as students)

EDUCATION   **M.S. in Bioinformatics**   12/2009
- *Department of Biostatistics, Bioinformatics, and Epidemiology* at the Medical University of South Carolina, Charleston SC
- Focused on text-mining, machine learning, and natural language processing
- Work resulted in three publications in notable peer reviewed journals
- Gained strong background in statistics and statistical theory
- Research based thesis: *Literature classification using a modified Ising Model*

B.A. in Computer Science   5/2005
- College of Charleston, Charleston SC. Graduated *cum laude*.
- Performed research using Artificial Neural Nets to analyze music and predict the human perception of pleasantness
- Led a research project to create a distributed replacement system for email (SMTP).

SPEAKING

- TV/Radio, including the Kojo Nnamdi Show on DC's NPR station
- Tech conferences, including PyGotham 2015 and 2016, International Federation for IT and Travel & Tourism, SC Ruby Conference, etc.
- Educational, like teaching a General Assembly class and speaking at the State of Data Science Education with the Chief Data Scientist for the United States
- Journalism conferences, like Hacks and Hackers, Hacking Journalism, and the international News Xchange conference
- Bioinformatics conferences, like the International Conference on Intelligent Systems for Molecular Biology
- Many meetups, including Data Science DC, NYC's Hack 'n' Tell, Data Innovation DC, DC Ruby, etc.

PUBLICATIONS

Adam J Richards, Brian Muller, Matthew Shotwell, L Ashley Cowart, Berbel Rohrer, and Xinghua Lu. "Assessing the functional coherence of gene sets with metrics based on the Gene Ontology graph." *Bioinformatics (Oxford, England)* **26**, i79–i87 (2010).

Brian Muller, Adam J Richards, Bo Jin, and Xinghua Lu. "GOGrapher: A Python library for GO graph representation and analysis." *BMC Res Notes* p. 122 (2009).

Brian Muller. *Literature Classification Using a Modified Ising Model.* Master's thesis, Medical University of South Carolina (2009).

Bo Jin, Brian Muller, Chengxiang Zhai, and Xinghua Lu. "Multi-label literature classification based on the Gene Ontology graph." *BMC Bioinformatics* **9**, 525 (2008).

Bing Pan, John C Crotts, and Brian Muller. "Developing Web-Based Tourist Information Tools Using Google Maps." *In* M Sigala, L Mich, and J Murphy (Editors), *Information and Communication Technologies in Tourism 2007* (Springer Vienna, 2007).

PATENTS   **A System for Online Content Optimization** (US 61/881,027; provisional)   2013