

Tristan Jones | Curriculum Vitae

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Education

University of Calgary <i>Doctor of Medicine</i> Undergraduate Medical Education – Leaders in Medicine program	Calgary, AB 2011 – 2014
University of Calgary <i>Master of Science</i> Biomedical Engineering – Leaders in Medicine program	Calgary, AB 2009 – 2014
University of Calgary <i>Bachelor of Science</i> Electrical Engineering (Internship Program)	Calgary, AB 2004 – 2009

Postgraduate Specialty Training

University of British Columbia <i>Emergency Medicine</i> PGY-4/Chief Resident, 5-year Royal College residency program <i>Enhanced Competency Training: Disaster Medicine</i>	Victoria, BC 2014 – 2019
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Medical Licensure

College of Physicians and Surgeons of British Columbia <i>Postgraduate Educational License - Clinical Associate</i>	2014 – pres.
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MSc Thesis

Title: *Development and Microscaling of a Novel Glucose Biosensor for Application in a Minimally Invasive Sampling Platform*

Supervisors: Dr. Martin Mintchev, Dr. Viola Birss, and Dr. Karen Khaler

Description: Details the design, development, and testing of a novel glucose biosensor utilizing iridium-oxide nanoparticles, as well as the supporting electronics. This sensor integrates with a device currently under development to measure blood glucose levels in a minimally-invasive manner.

Languages

English: Written & Spoken	<i>Fluent</i>
French: Written & Spoken	<i>Fluent</i>

Employment

Fortis Alberta

Electrical Engineering Summer Student

Responsible for assessing and rigorously testing large swathes of the southern Alberta electrical distribution grid. Used a variety of industry tools in conjunction with power engineering principles to ensure adequate performance of the existing infrastructure.

Airdrie, AB

Summer 2009

Asea Brown Boveri (ABB) Switzerland

Electrical Engineering Intern

Selected for a year-long internship in Baden, Switzerland between 3rd and 4th year of engineering. Responsible for designing and implementing a substation control system simulator at ABB.

Baden, Switzerland

2007 – 2008

CPU Technologies, Inc.

Software Developer

Worked several summers at CPU Technologies as the principal developer of new internal software applications for billing and customer service. Also responsible for maintaining existing business-critical applications.

Calgary, AB

2004 – 2006

Selected Clinical Rotations - Residency

Intensive Care Unit

Vancouver General Hospital

Senior Resident

Vancouver, BC

May. 8 – Jun. 30, 2017

Pediatric Emergency Medicine

Alberta Children's Hospital

Senior Resident

Calgary, AB

Feb. 14 – Mar. 12, 2017

Adult Emergency Medicine

Foothills General Hospital

Senior Resident

Calgary, AB

Jan. 16 – Feb. 13, 2017

Trauma Service

Royal Columbian Hospital

Junior Resident

New Westminster, BC

Dec. 15, 2014 – Jan 12, 2015

Selected Clinical Rotations - Medical School

Emergency Medicine

University of Toronto

Toronto, ON

Apr. 29 – May 26, 2013

Cardiology Ward

University of Alberta

Edmonton, AB

Apr. 1 – Apr. 14, 2013

Cardiac Care Unit

University of Calgary

Calgary, AB

Mar. 18 – Mar. 31, 2013

Emergency Medicine

University of Calgary

Calgary, AB

Mar. 4 – Mar. 17, 2013

Rural Emergency Medicine

Mineral Springs Hospital

Pre-Clerkship Elective

Banff, AB

Dec. 2012 – Feb. 2013

Anaesthesia

University of Calgary

Pre-Clerkship Elective

Calgary, AB

Oct. – Nov. 2012

General Internal Medicine

Raleigh Fitkin Memorial Hospital
Pre-Clerkship Elective

Manzini, Swaziland

Jul. 10 – Jul. 23, 2012

Emergency Medicine

Raleigh Fitkin Memorial Hospital
Pre-Clerkship Elective

Manzini, Swaziland

Jun. 25 – Jul. 9, 2012

Disaster Medicine Deployments

Disaster Education

British Columbia Mobile Medical Unit

Creston, BC

Sep. 11 - Sep. 13, 2016

Part of a multidisciplinary team that taught disaster medicine concepts and mass casualty incident management to a local nursing and physician group.

Disaster Simulation

British Columbia Mobile Medical Unit

Port Alberni, BC

Jun. 8, 2016

Multiagency disaster simulation of a magnitude 9.0 earthquake striking off of the west coast of Vancouver Island. Participated as a responding physician in the mobile medical unit on scene.

Disaster Education Session

British Columbia Mobile Medical Unit

Victoria, BC

Oct. 16 - Oct. 17, 2016

Disaster education session for primary care physicians, nurses, and first responders, focused on medical topics, simulation, and incident command system. Responsible for teaching casting, suturing, and running trauma simulations.

