TALON CHANDLER

CURRICULUM VITÆ

Biographical Information

Born: June 24, 1993 in Calgary, Alberta

Citizenship: Canada

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Education

[2] (In Progress) Ph.D. Medical Physics

2015-2020

Thesis: "Three-dimensional fluorescence orientation microscopy"

Advisor: Dr. Patrick La Rivière

University of Chicago

[1] B.A.Sc. Engineering Physics

2010-2015

with Electrical Engineering Minor, with Distinction

GPA: 3.93/4.00

University of British Columbia

Publications

- [3] Chandler, T., Mehta, S., Shroff, H., Oldenbourg, R., La Rivière, P. J., "Single-fluorophore orientation determination with multiview polarized illumination: Modeling and microscope design," *Optics Express*, vol. 25, no. 25, 2017. DOI: 10.1364/0E.25.031309. PDF
- [2] 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," *F1000Research*, vol. 6, no. 787, 2017. DOI: 10.12688/f1000research.11773.1. 🔁 PDF
- [1] Shechter, S. M., **Chandler, T.**, Skandari, M., Zalunardo, N., "Cost-effectiveness analysis of vascular access referral policies in CKD," *American Journal of Kidney Diseases*, vol. 70, no. 3, pp. 368–376, 2017. DOI: 10.1053/j.ajkd.2017.04.020. PDF

Presentations

- [4] "Mapping molecular order in living organisms using polarized light microscopy" 10/2017 with Rudolf Oldenbourg, University of California, Berkeley
- [3] "Mapping molecular order in living organisms using polarized light microscopy" 10/2017 with Rudolf Oldenbourg, SCIEN Colloquium, Stanford University
- [2] "Evaluating gambles using dynamics" 04/2017 Graduate Program on Medical Physics Journal Club

Carl J. Vyborny Award for Outstanding Journal Club Presentation

[1]	"Digital holography for radiation dosimetry" Graduate Program on Medical Physics Journal Club	04/2016
Re	search History	
[5]	La Rivière Lab, University of Chicago Advisors: Dr. Patrick La Rivière & Dr. Rudolph Oldenbourg Topics: Polarized light microscopy, 3D reconstruction	05/2016-
[4]	Kao Lab, University of ChicagoAdvisor: Dr. Chien-Min KaoTopics: PET detectors, statistical signal processing	01/2016-04/2016
[3]	MRI Research Centre, University of British Columbia Advisors: Dr. Alex MacKay & Dr. Carl Michal Topics: NMR, MRI, inhomogeneous magnetization transfer	04/2014-09/2015
[2]	Haas Lab, University of British Columbia Advisor: Dr. Kelly Sakaki Topics: Single cell electroporation, two-photon microscopy	01/2014-04/2014
[1]	Centre For Operations Excellence, University of British Columbia Advisor: Dr. Steven Shechter Topics: Health care optimization, Monte Carlo simulation	04/2013-09/2015
En	ployment History	
[2]	Kardium Inc., Burnaby, BC Junior Engineer Topics: Cardiac ablation, tissue conductivity, image analysis	09/2013-12/2013
[1]	SRK Consulting Inc., Vancouver, BC Junior Engineer Topics: Waste water management, Monte Carlo simulation	01/2012-04/2012
Tea	aching	
[2]	Medical Imaging 1, University of Chicago Teaching Assistant Topics: X-ray imaging, MRI, image restoration Rating: 5.0/5.0 from 5 students	2017
[1]	Mathematics For Medical Physics, University of Chicago Teaching Assistant Topics: Linear systems theory, stochastic processes, image reconstruction Rating: 4.8/5.0 from 5 students	2016

Awards [8] University of Chicago Biological Sciences Division Graduate Fellowship \$30k 2016 [7]\$2k Eastern Irrigation District Graduate Scholarship 2014 [6] NSERC Undergraduate Research Award \$4k 2014 [5] NSERC Industrial Undergraduate Research Award \$4k 2013 \$2k [4]Interpipeline Discovery Scholarship 2011 [3] UBC President's Entrance Scholarship \$1.5k 2010 [2] Alexander Rutherford Scholarship \$2.5k2010 [1] Junior Citizen of the Year, City of Brooks 2010 Professional Membership [4]The Optical Society of America (OSA) 2017 -[3]The International Society for Optics and Photonics (SPIE) 2016 -[2] The American Association of Physicists in Medicine (AAPM) 2015 -[1] Engineers & Geoscientists of British Columbia (EGBC) 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 $12 \text{ races} \ge 26.2 \text{ miles}$

SCUBA diving 15 open water dives, ~600 minutes underwater

Apiculture