

CURRICULUM VITAE

VANESSA WIGGERMANN, PHD.

PERSONAL DATA

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PLACE AND DATE OF BIRTH: Germany | 14 June 1988  
EMAIL: [vanessaw@drcmr.dk](mailto:vanessaw@drcmr.dk)  
ORCID: [0000-0001-5236-3039](https://orcid.org/0000-0001-5236-3039)  
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EDUCATION

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MAY 2020 | PhD in PHYSICS  
**University of British Columbia (UBC)**, Vancouver, BC, Canada  
Thesis: “*Gradient and spin echo magnetic resonance imaging for the characterization of myelin health in multiple sclerosis*”  
Supervisor: Dr. Alexander RAUSCHER

JULY 2013 | Diplom Degree (comparable to M.Sc.) in PHYSICS – final grade 1.5 (very good)  
**Otto-von-Guericke University (OvGU)**, Magdeburg, Germany  
Thesis: “*MR phase post-processing and MR susceptibility mapping - a comprehensive comparison*”  
Supervisors: Dr. Oliver SPECK, Dr. Alexander RAUSCHER

APRIL 2007 | Abitur (University Entrance Certificate) – final grade 1.4 (very good)  
**Norbertus Gymnasium**, Magdeburg, Germany

TEACHING & WORK EXPERIENCE

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05/2020-PRESENT | Post-doctoral Fellow DRCMR (DANISH RESEARCH CENTRE FOR MAGNETIC RESONANCE)

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01/2018-05/2018 | Teaching Assistant (UBC, PHYS 170)  
Guiding and grading of tutorials for engineering physics students

09/2017-09/2018 | TA Professional Development Program Head TA Coordinator  
Designing and leading the Teaching Assistant program within the department, application for funding for Teaching Assistant program, hiring, program evaluation, guidance for all Head Teaching Assistants

01/2016-05/2016 | Head Teaching Assistant (UBC, PHYS 101)  
Design of tutorial materials and grading schemes, instruction/preparation of Teaching Assistants to deliver content

08/2015-09/2015 | Visiting Graduate Student at the MEDICAL UNIVERSITY OF VIENNA, VIENNA, AUSTRIA working with Dr. Simon Hametner

07/2015-08/2015 | Visiting Graduate Student at the NATIONAL 7T FACILITY, LUNDS UNIVERSITET, LUND, SWEDEN working with Dr. Gunther Helms

01/2015-05/2015 | Teaching Assistant (UBC, PHYS 101)  
09/2013-05/2014 | Guiding and grading of introductory physics laboratories and tutorials

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04/2012-09/2013	Visiting Graduate Student at the UBC MRI RESEARCH CENTER, UNIVERSITY OF BRITISH COLUMBIA, VANCOUVER, BC, CANADA
07/2011-10/2011	Visiting Student in DAAD RISE worldwide program at UNIVERSITY OF BRITISH COLUMBIA, VANCOUVER, BC, CANADA

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## STUDENT SUPERVISION

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05/2019-07/2019	Shafkat Hussain, 4 <sup>th</sup> yr engineering physics undergraduate, UBC, summer student Primary training and student co-supervision
05/2018-07/2018	Craig Stewart, 1 <sup>st</sup> yr medicine graduate, Queen's University <b>Independent training and student supervision</b>
06/2017-08/2017	Michelle Kwok, 3 <sup>rd</sup> yr science undergraduate, UBC, student volunteers Primary training and student co-supervision
07/2016-10/2016	Alina Elter, 5 <sup>th</sup> yr physics undergraduate, visiting student DAAD worldwide <b>Independent training and student supervision</b>
07/2014-10/2014	Inga Ibs, 5 <sup>th</sup> yr cognitive neuroscience undergraduate, visiting student DAAD worldwide Primary training and student co-supervision
07/2014-10/2014	Samantha Tan, 5 <sup>th</sup> yr physics undergraduate, UBC USRA summer student Primary training and student co-supervision
07/2013-10/2014	Lisa Lee, 5 <sup>th</sup> yr science undergraduate, UBC directed studies student Primary training and student co-supervision

## REVIEW ACTIVITY, SPEAKING AND EVENT COORDINATION

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INDEPENDENT REVIEWING for: Neurology, NMR in Biomedicine, PLoS One  
 INVITED/SHARED REVIEWS for: PNAS, NMR in Biomedicine, NeuroImage