Publications

Jones, Tristan and Patina Webber (2017). "Up and Out – A Case Report of Delayed Metoclopramide-induced Oculogyric Crisis in a 17 year-old." *Canadian Family Physician Journal* (submitted, in review).

Jones, Tristan, Adam Thomas, Chris Lipp, and Justin Roos (2016-2017). *Core Rosens and Clinical Knowledge Podcast (112 Episodes)*. Online. URL: <http://www.canadiem.org/crackcast>.

Jones, Tristan (2015). *The Boring Guide to ECG's. Fascicular blocks*. BoringEM. URL: <http://boringem.org/2015/07/13/fascicular-blocks/>. Peer-reviewed.

Jones, Tristan (2014). "Development and Microscaling of a Novel Glucose Biosensor for Application in a Minimally Invasive Sampling Platform". Master of Science. University of Calgary.

Crowder, K, **Jones, T**, D Wang, S Clark, G Innes, E Lang, J McMeekin, K Lonergan, and A McRae (2012). "The Effect of Implementing High-Sensitivity Troponin Testing on Operational Efficiency in Three Large Urban Emergency Departments". In: *Canadian Journal of Cardiology*. Vol. 28. 5, S135.

Jones, Tristan, Karan Kaler, Michel Fattouche, and Martin Mintchev (2009). "Wireless Communication and Control System for Portable Micro-Electromechanical Device for Real-Time Blood Sampling and Glucose Analysis (Electronic Mosquito)". In: *Information Technology & Knowledge* 3.

Conference Presentations

Leaders in Medicine Research Symposium

Poster

"Novel Glucose Biosensor and Sampling Platform Allowing Pseudo-continuous, Minimally-invasive Monitoring – The Electronic Mosquito"

Calgary, AB

Nov. 8, 2013

Libin Cardiovascular Institute Research Day

Poster

"Implementation of a highly-sensitive Troponin T assay results in more patients discharged from the emergency department while maintaining patient safety"

Calgary, AB

Mar. 28, 2013

Canadian Cardiovascular Congress

Podium Presentation

"The Effect of Implementing High-Sensitivity Troponin Testing on Operational Efficiency in Three Large Urban Emergency Departments"

Toronto, ON

Oct. 27 – 28, 2012

ITHEA 2010

Podium Presentation

"Wireless Communication and Control System for Real-Time Blood Sampling and Glucose Analysis"

Varna, Bulgaria

Jun. 25 – 30, 2010

Teaching

University of British Columbia

Clinical Instructor

Island Medical Program

Victoria, BC

Fall 2015 – present

BC Mobile Medical Unit

Clinical Instructor

Disaster Medicine

British Columbia

Fall 2016 – present

Rural and Remote Rounds

Clinical Instructor

Emergency Medicine Simulation

Victoria, BC

Fall 2015 – present

University of Calgary

Senior Teaching Assistant

ENGG 325 – "Electric Circuits and Systems"

Calgary, AB

Fall 2010

University of Calgary

Teaching Assistant

ENEL569 – "Instrumentation Design"

Calgary, AB

Winter 2010

University of Calgary

Teaching Assistant

ENGG 325 - "Electric Circuits and Systems"

Calgary, AB

Fall 2009

Awards

Columbian Emergency Physicians Association (CEPA)

Herb Parkin Memorial Award (\$ 3000)

2017

Faculty of Medicine, University of Calgary

Conference Travel Award

Nov. 2012

Government of Alberta

Alberta Graduate Student Scholarship

2011

Faculty of Graduate Studies, University of Calgary*Conference Travel Award*

Jun. 2010

Lake Louise Ski Patrol*Jim Frew Memorial Load-and-Go Award*

2009 – 2010

Electrical & Computer Engineering, University of Calgary*TA of the Month Award*

Nov. 2009

Current Projects

BC Mobile Medical Unit**British Columbia***Clinical Educator/Course Curriculum Designer*

2016 – pres

Deploy with the BC MMU to various hospitals and municipalities across the province to provide education on disaster medicine and clinical topics. Also developing a flexible disaster medicine course curriculum to be delivered province-wide.

VIHA Emergency Management Committee**British Columbia***Committee Member*

2017 – pres

Participate in the design and implementation of the Vancouver Island Health Authority's disaster and emergency plan.

Rural and Remote Rounds**Victoria, BC***Clinical Educator*

2016 – pres

Assist in delivering monthly emergency and critical care simulation-based education to family physicians that work in rural and remote settings. Designed, implemented, and directed a disaster medicine simulation scenario with multiple actors and cases.

