

Ashley Dennis-Henderson

Webpage:

www.ashleydennishenderson.com

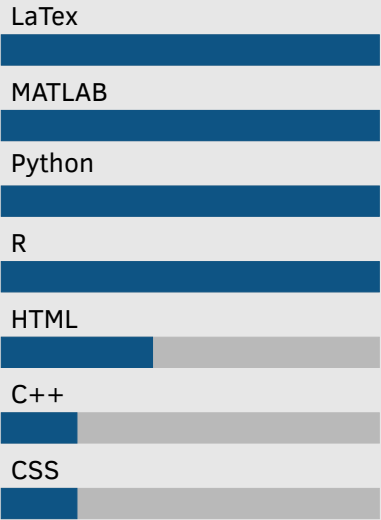
Email:

ashley.dennis-henderson@adelaide.edu.au

Research Interests

- Natural Language Processing
- Optimisation
- Network Analysis
- Digital Humanities
- Historical Textual Analysis

Programming Languages



Education

Feb 2021 - Current	Doctor of Philosophy <i>Disciplines of Applied Mathematics and Statistics</i> Expected Completion: Dec 2026	The University of Adelaide
Jul 2018 - Dec 2020	Master of Philosophy <i>Discipline of Applied Mathematics</i>	The University of Adelaide
Mar 2015 - Jul 2018	Bachelor of Mathematical Sciences (Advanced) <i>Double Major in Applied Mathematics</i> GPA: 6.542/7	The University of Adelaide
Jul 2020 - Dec 2023	Diploma in Arts <i>Discipline of History</i> GPA: 6.75/7	The University of Adelaide
Jan 2017 - Jun 2017	Exchange Semester	Lund University (Sweden)

Experience

Dec 2024 - Current	Lecturer in the School of Mathematical Sciences Adelaide University (previously The University of Adelaide)	- Developer for Fact or Fiction: Data for Everyone (2026 Semester 1). - Joint Coordinator for Engineering Data Analytics (2026 Semester 1). - Joint Coordinator for Data Skills for Scientists (2026 Semester 1). - Coordinator for Critical Evaluation in Data Science (2026 Semester 1). - Developer for Calculus for Statisticians (2025 Semester 2). - Developer for Engineering Data Analytics (2025 Semester 2). - Developer for Critical Evaluation in Data Science (2025). - Project Supervisor for Master of Data Science Research Project Part B (2025 Trimester 2 & 3). - Project Supervisor for Master of Data Science Research Project Part A (2025 Trimester 1 & 2). - Coordinator for Critical Evaluation in Data Science (2025 Semester 1). - Coordinator for Optimisation III (2025 Semester 1).
Feb 2019 - Dec 2024	Casual Employment in the School of Mathematical Sciences The University of Adelaide	- Coordinator for Research Methods and Statistics (2024 Semester 2). - Coordinator for Critical Evaluation in Data Science (2024 Semester 1). - Tutor and marker for Data Science III (2023 Semester 2). - Coordinator for Research Methods and Statistics (2022 Semester 2). - Creating course content for undergraduate courses: Critical Evaluation in Data Science Short Courses and Optimisation and Operations Research. (2021 - 2023). - Tutor and marker for Mathematics IA (2019 Semester 2 - 2021 Semester 2). - Exam marker for Mathematics IA (2021 Semester 1 - 2021 Semester 2). - Exam marker for Research Methods & Statistics (2021 Semester 2 & 2023 Semester 2) - Tutor and marker for Mathematical Foundations of Data Science (2021 Semester 1). - Tutor and marker for Mathematics IB (2020 Summer School). - Marking for Statistical Practise I (2019 Semester 2). - Marker for Mathematics for Data Science I (2019 Semester 2). - Tutor in the maths First Year Help Room (2019 Semester 1). - Marker for Differential Equations II (2019 Semester 1).

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Society Memberships

ACEMS

Jul 2018 - Dec 2021

Australian Mathematical Society

Nov 2019 - Current

ANZIAM

Jan 2020 - Current

MoCaO

Jan 2020 - Current

WIMSIG

Jan 2020 - Current

Statistical Society of Australia

Jun 2021 - Current

APSIG

Nov 2021 - Current

Australasian Association for Digital Humanities

Nov 2021 - Current

Australian Historical Association

March 2024 - Current

Committees

Women in STEM Society

The University of Adelaide
IT Officer on the 2018
Committee

United T.C. Gawler Tennis Club

Secretary on the 2018
Committee

Young Scientists of Australia - Adelaide Chapter

Member without Portfolio on
the 2018 Committee
Secretary on the 2019
Committee

Experience (Continued)

Feb 2022 - Casual Employment in the School of Education

Jun 2023 The University of Adelaide

- Lecturer for Reasoning with Numbers: Statistical Literacy (2022 Semesters 1 & 2, 2023 Semester 1).

2020 - Casual Employment as a Research Assistant in the College of Humanities, Arts and Social Sciences

2021 Flinders University

Performing data analysis on a selection of submissions to an Australian senate enquiry.

Dec 2017 - Summer Vacation Scholarship

Feb 2018 The University of Adelaide

Researched methods to analyse text and wrote code in Python to find word frequencies within a text.

Nov 2016 - Summer Vacation Scholarship

Dec 2016 The University of Adelaide

Researched multidimensional Brownian motions and compared different algorithms to simulate them using MATLAB.

