

Casey Herron

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EXPERIENCE

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

- Played key role in the remediation of RevolutionR for initial Microsoft release.
- Managed the migration of internal Hadoop clusters from Amazon Web Services to Microsoft Azure.
- Retained role as Scrum Master for the RevolutionR engineering team.
- Most recently lead the development effort to write CSV files to the Hadoop Distributed File System from within R.

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

- Lead scrum activities including stand-up, retrospective, and planning as Scrum Master.
- Contributed to the design, test, development, and documentation of new analytics functionality in R.
- Tested and documented new features across all supported platforms and in the process gained familiarity with Hadoop, Teradata, and Linux LSF.
- Headed effort to automate installation and configuration of Hadoop infrastructure on AWS.

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

- Lead statistician for three HIV prevention clinical trials.
- Responsible for developing study design, overseeing data collection, and performing data analysis.
- Statistical programming performed in R and SAS
- Analysis efforts resulted in three publications

Graduate Student Instructor, *University of Michigan, Dept. of Statistics* **2011**

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

Graduate Student Research Assistant, *University of Michigan, Dept. of Biostatistics* **2010**

- Genetics: Developed analysis in R to identify regions of DNA copy number variation in lung cancer samples.
- Clinical Trials: Used logistic regression in SAS to determine the efficacy of an intervention in women with pelvic floor disorder.

Laboratory Specialist Intermediate, *University of Michigan* **2007 - 2009**

- Managed the laboratory of Dr. Stephen Gruber
- Developed and implemented DNA sequencing methods to look for mutations in families from the University of Michigan Cancer Genetics Clinic
- Responsible for entering lab test results into an Oracle database and for using 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

Platforms: *NIX, Mac, Windows

Distributed Computing: Hadoop, Linux LSF, and Teradata

Web Applications: Amazon Web Services, Microsoft Azure, Jenkins, and JIRA

Productivity Tools: Subversion, Git, Ansible, and 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)