

# Da Zhi

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EDUCATION	<b>University of Western Ontario</b> , London, Ontario, Canada	Sep 2018 –
	▪ <b>Ph.D.</b> in Computer Science, Thesis Advisor: Dr. Jörn Diedrichsen • Focus: Machine Learning, Computational Neuroscience, Neuroimaging.	
	<b>University of Ottawa</b> , Ottawa, Ontario, Canada	Sep 2015 – Jun 2018
	▪ <b>M.Sc.</b> in Computer Science, Thesis Advisor: Dr. Emil M. Petriu • Thesis title: Depth Camera-Based Hand Gesture Recognition for Training a Robot to Perform Sign Language • Focus: Gesture Recognition, Robotic Sensor, Classification Algorithm.	
	<b>Tianjin University</b> , Nankai, Tianjin, China	Sep 2011 – Jul 2015
	▪ <b>B.Eng.</b> in Computer Science, Thesis Advisor: Dr. Shiguang Liu • Thesis title: Research on Video Dehazing • Focus: Image Processing, Video Processing, Dehazing Algorithm	
RESEARCH EXPERIENCE	<b>Diedrichsenlab</b> , University of Western Ontario	Sep 2018 –
	▪ Research Assistant ▪ Supervisor: Dr. Jörn Diedrichsen	
	<b>Bio-Inspired Robotic Lab</b> , University of Ottawa	Jan 2017 – Jun 2018
	▪ Research Assistant ▪ Supervisor: Dr. Emil Petriu	
	<b>Sachs Neurosurgery Research Lab</b> , Ottawa Hospital Research Institute	May 2016 – Aug 2016
	▪ Research Assistant ▪ Supervisor: Dr. Adam Sachs, Dr. Chadwick Boulay	
	<b>Computer Graphics and Animation Group (CGAG)</b> , Tianjin University	Sep 2013 – Jul 2015
	▪ Research Assistant ▪ Supervisor: Dr. Shiguang Liu	
PUBLICATIONS	▪ <b>Zhi, D.</b> , King, M., Hernandez-Castillo, C., Diedrichsen, J. (2022). “Evaluating brain parcellations using the distance-controlled boundary coefficient” <i>Human Brain Mapping</i> , 43(12), 3706-3720	
	▪ <b>Zhi, D.</b> (2018). “Depth Camera-Based Hand Gesture Recognition for Training a Robot to Perform Sign Language.” <i>Master dissertation</i> , Université d’Ottawa/University of Ottawa.	
	▪ <b>Zhi, D.</b> , de Oliveira, T. E. A., da Fonseca, V. P., Petriu, E. M. (2018, June). “Teaching a Robot Sign Language using Vision-Based Hand Gesture Recognition.” In <i>2018 IEEE International Conference on Computational Intelligence and Virtual Environments for Measurement Systems and Applications (CIVEMSA)</i> , pp. 1-6. IEEE	
	▪ da Fonseca, V. P., Kucherhan, D. J., de Oliveira, T. E. A., <b>Zhi, D.</b> , Petriu, E. M. (2017). “Fuzzy controlled object manipulation using a three-fingered robotic hand,” In <i>Systems Conference (SysCon), 2017 Annual IEEE International</i> , pp. 1-6. IEEE	
AWARDS & SCHOLARSHIPS	<b>Western Graduate Research Scholarship (WGRS)</b>	Sep 2018 – May 2022
	▪ Value of 5000 CAD / year, University of Western Ontario	
	<b>10th Annual Engineering and Computer Science Graduate Poster Competition</b>	Mar 2018
	▪ IEEE Award, University of Ottawa	
	<b>National College Student Extracurricular Academic and Technical Works Contest</b>	Jun 2015
▪ Provincial first prize		
<b>National College Students’ Innovation Training Program Scholarship</b>	Feb 2015	
<b>Excellent Undergraduate Researcher Award</b> , Tianjin University	Mar 2014	