Core Rosens and Clinical Knowledge Podcast**Victoria, BC***Co-Founder*

2015 – pres

Co-founded and currently manage CRACKCast, a free and open-access medical education podcast covering the gamut of emergency medicine. The podcast has been downloaded in excess of 250,000 times. <http://www.canadiem.org/crackcast>

Vancouver Island Regional Science Fair**Victoria, BC***Project Judge & Team Leader*

2016 – pres

Act as the team leader for a secondary-level judging team. Responsible for interacting with students, supporting and educating them, and scoring projects.

Completed Projects

Journal of Undergraduate Research in Alberta**University of Calgary, Calgary, AB***Founder and Editor-in-Chief*

2009 – pres.

Founded and organized a journal focused on publishing peer-reviewed undergraduate research performed at the University of Calgary. Meeting with various faculty and student groups in order to develop funding and awareness as well as organizing guidelines and soliciting article submissions from interested undergraduates. Submissions are peer-reviewed, revised, and then published electronically as well as in paper form. <http://www.ucalgary.ca/jura>

Calgary Medical Students' Association**University of Calgary, Calgary, AB***Yearbook Co-Editor-in-Chief*

2013 – 2014

Coordinated fundraising, design, production, and distribution of the yearbook for the Calgary MD Class of 2014. This involved coordinating both advertising sales agencies and publishing houses, as well as compiling photos from a large number of students in the class.

Calgary Youth Science Fair**Calgary, AB***First and Second Round Project Judge*

2009 – 2014

Judge science projects at the Calgary science fair in the secondary (junior and senior high) category. Responsible for evaluating the scientific merit of the projects as well as for educating the students and encouraging their interest in science.

Canadian Ski Patrol System

Lake Louise, AB

Lake Louise Ski Patroller/VP of Rookies

2008 – 2014

Responsible for on-mountain safety and public outreach as well as for providing first-response medical care to victims of mild to severe trauma on the mountain. As VP of Rookies until 2012, I organized and directed the recruitment, testing, and training of new ski patrollers. I also coordinate the annual air-ambulance simulation training day that takes place at the hill.

The Calgary Guide to Understanding Disease

University of Calgary, Calgary, AB

Content Creator/Cardiology System Editor

2012 – 2013

Founding member and content creator for a new reference for medical students, as well as editor for all cardiology content. The Calgary Guide presents the pathophysiology underlying disease processes in graphical flowchart form. Responsible for creating intuitive explanatory diagrams of various disease processes, reviewing other content creator's work, and coordinating reviewing and publication of the cardiology section of the guide. <http://www.thecalgaryguide.com>

Undergraduate Medical Education Class of 2014

University of Calgary, Calgary, AB

Cinematography and Video Editing

2012 – 2013

Directed filming and acted as principal editor for the Class of 2015's interview video and naming ceremony video. This involved coordinating a large number of people on set, as well as technical skills for audio and video capture. Also assisted the non-profit for-charity Kimmett Hockey Cup with shooting and editing of their 2014 promotional video.

Wilderness Medicine Interest Group

University of Calgary, Calgary, AB

Director

2012 – 2013

Organized several events for a group of students interested in outdoor activity and wilderness medicine. This included organizing a lecture by Dr. Stuart Hutchison regarding his mountain climbing, as well as high-altitude medicine topics.

University of Calgary Aboriginal Outreach Program

University of Calgary, Calgary, AB

General Volunteer

2011 – 2013

Participated in both trips to the grade school in Morley as well as student visits to the medical school in Calgary. These visits of approximately a half-day each consisted of coordinating a variety of medical-related activities for the students as well as answering their questions regarding medicine and medical careers.

An Apple a Day Project

University of Calgary, Calgary, AB

Co-founder

2011 – 2012

The "An Apple a Day" project was founded as a project of the Calgary Pediatrics Interest Group to tackle childhood obesity through raising awareness of healthy eating options. Founding this project involved developing a curriculum, training volunteers, and coordinating with Calgary-area schools to get volunteers into the classroom. <http://www.ucalgary.ca/anappleaday>

Association for the Rehabilitation of the Brain Injured (ARBI)

Calgary, AB

Program-Implementation Volunteer

2009 – 2011

ARBI provides physical and occupational rehabilitation services to individuals who have suffered a traumatic brain injury or a stroke. Volunteers are responsible for assisting clients with their therapy regimens under the direction of the staff physical and occupational therapists.

Biomedical Engineering Graduate Students' Association

University of Calgary, Calgary, AB

Director of Conferences

2010 – 2011

In addition to being a founding member of the executive, responsibilities included coordinating all of BMEG's conference activities as well as assisting in organizing the annual Alberta Biomedical Engineering conference.

Interests and Hobbies

- o Photography (<http://photography.tdjones.ca>)
- o Software Development
- o Medical Education
- o Skiing
- o Soccer
- o Electronic Design
- o Cinematography
- o Hiking
- o Sailing