

# 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

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### 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.
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### 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, nuclear detectors

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

<b>Haas Lab</b> , University of British Columbia	01/2014–04/2015
Advisor: Dr. Kelly Sakaki	
Topics: Single cell electroporation, 2-photon microscopy	
<b>Centre For Operations Excellence</b> , University of British Columbia	04/2013–09/2015
Advisor: Dr. Steven Shechter	
Topics: Health care optimization, Monte Carlo simulation	

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## Employment History

<b>Kardium Inc.</b> , Burnaby, BC	09/2013–12/2013
Junior Engineer	
Topics: Cardiac ablation, tissue conductivity, image analysis	
<b>SRK Consulting Inc.</b> , Vancouver, BC	01/2012–04/2012
Junior Engineer	
Topics: Waste water management, Monte Carlo simulation	

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## Teaching

<b>Medical Imaging 1</b> , University of Chicago	2017
Teaching Assistant	
Topics: X-ray imaging, MRI, image restoration	
<b>Mathematics For Medical Physics</b> , University of Chicago	2016
Teaching Assistant	
Topics: Linear systems theory, stochastic processes, image reconstruction	

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## 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

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## Computing

<b>Top Language:</b>	Python
<b>Competent Languages:</b>	C, C++, Bash, MATLAB
<b>Familiar Languages:</b>	R, Mathematica, HTML/CSS
<b>Tools:</b>	GNU Emacs, L <sup>A</sup> T <sub>E</sub> X, git, OpenGL, ImageJ

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## Other Activities

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