

Steve Hawley, MSc, EMHI

PROJECT LEADER, CAMH

With over ten years of experience in some of Canada's leading research institutions, I have strong analytical skills and broad experience with governing, managing, and analyzing data. I am a goal-oriented, strategic thinker whose work has had an institutional impact. My career interests are in the fields of health informatics, project management, and data science.

Contact Info

[redacted]

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Key Skills

Data Management
Data Governance
Data Analysis (R, SQL)
Reporting (Excel, Power BI)

Education

University of Toronto (2020)

Master of Health Informatics

Ryerson University (2014)

Continuing Education
Psychology

University of Guelph (2010)

Master of Science
Molecular Biology

University of Guelph (2008)

Bachelor of Science
Biochemistry (Co-op)

Career Summary

Project Leader

CAMH | Toronto, ON | 2019-07 to Present

- Lead for all REDCap clinical, research, and clinical trial electronic data capture at CAMH (>1000 users total)
- Chair of the CAMH REDCap Operations Committee and the Canadian REDCap Administrator Committee
- Developed standards, training materials, and governance for REDCap integration into the CAMH EHR culminating in over 80,000 clinical self-referral forms submitted and a first-author publication
- Prepared system-level reports for executive leadership using SQL and R to inform institutional decision making involving a COVID-19 vaccine tracking project for all CAMH staff (>7000 records)
- Created a common data elements library of clinical and research measures to support CAMH's strategic direction of measurement-based care

Research Methods Specialist

CAMH | Toronto, ON | 2016-03 to 2019-07

- Developed multi-user databases to manage large clinical data sets under tight deadlines for both internal and external stakeholders
- Provided essential IT, data analysis and data management support for researchers using REDCap, MS Access, SQL, R, and SPSS

Founder

STATconsulting | Toronto, ON | 2015-03 to 2019-06

- Offered independent consulting services for data analysis, scientific writing, web design and technological support
- Created "Photoshop for the Scientist", a series of video tutorials to outline the use of Adobe Photoshop for image data analysis gaining over 2500 subscribers and almost 200k views

Project Coordinator

SickKids (Chiu Lab) | Toronto, ON | 2014-12 to 2016-03

- Performed preclinical research evaluating novel anti-leukemia agents in a mouse xenograft model entailing anesthetic use, general mouse surgery, cell culture and flow cytometry analysis
- Created and managed a REDCap database for clinicians to organize and analyze clinical data spanning over 15 years

Project Coordinator

SickKids (Wilson Lab) | Toronto, ON | 2012-11 to 2014-12

- Adhered to Good Laboratory Practices (GLP) during pre-clinical histological analysis of next-generation medical devices
- Independently performed whole organ and cell-based cardiology research and participated in manuscript preparation
- Performed system admin duties to maintain a small local computer network

Technologist

SickKids (Sherman Lab) | Toronto, ON | 2011-09 to 2012-11

- Conducted microbiome research in both animal and cell culture models employing many standard molecular biology methodologies
- Created a robust and user-friendly qPCR strategy and data management system which became standard lab practice

Laboratory Technician

University of Guelph (Jones Lab) | Guelph, ON | 2011-01 to 2011-08

- Continued research from Master's degree in nervous system development using mouse model and cell culture systems
- Developed FileMaker Pro databases to manage lab inventory

Publications

HAWLEY SP, Yu J, Bogetic N, Potapova N, Wakefield C, Thompson M, Kloiber S, Hill S, Jankowicz D, Rotenberg D. Digitization of Measurement Based Care Pathways in Mental Health through REDCap and Electronic Health Record Integration: Development and Usability Study. *Journal of Medical Internet Research*. 2021 May 20;23(5):e25656.

Polillo A, Voineskosa A, Foussias G, Kidd S, Sav A, **HAWLEY SP**, Soklaridis S, Stergiopoulos, V, Kozloff N. Exploring engagement of patients with psychosis and their families in research using digital tools: Recruitment and survey completion in an early psychosis intervention program. *JMIR Mental Health*. 2021 May 31;8(5):e24567.

