

Da Zhi

Western Institute for Neuroscience, Department of Computer Science, University of Western Ontario

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PAST & CURRENT APPOINTMENT

Research Fellow , University of Western Ontario	2023 - present
Instructor , University of Western Ontario	2020 - 2021

EDUCATION

Ph.D. in Computer Science , University of Western Ontario Thesis Advisor: Dr. Jörn Diedrichsen	2018 - 2023
M.Sc. in Computer Science , University of Ottawa Thesis Advisor: Dr. Emil Petriu	2015 - 2018
B.Eng. in Computer Science and Technology , Tianjin University Thesis Advisor: Dr. Shiguang Liu	2011 - 2015

RESEARCH EXPERIENCE

Diedrichsenlab , <i>University of Western Ontario</i> <i>Research Assistant</i>	2018 - 2023 <i>London, Ontario</i>
Bio-Inspired Robotic Lab , <i>University of Ottawa</i> <i>Research Assistant</i>	2017 - 2018 <i>Ottawa, Ontario</i>
Sachs Neurosurgery Research Lab , <i>Ottawa Hospital Research Institute</i> <i>Research Assistant, Coop Student</i>	2016 <i>Ottawa, Ontario</i>

PUBLICATIONS

Nettekoven, C. R., **Zhi, D.**, Shahshahani, L., Pinho, A. L., Saadon-Grosmann, N., Diedrichsen, J. (2023). A hierarchical atlas of the human cerebellum for functional precision mapping. *bioRxiv*, 2023-09

Zhi, D., Shahshahani, L., Nettekoven, C., Pinho, A. L., Bzdok, D., Diedrichsen, J. (2023). A hierarchical Bayesian brain parcellation framework for fusion of functional imaging datasets. *bioRxiv*, 2023-05

Zhi, D., King, M., Hernandez-Castillo, C. R., Diedrichsen, J. (2022). Evaluating brain parcellations using the distance-controlled boundary coefficient. *Human Brain Mapping*, 43(12), 3706-3720.

Zhi, D., de Oliveira, T. E. A., da Fonseca, V. P., Petriu, E. M. (2018). Teaching a Robot Sign Language using Vision-Based Hand Gesture Recognition. In *2018 IEEE International Conference on Computational Intelligence and Virtual Environments for Measurement Systems and Applications (CIVEMSA)*, pp. 1-6. IEEE

da Fonseca, V. P., Kucherhan, D. J., de Oliveira, T. E. A., **Zhi, D.**, Petriu, E. M. (2017). Fuzzy controlled object manipulation using a three-fingered robotic hand. In *Systems Conference (SysCon), 2017 Annual IEEE International*, pp. 1-6. IEEE

AWARDS AND SCHOLARSHIPS

Western Graduate Research Scholarship (WGRS)	2018 - 2022
Value of 5000 CAD per year, University of Western Ontario	
10th Annual Engineering and Computer Science Graduate Poster Competition	2018
IEEE Award, University of Ottawa	
National College Student Extracurricular Academic and Technical Works Contest	2015
Provincial first prize	
National College Students' Innovation Training Program Scholarship	2015
Excellent Undergraduate Researcher Award	2014

TEACHING EXPERIENCE

University of Western Ontario

Data Structures and Algorithms - CS 2210B, <i>Instructor</i>	Winter 2020 / Summer 2021
Artificial Intelligence I - CS 3346A, <i>Teaching Assistant</i>	Fall 2019 / 2020
Artificial Intelligence II - CS 9542B/4442B, <i>Teaching Assistant</i>	Winter 2019 / 2020 / 2021
Data analysis and visualization - CS 2035B, <i>Teaching Assistant</i>	Winter 2021 / 2022 / 2023
Foundations of Computer Science - CS 3331A, <i>Teaching Assistant</i>	Fall 2018

University of Ottawa

Computer Graphics - CSI4130A, <i>Teaching Assistant / Demonstrator / Lab Monitor</i>	Winter 2018
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WORK EXPERIENCE

Coop Validation Engineer , Microsemi, <i>Kanata, Ontario</i>	Sep 2016 - Dec 2016
Coop Student , Ottawa Hospital Research Institute, <i>Ottawa, Ontario</i>	May 2016 - Aug 2016

CONTRIBUTED PRESENTATIONS

Organization for Human Brain Mapping (OHBM)	July 2023
Selected Oral presentation, Poster presentation	<i>Montreal, Canada</i>
University of Western Ontario Research in Computer Science (UWORCS)	May 2022
Poster presentation	<i>London, Canada</i>
Organization for Human Brain Mapping (OHBM)	June 2020
Poster presentation	<i>Montreal, Canada (Virtual)</i>
Society for Neuroscience (SfN)	October 2019
Poster presentation	<i>Chicago, USA</i>
Engineering and Computer Science Graduate Poster Competition	March 2018
Poster presentation	<i>Ottawa, Canada</i>

TECHNICAL SKILLS

Neuroimaging, Connectome Workbench / NiBabel / Nilearn / SPM 12

Programming Language, C++ / Python / MATLAB / JavaScript

Graphics and Image processing, OpenGL / OpenCV / Qt

Machine Learning and Statistics, PyTorch / scikit-learn / Numpy

REFEREES

Available upon request