TALON CHANDLER
CURRICULUM VITÆ

Biographical Information

Born:	June 24, 1993 in Calgary, Alberta
Citizenship:	Canada
Address:	2N-1003 East 53rd Street Chicago, Illinois 60615
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Education

(In Progress) Ph.D. Medical Physics 2015–2020
Thesis: "Novel Geometries For Polarized Light Microscopy"
Advisor: Dr. Patrick La Rivière
University of Chicago

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

Publications

[1] Day, K. J., La Rivière, P. J., **Chandler, T.**, Bindokas, V. P., Ferrier, N. J., Glick, B. S., "Improved deconvolution of very weak confocal signals," *To appear in F1000Research*, 2017.

[2] Shechter, S. M., **Chandler, T.**, Skandari, M., Zalunardo, N., "Cost-effectiveness analysis of vascular access referral policies in chronic kidney disease," *To appear in the American Journal of Kidney Disease*, 2017.

Research Experience

La Rivière Lab, University of Chicago 05/2016–
Advisors: Dr. Patrick La Rivière & Dr. Rudolph Oldenbourg
Topics: Polarized light microscopy, 3D reconstruction

Kao Lab, University of Chicago 01/2016–04/2016
Advisor: Dr. Chien-Min Kao
Topics: PET detectors, statistical signal processing

MRI Research Centre, University of British Columbia 04/2014–09/2015
Advisors: Dr. Alex MacKay & Dr. Carl Michal
Topics: NMR, MRI, inhomogeneous magnetization transfer

Haas Lab, University of British Columbia 01/2014–04/2014
Advisor: Dr. Kelly Sakaki
Topics: Single cell electroporation, two-photon microscopy

Centre For Operations Excellence, University of British Columbia 04/2013–09/2015
Advisor: Dr. Steven Shechter
Topics: Health care optimization, Monte Carlo simulation

Employment History

Kardium Inc., Burnaby, BC 09/2013–12/2013
Junior Engineer
Topics: Cardiac ablation, tissue conductivity, image analysis

SRK Consulting Inc., Vancouver, BC 01/2012–04/2012
Junior Engineer
Topics: Waste water management, Monte Carlo simulation

Teaching

Medical Imaging 1, University of Chicago 2017
Teaching Assistant
Topics: X-ray imaging, MRI, image restoration

Mathematics For Medical Physics, University of Chicago 2016
Teaching Assistant
Topics: Linear systems theory, stochastic processes, image reconstruction

Awards

University of Chicago Biological Sciences Division Graduate Fellowship	$30k	2016
Eastern Irrigation District Graduate Scholarship	$2k	2014
NSERC Undergraduate Research Award	$4k	2014
NSERC Industrial Undergraduate Research Award	$4k	2013
Interpipeline Discovery Scholarship	$2k	2011
UBC President's Entrance Scholarship	$1.5k	2010
Alexander Rutherford Scholarship	$2.5k	2010
Junior Citizen of the Year, City of Brooks	-	2010

Computing

Top Language:	Python
Competent Languages:	C, C++, Bash, MATLAB
Familiar Languages:	R, Mathematica, HTML/CSS
Tools:	GNU Emacs, LaTeX, git, OpenGL, ImageJ

Other Activities

Ultramarathon running	12 races $\geq$ 26.2 miles
SCUBA diving	15 open water dives, $\sim$600 minutes underwater
Apiculture	