TALON CHANDLER
CURRICULUM VITÆ

Contact Information

Address:	2N-1003 East 53rd Street Chicago, IL 60615
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Education

B.A.Sc. Engineering Physics
With Distinction
Minor: Electrical Engineering
GPA: 3.93/4.00
University of British Columbia
2010 – 2015

Research Interests

Magnetic resonance imaging, interventional radiology, imaging physics, nuclear magnetic resonance, magnetization transfer, quantitative myelin detection, myelin microstructure, health care optimization, Monte Carlo decision making.

Research Experience

UBC MRI Research Centre
Supervisors: Dr. Alex MacKay & Dr. Carl Michal
April 2014 – Present

- Designed and performed nuclear magnetic resonance experiments to study inhomogeneous magnetization transfer as a new method of myelin detection.
- Delivered talk: "NMR Study of Inhomogeneous Magnetization Transfer".

UBC Centre For Operations Excellence
Supervisor: Dr. Steven Shechter
April 2013 – Present

- Designed and implemented a Monte Carlo model for evaluating decision policies for initiating dialysis on kidney transplant patients.
- Working paper: "The Cost-Effectiveness of Arteriovenous Fistula Referral Policies in Chronic Kidney Disease".

Employment History

Kardium Inc.
Burnaby, BC
September – December 2013

- Designed and performed radio frequency ablation experiments to study electrical signal propagation in heart tissue.
- Analyzed CT, MRI, and X-ray data to determine heart chamber sizes in populations.

SRK Consulting Inc.
Vancouver, BC
January – April 2012

- Designed a finite element fluid dynamics model to study low oxygen areas near waste rock dumps at mine sites.
- Applied Monte Carlo methods to model mine site water and contaminant flows.

Project Experience

Radio Frequency Network Analyzer
Supervisor: Dr. Carl Michal
September – December 2014

- Designed and constructed a low cost radio frequency network analyzer for use with nuclear magnetic resonance experiments.

Single Cell Electroporator
Supervisor: Dr. Kelly Sakaki
January – April 2014

- Designed and constructed a single cell electroporator system for use with two photon microscopy experiments.

Awards

Eastern Irrigation District Graduate Scholarship	2014
NSERC Undergraduate Research Award	2014
NSERC Industrial Undergraduate Research Award	2013
UBC President's Entrance Scholarship	2010
Alexander Rutherford Scholarship	2010
Brooks Junior Citizen of the Year Scholarship	2010

Computing Skills

Languages: C, C++, Python, UNIX shell scripting
Applications: LaTeX, MATLAB, ArcGIS
Operating Systems: GNU/Linux, OSX, Windows

Other Activities

Ultramarathon trail running, ultimate, SCUBA diving, apiculture.