<b>TEACHING EXPERIENCE</b>	<p><b>University of Western Ontario</b></p> <ul style="list-style-type: none"> <li>▪ Data Structures and Algorithms - CS 2210B, Instructor Winter 2020 / Summer 2021</li> <li>▪ Artificial Intelligence I - CS 3346A, Teaching Assistant Fall 2019 / 2020</li> <li>▪ Artificial Intelligence II - CS 9542B/4442B, Teaching Assistant Winter 2019 / 2020 / 2021</li> <li>▪ Data analysis and visualization - CS 2035B, Teaching Assistant Winter 2021 / 2022</li> <li>▪ Foundations of Computer Science - CS 3331A, Teaching Assistant Fall 2018</li> </ul> <p><b>University of Ottawa</b></p> <ul style="list-style-type: none"> <li>▪ Computer Graphics - CSI4130A, Teaching Assistant / Demonstrator / Lab Monitor Winter 2018</li> </ul>
<b>WORK EXPERIENCE</b>	<p><b>Microsemi</b>, Kanata, Ontario, Canada Sep 2016 – Dec 2016</p> <ul style="list-style-type: none"> <li>▪ Validation Engineer, Research &amp; Development Division</li> </ul> <p><b>Ottawa Hospital Research Institute</b>, Ottawa, Ontario, Canada May 2016 – Aug 2016</p> <ul style="list-style-type: none"> <li>▪ Research Assistant, Ottawa Hospital Research Institute</li> </ul>
<b>CONTRIBUTED WORKSHOP PRESENTATIONS</b>	<p><b>University of Western Ontario Research in Computer Science (UWORCS)</b> May 2022</p> <ul style="list-style-type: none"> <li>▪ Poster presentation London, ON, Canada</li> </ul> <p><b>Organization for Human Brain Mapping (OHBM)</b> Jun 2020</p> <ul style="list-style-type: none"> <li>▪ Poster presentation, Montreal, QC, Canada</li> </ul> <p><b>Society for Neuroscience (SfN)</b> Oct 2019</p> <ul style="list-style-type: none"> <li>▪ Poster presentation, Chicago, IL, USA</li> </ul>
<b>PROFESSIONAL AFFILIATIONS</b>	<p><b>Organization for Human Brain Mapping (OHBM)</b>, Student Membership 2020</p> <p><b>Society for Neuroscience (SfN)</b>, Graduate Student Membership 2019 –</p> <p><b>The Institute of Electrical and Electronics Engineers (IEEE)</b>, Student Membership 2016 –</p> <p><b>IEEE Young Professionals Group</b>, Membership 2016 – 2018</p>
<b>TECHNICAL SKILLS</b>	<p><b>Programming Language</b></p> <ul style="list-style-type: none"> <li>▪ Proficient in C++, Python and MATLAB</li> <li>▪ Experienced in Java, C, tcl/tk and JavaScript</li> </ul> <p><b>Graphics and Image / Video processing</b>, OpenGL / OpenCV / Qt</p> <p><b>Machine Learning / Deep Learning / Statistics</b>, PyTorch / Keras / scikit-learn / Numpy / SPM 12</p> <p><b>Neuroimaging</b>, Connectome Workbench / nibabel / nilearn</p>
<b>CAMPUS ACTIVITIES</b>	<p><b>Organizer, Senate of Canada - SenCA PLUS+</b>, second visit, University of Ottawa Oct 2017</p> <p><b>Organizer, Senate of Canada - SenCA PLUS+</b>, first visit, University of Ottawa May 2017</p> <p><b>Volunteer, The IEEE uOttawa Student Branch</b>, University of Ottawa Sep 2015 – Apr 2016</p> <p><b>Volunteer, 2015 Canada Army Run</b>, City of Ottawa Sep 2015</p> <p><b>Captain, The Soccer Team of Tianjin University</b>, Tianjin University Sep 2013 – Jun 2014</p>
<b>REFERENCES</b>	Available upon request