

Michel G. Arsenault

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KEY QUALIFICATIONS

- Detail-oriented biologist with a solid scientific training
- Ability to design and perform experiments, followed by proper analysis and interpretation of data and generation of reports
- Experienced in troubleshooting methods and developing experimental protocols including genotyping PCR, RT-qPCR, and immunofluorescence
- Adapted a method for quantification of glomerular number in mouse kidneys using free software and tools available in-house. Cost savings of \$20k+ for a single experimental set
- 8+ years working with mice as animal models, conditional knockouts, breeding schemes to obtain triple transgenics, intraperitoneal injections, primary cell and kidney organ cultures

EDUCATION

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|------|---|
| 2016 | Doctorate of Philosophy in Biomedical Science
University of Prince Edward Island (UPEI), PEI
GPA: 4.25/4.30 ▶ 2 first author and 1 co-author publication |
| 2008 | Master of Science in Experimental Medicine
McGill University, QC
GPA: 3.75/4.00 ▶ 1 co-author publication |
| 2005 | Bachelor of Science with honours in Biology
University of Ottawa, ON
GPA: 7.0/10.0 |

WORK EXPERIENCE

- 2016 – Present **Postdoctoral Fellow** – Dept. of Human Applied Science, UPEI, PE
- 2008 – 2009 **Research Assistant / Lab Technician** – Dept. of Physics, UPEI, PE
- Worked with minimal supervision in a field unrelated to training
 - Presented data generated at an international conference and published 5-page research publication in conference proceeding
 - Wrote two technical procedures documents
 - Prepared an animal use protocol
 - Proposed and developed approach to align optoacoustic/ultrasound data with 3D reconstruction of mouse abdomen

SKILLS

- Solid communication skills – multiple awards won for scientific poster and seminar presentations. Silver Award at CIHR National Student Research Poster Competition
- Over the past 13 years, gained technical and theoretical knowledge of a vast array of techniques in molecular and cellular biology
- Basic scripting and Macros for automation of repetitive tasks in data and image analysis
- Self-trained in the use of ImageJ/Fiji image processing software – used to adapt method for quantification of glomerular number in mice. Published in CJKHD 2014
- Experienced in performing studies in mice, using explant cultures, primary cell cultures and cell lines – from design through to data analysis and interpretation of results
- Proficient in general lab upkeep and organization, training of others on protocols and use of equipment – result of having trained and worked in smaller labs

LEADERSHIP ACTIVITIES

2012 - 2015

President - Men's Service Organization, Charlottetown, PE

- Presided and chaired planning meetings
- Planned, coordinated and assisted with multiple service activities
- Planned and coordinated social activities
- Initiated and facilitated "Daily Dose" conversational English program for the community
- Assisted individuals with setting personal goals for education and employment

2009 – 2011

Volunteer Church Representative, Louisiana, USA

- Selected to supervise and train 120 fellow representatives
- Conducted weekly training meetings
- Planned, organized and taught workshops on goal setting, relationship building and leadership skills
- Facilitated the resolution of conflicts and other volunteer issues using effective interpersonal skills