

Casey Herron

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EXPERIENCE

Data and Applied Scientist II, *Microsoft* **2015 - Present**

- Easing transition from AWS to Azure
- SPARK integration, HDInsight, Azure Data Lake, WebHDFS
- Continuation of the Revolution job transitioning to Microsoft

Data Scientist, *Revolution Analytics* **2013 - 2015**

- Wearing many hats within the RevoScaleR development team
- Designated Scrum Master
- Analytics tackled: Naive Bayes, Tree/Forest Algorithms, Linear and Logistic Regression, Chunking algorithms,
- Hadoop and other distributed platforms

Statistical Research Associate, *Fred Hutchinson Cancer Research Center* **2011 - 2013**

- Lead statistical support for study design, data collection, and data analysis for three HIV prevention clinical trials
- Statistical programming in R and SAS
- Developed strong written and verbal communication skills including ability to tailor content and delivery of results to a diverse audience regardless of their of statistical acumen
- Analysis efforts resulted in three publications and one abstract/poster at the 2011 Society for Clinical Trials meeting

University of Michigan, Ann Arbor, Michigan

Graduate Student Instructor, Department of Statistics **2011**

- Taught an undergraduate course, Introduction to Statistics and Data Analysis

Graduate Student Research Assistant, Department of Biostatistics **2010**

- Genetics Rotation: Developed analysis in R identifying regions of chromosomal loss associated with clinical outcomes in tumor samples from patients with Lung Cancer.
- Clinical Trials Rotation: Analyzed data from a clinical trial looking at the efficacy of an incontinence intervention in women with pelvic floor disorder in SAS.

University of Michigan, Department of Human Genetics, Ann Arbor, Michigan

Laboratory Specialist Intermediate **2007 - 2009**

- Successfully extracted DNA from many types of human tissues
- Developed and implemented protocols for sequencing DNA to look for germline mutations in families from the University of Michigan Cancer Genetics Clinic
- Entered data into an Oracle database and used SQL queries within SAS to summarize data for lab meetings and publications
- Contributions resulted in four publications

EDUCATION

University of Michigan, Ann Arbor, Michigan

M.S., Biostatistics, 2011

Kalamazoo College, Kalamazoo, Michigan

B.A., Mathematics, 2007

Semester Abroad, *University of Aberdeen, Aberdeen, UK*

TECHNICAL SKILLS

Languages: R, SAS, SQL

Databases: MySQL, Oracle, MS SQL Server, HSQL, PostgreSQL

Platforms: *NIX, Mac, Windows Distributed Platforms: Hadoop, Linux LSF, Teradata, and MS SQL Server

Web Applications: Amazon Web Services, Microsoft Azure, Jenkins, JIRA Misc: Subversion, git, ansible, bash scripting

Peer Reviewed Publications

- [1] M.G. Fowler, J. Coovadia, **C.M. Herron**, Y. Maldonado, T. Chipato, D. Moodley, P. Musoke, J. Aizire, K. Manji, L. Stanix-Chibanda, W. Fawzi, V. Chetty, L. Msweli, R. Kisenge, E.R. Brown, A. Mwatha, S.H. Eshelman, P. Richardson, M. Allen, K. George, P. Andrew, S. Zwierski, L.M. Mofenson, J.B. Jackson, *Efficacy and safety of an extended nevirapine regimen in infants of breastfeeding mothers with HIV-1 infection for prevention of HIV-1 transmission (HPTN 046): 18-month results of a randomized, double-blind, placebo-controlled trial*. J. Acquir. Immune. Defic. Syndr. 65, 366–374 (2014)
- [2] M. Mirochnick, T. Taha, R. Kreitchmann, K. Nielsen-Saines, N. Kumwenda, E. Joao, J. Pinto, B. Santos, T. Parsons, B. Kearney, L. Emel, **C.M. Herron**, P. Richardson, S.E. Hudelson, S.H. Eshelman, K. George, M.G. Fowler, P. Sato, L. Mofenson, *Pharmacokinetics and safety of tenofovir in HIV-infected women during labor and their infants during the first week of life*. J. Acquir. Immune. Defic. Syndr. 65, 33–41 (2014)
- [3] D.H. Watts, E.R. Brown, Y. Maldonado, **C.M. Herron**, T. Chipato, L. Reddy, D. Moodley, C. Nakabito, K. Manji, W. Fawzi, K. George, P. Richardson, S. Zwierski, H. Coovadia, M. Fowler, *HIV disease progression in the first year after delivery among African women followed in the HPTN 046 clinical trial*. J. Acquir. Immune. Defic. Syndr. 64, 299–306 (2013)
- [4] V.M. Raymond, **C.M. Herron**, T.J. Giordano, S.B. Gruber, *Familial renal cancer as an indicator of hereditary leiomyomatosis and renal cell cancer syndrome*. Fam. Cancer. 11, 115–121 (2012)
- [5] M.L. Marvin, S.M. Mazzoni, **C.M. Herron**, S. Edwards, S.B. Gruber, E.M. Petty, *AXIN2-associated autosomal dominant ectodermal dysplasia and neoplastic syndrome*. Am. J. Med. Genet. A. 155, 898–902 (2011)
- [6] L.S. Rozek, **C.M. Herron**, J.K. Greenson, V. Moreno, G. Capella, G. Rennert, S.B. Gruber, *Smoking, gender, and ethnicity predict somatic BRAF mutations in colorectal cancer*. Cancer Epidemiol. Biomarkers Prev. 19, 838–843 (2010)
- [7] J.K. Greenson, S.C. Huang, **C.M. Herron**, V. Moreno, J.D. Bonner, L.P. Tomsho, O. Ben-Izhak, H.I. Cohen, P. Trougouboff, J. Bejhar, Y. Sova, M. Pinchev, G. Rennert, S.B. Gruber, *Pathologic predictors of microsatellite instability in colorectal cancer*. Am. J. Surg. Pathol. 33, 126–133 (2009)