

# Henry Burgess

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Education	<p><b>Bachelor of Engineering (Software) (Honours Class I)</b> <b>The University of Queensland (Brisbane, Australia)</b> <i>January 2017 – June 2021</i> <b>Thesis title:</b> “Implementation of Online Neuropsychological Tasks using JavaScript” <b>Thesis supervision:</b> Prof. Linda Richards AO, Dr. Ryan Dean, Mr. Richard Thomas <b>GPA (4-point scale):</b> 3.66</p>
Research Experience	<p><b>Washington University in St. Louis (Software Engineer II)</b> <i>September 2021 - Present</i> Member of the <i>Brain Development and Disorders Laboratory</i> and continuing to enable scientific investigation by developing novel techniques for implementing complex and reliable cognitive tasks online. Primary research interests include the integration of modern web tools with online cognitive tasks and the optimization of software development processes to enable reproducible and reliable data collection.</p> <p><b>Queensland Brain Institute (Research Assistant)</b> <i>January 2021 - September 2021</i> Member of the <i>Brain Development and Disorders Laboratory</i>, implemented three multi-platform cognitive tasks using JavaScript and modern software development tools. Assisted with task administration and liaised with participants attending the Australian Disorders of the Corpus Callosum (AusDoCC) 2021 conference.</p> <p><b>CSIRO (Research Assistant)</b> <i>June 2019 – July 2019</i> Developed a prototype geospatial web application using JavaScript. Required to understand the agricultural context and UX requirements of the end-users from subject-matter experts.</p>
Teaching Experience	<p><b>The University of Queensland (Casual Academic)</b> <i>Semester 1, 2022</i> <b>CSSE3012 (The Software Process)</b> Introduced students to the software development life-cycle.</p> <p><i>Semester 2, 2020</i> <b>COMP4500 (Advanced Algorithms and Data Structures)</b> Assisted in marking final exams covering advanced computer science concepts such as runtime complexity, computational complexity, and dynamic programming.</p> <p><i>Semester 2, 2019 - Semester 2, 2021</i> <b>DECO2800 (Design Computing Studio 2)</b> Organized and supervised multiple teams of 6 students working on a large-scale collaborative Java software project using version control systems.</p> <p><i>Semester 1, 2019 - Semester 1, 2021</i> <b>CSSE1001 (Introduction to Software Engineering)</b> Introduced students to Python and Object-Oriented Programming concepts.</p>

Memberships	<p><b>International Research Consortium for the Corpus Callosum and Cerebral Connectivity (IRC<sup>5</sup>)</b>  <i>Associate member, Neuropsychology (2021 - Present)</i></p> <p><b>The United States Research Software Engineer Association</b>  <i>Member (2022 - Present)</i></p> <p><b>Engineers Australia</b>  <i>Graduate member (2021 - Present)</i></p>
Honors and Awards	<p><b>UQ Future Leader (Class of 2021)</b>  Nominated and awarded as a ‘Class of 2021’ Future Leader, recognising students who have gone beyond their typical program of studies to make a positive impact on campus, their community and even the world.</p> <p><b>Hawken Scholar (2020)</b>  Recognizes academic performance in the top 5% of all undergraduate Engineering students at the University of Queensland in 2020.</p> <p><b>Dean’s Commendation for Academic Excellence (2019, 2021)</b>  Academic achievement recognised for Semester 1 and 2, 2019, and Semester 1, 2021. Qualification for each award required a semester GPA greater than 6.6 on a 7-point scale.</p>
Industry Experience	<p><b>Deswik Mining Consultants – Software Intern (Brisbane, Australia)</b>  <i>January 2020 – February 2020</i>  Worked in the <i>Deswik.Sched</i> product development team delivering bug fixes, UI enhancements, and maintenance. Gained experience with Visual Studio 2019 and the C# programming language. Worked in an Agile environment, participated in daily stand-up meetings and sprint retrospectives, and used Atlassian’s Confluence and Jira to manage workflow.</p> <p><b>Dalian Neusoft University of Information (Dalian, Liaoning province, China)</b>  <i>June 2018 – July 2018</i>  Received a grant and traveled to Dalian, China to participate in an innovation and entrepreneurship program facilitated under the Australian Government’s New Colombo Plan.</p>
Service and Outreach	<p><b>CARE STL</b>  Currently volunteering time on weekends at CARE STL, ensuring shelter cats have sufficient food, water, and mental stimulation while awaiting adoption.</p> <p><b>180 Degrees Consulting (The University of Queensland branch)</b>  Worked on a project for a non-profit clothing brand benefiting Indigenous Australians. Primary responsibilities included developing a PR strategy during the COVID-19 pandemic and optimizing operational strategies. Required to meet weekly with consulting team to discuss progress and present deliverables to the client.</p>

<p><b>Publications</b></p>	<p><b>General Audience</b></p> <p><i>2022</i> <i>Australian Disorders of the Corpus Callosum (AusDoCC) Newsletter</i> Wrote an article “Online Research and Web Accessibility” submitted and published to the “From our researchers...” column of the May 2022 AusDoCC newsletter.</p> <p><i>2021</i> <i>NeuroDesk running on Azure</i> Published a tutorial describing how researchers could utilize free computational resources offered by Microsoft Azure to run an instance of the containerized <i>NeuroDesk</i> image processing operating system. (<a href="https://clumsycode.medium.com/neurodesk-running-on-azure">https://clumsycode.medium.com/neurodesk-running-on-azure</a>)</p> <p><b>Peer-reviewed and Preprint</b></p> <p>Richards, L. J., Barnby, J., Dean, R., <b>Burgess, H.</b>, Kim, J., Teunisse, A., ... &amp; Dayan, P. (2021). Increased persuadability and credulity in people with corpus callosum dysgenesis. <i>medRxiv</i>. <a href="https://doi.org/10.1101/2021.12.28.21268413">https://doi.org/10.1101/2021.12.28.21268413</a></p>
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<p><b>References</b></p>	<p><b>Linda J. Richards AO, FAA, FAHMS, PhD</b>  <i>Chair, Department of Neuroscience and Edison Professor of Neuroscience</i>  Washington University in St. Louis  <b>Email:</b> linda.richards@wustl.edu</p> <p><b>Ryan Dean, PhD</b>  <i>Staff Scientist</i>  Washington University in St. Louis  <b>Email:</b> ryan.dean@wustl.edu</p> <p><b>Joe Barnby, PhD</b>  <i>Assistant Professor / Lecturer</i>  Royal Holloway, University of London  <b>Email:</b> Joseph.Barnby@rhul.ac.uk</p>
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