

Daniel Zhi Liang Kor

DPhil Student, University of Oxford

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EDUCATION	<p>Doctor of Philosophy Clinical Neurosciences University of Oxford</p> <p>Bachelor of Applied Science (With Distinction) Engineering Physics (Cumulative Average: 85%) University of British Columbia</p> <p>University Transfer Program Science (GPA: 4.18/4.30) Columbia College</p>	<p>Expected graduation in 2023</p> <p>Sept. 2014 – May 2018</p> <p>Jan. 2011– May 2012</p>
RESEARCH EXPERIENCE	<p>Undergraduate Researcher, UBC MRI Research Center <i>University of British Columbia</i> Supervised by Dr. Alexander Rauscher on microstructural imaging and biophysical modelling.</p> <ul style="list-style-type: none"> Quantitative modelling of brain's white matter for usage of myelin and ferritin as biomarkers in multiple sclerosis monitoring. <p>Undergraduate Researcher, Canadian Hydrogen Mapping Experiment (CHIME) <i>University of British Columbia</i> Supervised by Dr. Mark Halpern on signal processing in radio astronomy.</p> <ul style="list-style-type: none"> Modelling the contributions of temperature to phase deviations in signal from acquisition pipeline. 	<p>May 2017 – present</p> <p>May – Sept 2016</p>
JOURNAL PUBLICATIONS	<p>Kor D., C. Birkl, S. Ropele, J. Doucette, T. Xu, E. Hernandez-Torres, V. Wiggermann, S. Hametner, A. Rauscher. The role of iron and myelin in orientation dependent R2* of white matter. <i>NMR in Biomedicine</i>. 2019;32:e4092. https://doi.org/10.1002/nbm.4092</p>	
CONFERENCE PROCEEDINGS	<p>Kor D., J. Doucette, T. Xu, A. Rauscher. The role of ferritin and myelin in orientation dependent R2* measured from susceptibility-weighted MR signal in white matter. 26th ISMRM, 2018.</p>	
PATENTS	<p><i>Optical Depth Measurement Device and Method</i>. US Provisional Patent Application no.: 62/510,361. Low-cost device provides real-time depth measurements in orthopedic surgeries. (patent pending)</p>	
TEACHING	<p>Teaching Assistant, UBC Department of Mechanical Engineering <i>University of British Columbia</i> Applied Science 100/101 - Introduction to Engineering I and II</p>	<p>Sept. 2017 – May 2018</p>
NON-ACADEMIC EXPERIENCE	<p>Military Infantry Officer, Singapore Armed Forces Officer Cadet School <i>Singapore Armed Forces</i></p>	<p>June 2012 – June 2014</p>
PROJECTS	<p>Senior Design Project II: Model for Diffusion in Brain's White Matter <i>University of British Columbia</i></p>	<p>Sept. – Dec. 2017</p>

	Senior Design Project I: Optical Depth Measurement for Surgery	Sept. 2016 – Apr. 2017
	<i>University of British Columbia</i>	
	15th UBC Engineering Physics Autonomous Robots Annual Competition	May – Aug. 2015
	<i>University of British Columbia</i>	
ACADEMIC AWARDS	Clarendon Fund Scholarship	October 2019
	<i>University of Oxford</i>	
	Fully funded doctoral research with stipend.	
	ISMRM Trainee Stipend Award	Feb. 2018
	<i>International Society for Magnetic Resonance in Medicine</i>	
	Awarded for the 26th Annual Meeting of the International Society for Magnetic Resonance in Medicine (ISMRM).	
	NSERC Undergraduate Student Research Award	May 2016, 2017, 2018
	<i>Natural Sciences and Engineering Research Council of Canada</i>	
	Awarded by the Natural Sciences and Engineering Research Council of Canada (NSERC) on a competitive basis.	
	UBC Dean's Award for Design and Innovation	Apr. 2017
	<i>University of British Columbia</i>	
	Award for outstanding and innovative final year engineering projects. Awarded for "Optical Depth Measurement Device and Method".	
	Coordinated International Exchange Award	Apr. 2016
	<i>University of British Columbia</i>	
	Monetary award to fund international exchange at ETH Zurich.	
	UBC Chancellor's Scholar Award	Sept. 2014
	<i>University of British Columbia</i>	
	Award for outstanding entry grades for UBC.	
	John Helm Memorial Scholarship	Mar. 2012
	<i>Columbia College</i>	
	Yearly scholarship awarded to one outstanding student in the Physical Sciences.	
	Columbia College Academic Scholarship	Aug., Dec. 2011
	<i>Columbia College</i>	
	Semester scholarship awarded to four outstanding students. Recipient for two semesters in 2011.	
VOLUNTEER EXPERIENCE	Multiple Sclerosis Research Consenting	2017 – 2018
	<i>UBC Djavad Mowafaghian Centre For Brain Health</i>	
	Consented patients for enrollment into MS/MRI research.	
	Multiple Sclerosis Clinic Shadowing	2017 – 2018
	<i>UBC Djavad Mowafaghian Centre For Brain Health</i>	
	Shadowed resident neurologist, Dr. Robert Carruthers, in his clinic sessions.	
	Engineering Physics Mentor	2017 – 2018
	<i>University of British Columbia</i>	
	Mentored five junior Engineering Physics students.	
	Laboratory Assistant and Outreach Volunteer	2014 – 2018
	<i>UBC Engineering Physics Project Laboratory</i>	
	Engaged university first year and high school students for STEM outreach.	