Wilson GJ, McGregor J, Conditt G, Shibuya M, Sushkova N, Eppihimer MJ, **HAWLEY SP**, Rousselle SD, Huibregtse BA, Dawkins KD, Granada JF. Impact of Bioresorbable versus Permanent Polymer on Long-Term Vessel Wall Inflammation and Healing: A Comparative Drug Eluting Stent Experimental Study. *EuroIntervention*. 2018 Feb 20;13(14):1670-1679

Wilson GJ, Marks A, Berg KJ, Eppihimer M, Sushkova N, **HAWLEY SP**, Robertson KA, Knapp D, Pennington DE, Chen YL, Foss A, Huibregtse B, Dawkins KD. The SYNERGY Biodegradable Polymer Everolimus Eluting Coronary Stent: Porcine Vascular Compatibility and Polymer Safety Study. *Catheterization and Cardiovascular Interventions*. 2015 Nov 15;86(6):E247-57

Wilson GJ, Winsor-Hines D, Tunstall R, Wilson P, **HAWLEY SP**, Eskandarian M, Svajger G, Davis L, Huibregtse B. Bipolar Multi-Electrode Balloon Catheter Radiofrequency Renal Denervation with the Vessix System: Preclinical Safety Evaluation. *Eurointervention*. 2015 Feb;10(10):1239-46.

Smith GST, Samborska B, **HAWLEY SP**, Klainman J, Jones N, Gillis JMT, Boggs J, Harauz G. Nuclear-localized 21.5-kDa myelin basic protein promotes oligodendrocyte proliferation and neurite outgrowth in co-culture unlike the plasma membrane-associated 18.5-dDa isoform. *Journal of Neuroscience Research*. 2013 Mar;91(3):349-62

Ho NK, **HAWLEY SP**, Ossa JC, Mathieu O, Tompkins TA, Johnson-Henry KC, Sherman PM. Immune Signaling Responses in Intestinal Epithelial Cells Exposed to Pathogenic *Escherichia coli* and Lactic Acid-Producing Probiotics. 2013 Jun 1;4(2):195-209

Rodrigues DM, Sousa AJ, **HAWLEY SP**, Vong L, Gareau MG, Kumar SA, Johnson-Henry KC, Sherman PM. Matrix metalloproteinase 9 contributes to gut microbe homeostasis in a model of infectious colitis. *BMC Microbiology*. 2012 Jun 13;12(1):105.

Scott RP, **HAWLEY SP**, Du J, Ruston J, Brakebusch C, Jones N, Pawson T. Podocyte-Specific Loss of Cdc42 Leads to Congenital Nephropathy. *Journal of the American Society of Nephrology*. 2012 Apr 10.

HAWLEY SP, Wills MKB, Rabalski AJ, Bendall AJ, Jones N. Expression patterns of ShcD and Shc family adaptor proteins during mouse embryonic development. *Developmental Dynamics*. 2011 240(1):221-31

HAWLEY SP, Wills MKB, Jones N. Adenovirus-mediated Genetic Removal of Signalling Molecules in Cultured Primary Mouse Embryonic Fibroblasts. 2010 JoVE.
<http://www.jove.com/index/details.stp?id=2160>, doi: 10.3791/2160

Expertise

Data management (MS Access, REDCap, planning)	● ● ● ● ● ● ●
Writing (briefing notes, policy, data governance)	● ● ● ● ● ● ●
Adobe Photoshop	● ● ● ● ● ● ●
Teaching (in class, video tutorials, documentation)	● ● ● ● ● ● ●
Data cleaning and analysis (SQL, R, SPSS)	● ● ● ● ● ● ○
Process mapping (BPMN, data flow)	● ● ● ● ● ● ○
Project management (Stakeholder engagement)	● ● ● ● ● ● ○
Data Visualization (Excel, Power BI, Tableau)	● ● ● ● ● ● ○
Human factors design	● ● ● ● ● ○ ○
Statistics (multiple regression, ANOVA)	● ● ● ● ● ○ ○
Machine Learning (regression, classification, clustering)	● ● ● ● ○ ○ ○
Adobe Creative Cloud (Premier, InDesign, Illustrator)	● ● ● ● ○ ○ ○

Awards

CIHR Master's Award: \$17,500 University of Guelph, Guelph, ON	2009- 2010
Heart and Stroke Foundation of Ontario Master's Award: \$18,000 University of Guelph, Guelph, ON	Declined in favour of CIHR award
Coop Student of the Year Award: \$500 University of Guelph, Guelph, ON	2008
NSERC USRA: \$4600 University of Guelph, Guelph, ON	2008
Industrial NSERC USRA: \$4600 Chemtura Corp., Guelph, ON	2007
Queen Elizabeth II Aiming for the Top Scholarship: \$500 University of Guelph, Guelph, ON	2004- 2008
University of Guelph Entrance Scholarship: \$2000 University of Guelph, Guelph, ON	2004
R. E. Engal Most Outstanding Student Award: \$500 Earl of March Secondary School, Kanata, ON	2004
Anita Seguin Valedictorian Award Earl of March Secondary School, Kanata, ON	2004