### Speaking, Event Coordination and Volunteering

10/2019	Speaker at UBC MS MRI UPDATE event ('Imaging of the CVS in MS')
09/2019	Invited Speaker at 5 <sup>th</sup> QSM workshop, Seoul, South Korea
04/2019	Speaker at BC MS NURSING workshop ('Introduction to MR image contrasts')
11/2017-05/2019	Co-organizer of EDI EVENTS AND WORKSHOPS
11/2017	Co-founder of departmental EQUITY AND INCLUSION group at PHAS
06/2017	Speaker at WOMEN AGAINST MS launch event
05/2017	Speaker at MS CITY-WIDE RESEARCH ROUNDS ('Myelin and iron in MS lesions')
03/2015	Organizer of PHAS GRADUATE STUDENT CAREER WORKSHOP
09/2014-08/2016	Organizer of departmental GRADUATE STUDENT SEMINAR SERIES
09/2014-09/2016	President of UBC PHAS GRADUATE STUDENT ASSOCIATION

09/2014-04/2015	Co-Organizer/Financial Administration of local FRONTIERS IN BIOPHYSICS Annual Conference
10/2011-10/2012	Faculty of Science, OvGU, Faculty Council Member
10/2010-10/2012	Faculty of Science, OvGU, Student Council Member
04/2008-09/2012	Co-Organizer/Leader of trilateral youth exchange program between Germany, Poland and Israel (NGO Face-to-Face)

## SCHOLARSHIPS, AWARDS, RECOGNITIONS

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07/2014 - 07/2018	<b>4 year MS Society of Canada Doctoral Studentship Award</b>
SEPT 2019	ECTRIMS Travel Grant
MAY 2019	<b>2<sup>nd</sup> place poster award</b> – White Matter Study Group Competition (ISMRM)
APRIL 2019	UBC MS Connect Educational Trainee Travel Award – To attend the ISMRM
DEC 2018	Vivien Srivastava Women in Science Research-Mentor Workshop grant – Equity workshop with Dr. Priya Natarajan
JUNE 2018	<b>3<sup>rd</sup> place poster award</b> – Electro-Magnetic Tissue Properties Study Group Competition (ISMRM)
FEB 2018	UBC MS Connect Educational Trainee Travel Award – To attend the ISMRM
NOV 2017	Vivien Srivastava Women in Science Research-Mentor Workshop grant – “The ethical gray zone” workshop with Dr. Caitlin Casey
NOV 2017	MRI Collaboration Conference Pilot Grant – “Susac Syndrome Advanced Characterization (SuSAC): A multidisciplinary assessment of the disease including advanced MRI, Optical Coherence Tomography, and Neuropsychological Testing”
JUNE 2017	<b>OHBM Merit Abstract Award</b>
MAY 2016	ISMRM Educational Stipend
OCT 2015	UBC MS Connect Educational Trainee Travel Award – To attend ECTRIMS
JULY 2015	Vancouver <b>CFRI Research and Methodology Training Grant</b> Recipient – Allowed travel to Vienna to work with Dr. Daniela Prayer on prenatal MRI
JUNE 2015	ISMRM Educational Stipend
APRIL 2015	University nomination for Vanier CGS CIHR competition – Approximately 24 nominations per year
SEPT 2014	Joint ACTRIMS/ECTRIMS Educational Grant
MAY 2014	ISMRM Educational Stipend
MAY 2014	<b>ISMRM Magna Cum Lauda Abstract Recognition</b> – “Iron accumulation is a rare feature in multiple sclerosis lesions”
MAY 2014	<b>ISMRM Magna Cum Lauda Abstract Recognition</b> – “Monitoring multiple sclerosis lesions over a period of five years using MR frequency shift imaging”
MAY 2014	<b>2<sup>nd</sup> place poster award</b> – Electro-Magnetic Tissue Properties Study Group Competition (ISMRM)
MAY 2014	Western Pacific Regional Research and Training Centre endMS travel award – To attend the ISMRM

JUNE 2013	ISMRM White Matter Study group workshop Trainee Travel Award
APRIL 2013	ISMRM New Entrant Travel Award
APRIL 2013	University nomination for Vanier CGS NSERC competition
	– Approximately 17 nominations per year
04/2012-04/2013	PROMOS scholarship OvGU
	– Supporting self-organized research stays abroad
07/2011-10/2011	RISE worldwide scholarship (DAAD)
	– Supporting summer research internships abroad

## RELEVANT SKILLS & LANGUAGES

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Pulse Programming:	Philips Data Handling and Pulse Programming Course 2014 and 2019
Statistical Analysis:	R (Mixed effect modelling)
Programming and Toolboxes:	MATLAB, FSL, NIFTYREG, FREESURFER, SPM, MIPAV
Introductory Experiences:	PYTHON, JUPYTER, GIT, PARAVIEW

### Languages

ENGLISH:	Fluent
GERMAN:	Mothertongue
SPANISH/FRENCH:	Basic Knowledge