

Chanelle Tham.

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Education.

MSc Cognitive Neuroscience (Research; September 2022 - August 2024)
Donders Institute and Radboud University

BA Honours Specialization in Psychology (September 2017 - April 2022)
University of Western Ontario

Scholarships/Awards.

- Entrance Scholarship (2017)
 - Presented to students with academic standing of 80% and higher.
 - Received 2,000 CAD.
- Dean's Honors List (2020, 2021, and 2022)
 - Presented annually to students with academic standing of 80% and higher.
- DAAD Research Internships in Science and Engineering (RISE) Scholarship (2021)
 - A summer internship offered to North American, British and Irish students with exceptional academic standings and research experience.
 - Received one of 300 scholarships, with 1,635 international applicants.
 - Granted a training internship with a stipend of 6,000 CAD

Research Experience.

DAAD RISE Student Research Assistant (September 2021 - December 2021)
RWTH Aachen Uniklinikum, Germany

- Received a partnership scholarship award with Mitacs for the Globalink Research Internship program (GRI) and German Academic Exchange Service (DAAD).
- Assisted in patient recruitment and data acquisition for behavioural cyberball and social exclusion studies using questionnaires, virtual environment paradigms and fMRI/EEG.

Student Research Assistant (September 2019 – April 2020)
Udunna Anazodo Laboratory, Lawson Health Research Institute

- Created protocol to analyze brain matter thickness.
- Evaluated patients with vascular cognitive impairment over the course of an exercise intervention designed to help prevent further brain decline.

Summer Research Assistant, Canada Summer Jobs (May 2019 - August 2019)
Udunna Anazodo Laboratory, Lawson Health Research Institute

- Used a novel toolbox CAT12 (<http://www.neuro.uni-jena.de/cat/>), through MATLAB and SPM to measure and analyze cortical thickness from MRI scans.
- Identified locations of cortical thinning in frontotemporal dementia patients and created a protocol to complete whole brain cortical and statistical analysis for other ongoing studies in the Lab.

Summer Research Assistant (July 2017 - December 2017)
Jean Theberge Laboratory, Lawson Health Research Institute

- Investigated the noise characteristics of an MRI head coil developed by the lab by comparing signal-to-noise ratio maps and tissue fraction histograms of this coil to a commercially available (Siemens PET/MRI hybrid) head coil.
- Generated figures using MATLAB scripts and the SPM interface.
- These graphical comparisons helped identify performance issues in the head coil to encourage further improvements.

Partners in Experiential Learning (PEL) Cooperative Program (October 2016- June 2017)
Research Health Institute

Lawson

- Aimed to investigate voxel based morphometric differences between major depressive disorder, schizophrenia, and healthy brains.
- Analyzed magnetic resonance imaging (MRI) brain scans of patient and control groups using SPM and MATLAB.
- https://www.schulich.uwo.ca/cartt/education/partners_in_experiential_learning/index.html

Publications

- *Poster presentation at the Dutch Neuroscience Meeting 24 (2024)*
 - ¹H spectroscopy in the SHANK3 mouse model for autism spectrum disorder
- *Research article in Magnetic Resonance in Medicine (2024)*
 - Reproducibility of arterial spin labeling cerebral blood flow image processing: A report of the ISMRM open science initiative for perfusion imaging (OSIPI) and the ASL MRI challenge
 - <https://doi.org/10.1002/mrm.30081>
- *Poster presentation at the ISMRM Benelux (2024).*
 - Tham et al. (2024). 1H spectroscopy in the SHANK3 mouse models for autism spectrum disorder
- *Project challenge presentation at ISMRM 31st Annual Meeting & Exhibition (2023).*
 - Tham et al. (2023). The ASL Challenge Reproduction Study: Replicating Findings from the OSIPI- ISMRM ASL MRI Challenge.
- *Poster presentation at the Euregio Brain Networking Conference (2021).*
 - Tham et al. (2021) Analysis of Cortical Thickness in Behavioural-Variant Frontotemporal Dementia using the CAT12 Toolbox in SPM12.
- *Poster presentation at the Schulich Medicine and Dentistry Clinical Neurological Science Research Day (2019).*
 - Tham et al. (2019) Measuring cortical thickness in behavioural-variant frontotemporal dementia using the CAT12 Toolbox in SPM.

Other relevant experience

Front Office Employee (September 2023 – August 2024)
Lifeport Welcome Center/Expat Desk Nijmegen

- Advise and direct international students/employees on information for the Nijmegen Municipality and the Immigratie- en Naturalisatiedienst (IND).

Clothing and Footwear Sales Associate (June 2020 – September 2023)
SportChek (FGL Sports)

- Applied knowledge of sports apparel and footwear to assist customers in shopping experience.

Volunteer Experience

Western International Peer Guides (September 2018 – July 2022)

International and Exchange Student Centre, Western University

- An eye-opening cross-cultural experience organized by International Centre to connected international students with local Western students and offer support/resources on Western campus and London.

Programming/Software Skills

- SPM, CAT12, CONN, MarsBaR, FSL, DCM2NII, SPANT, MRICro, spec2nii
- SPSS, R/R-Studio, MATLAB, Python, Java, HTML
- Git/Github
- Microsoft Products (PowerPoint, Excel, Word)
- Adobe Products (Lightroom, Photoshop, Premiere Pro)

References

Joanes Grandjean

Project Supervisor for Master's Internship (NL)

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Judith Homberg

Principal Investigator for Master's Internship (NL)

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Udunna Anazodo

Project supervisor and Principal Investigator for
Lawson Health Research (CAN)

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Felix Stohr

Project Supervisor for DAAD/Mitacs Research
Scholarship (GER)

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