Publications

Dennis-Henderson, Ashley, Matthew Roughan, and Jonathan Tuke. "Temporal Network Analysis as a Method to Explore Australian World War I Diaries." *Journal of Historical Network Research* 12 (1), 104-132. 2025. <https://doi.org/10.25517/jhnr.v12i1.106>.

Dennis-Henderson, Ashley, Matthew Roughan, Lewis Mitchell, and Jonathan Tuke. "Life Still Goes on: Analysing Australian WW1 Diaries through Distant Reading." In *Proceedings of the 4th Joint SIGHUM Workshop on Computational Linguistics for Cultural Heritage, Social Sciences, Humanities and Literature*, 90-104. Online: International Committee on Computational Linguistics, 2020.

Dennis-Henderson, Ashley Grace. "Analysis of World War One Diaries using Natural Language Processing." M.Phil Dissertation. 2020.

Conference Presentations

5 Dec 2025 DHA 2025 Conference

Short Talk

Mapping the Journeys of Australian World War I Soldiers using Named Entity Recognition

4 Dec 2025 DHA 2025 Conference

Long Talk

Voices from the Past: A Digital Exploration of Australian World War I Diaries

9 Aug 2024 DH 2024 Conference

Poster

Mapping the Journeys of Australian World War I Soldiers using Named Entity Recognition

7 Aug 2024 DH 2024 Conference

Poster

A statistical analysis of the effects of censorship on the letters of Australian soldiers in World War I

5 Aug 2024 DH Inside Out Mini-Conference

Talk

Using Regular Expressions and Optimisation to Create a Method for Automatically Extracting Dates from War Diaries

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Interests

Netball (2007 - Current)
Tennis (2014 - Current)
Archery (2022 - 2023)
Travelling
Cake Decorating

Conference Presentations (Continued)

3 Jul 2024	Australian Historical Association Conference <i>Talk</i> Using Digital Techniques to Provide Collective Insights into the Experiences of Australian World War I Soldiers
19 Jul 2023	GraphNR 2023 Conference <i>Paper</i> Temporal Network Analysis as a Method to Explore World War I Diaries
9 Feb 2022	ANZIAM 2022 Conference <i>Contributed Talk</i> Optimisation as a tool for natural language processing
6 Jul 2021	ANZSC 2021 Conference <i>Talk</i> Extraction of Dates from Historical Diaries using Optimisation Techniques
12 Dec 2020	The 4th Joint SIGHUM Workshop on Computational Linguistics for Cultural Heritage, Social Sciences, Humanities and Literature <i>Paper</i> Life still goes on: Analysing Australian WW1 Diaries through Distant Reading
19 Oct 2020	eResearch Australasia Online <i>Panel</i> The social practice of online research networking
6 Mar 2020	Making Meaning: Collections as Data Symposium <i>Lightning Talk</i> Not all Data is Created Equal

Invited Talks

12 Aug 2021	University of Adelaide Digital Humanities Lab DH Lab: Text analysis and the humanities
3 Feb 2021	State Library of South Australia Internal Talk Analysing Australian WW1 Diaries using Distant Reading
27 Feb 2019	State Library of South Australia Internal Talk An Insight into Computational Techniques to Analyse Historical War Diaries

Professional Development

Jan 2021 - July 2025	Adelaide Graduate Award This program helps students at the University of Adelaide improve their employability skills.	The University of Adelaide
Jul 2018 - Jan 2023	Career and Research Skills Training (CaRST) Program M.Phil students are required to complete 60 hours in the CaRST program and PhD students are required to complete 120 hours.	The University of Adelaide
Mar 2018 - Oct 2018	Women in Stem Careers (WiSC) Program The WiSC program is a series personal development sessions around emotional intelligence, strengths, resilience and self-awareness and workshops on developing an online brand, writing applications, learning how to interview, and learning from industry via networking.	The University of Adelaide

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Honours/Awards

2023	Hugh Martin Weir Prize Each year this prize is awarded to a student using the Adelaide University Library's collection to research any aspect of Australia's involvement in war.	The University of Adelaide
2021, 2019, 2018	Executive Dean's Award for Outstanding Completion of the ECMS Volunteer and Ambassador Program This award is for students who complete more than 30 hours of volunteering for the ECMS Volunteer and Ambassador program within a 2 year period.	The University of Adelaide
2019	Ingenuity - School of Mathematical Sciences People's Choice Award Winner	The University of Adelaide
2019	The Stoneham Prize This prize is for the best poster produced by an HDR student in the School of Mathematical Sciences.	The University of Adelaide
2016	The E.O. Tuck Prize This prize is given each year to the student who receives the highest marks in Level II Applied Mathematics courses.	The University of Adelaide
2015 - Current	Member of the Golden Key International Honour Society Golden Key is the world's largest collegiate honour society. Membership is by invitation only for students in the top 15% of their studies.	

Scholarships/Travel Grants/Bursaries

Jul 2025	Early Career Bursary This bursary is to aid early career researchers presenting at the DHA 2025 Conference with attendance costs. The value of the bursary received was \$500.	Australasian Association for Digital Humanities (aaDH)
May 2024	Travel Grant This travel grant from the Adelaide Graduate Research School is to assist current HDR students in research travel. The value of the grant received was \$2,500.	The University of Adelaide
Apr 2024	Digital History Bursary This bursary is to aid research students and early-career research scholars presenting in the Digital History stream of the AHA 2024 Conference with attendance costs. The value of the bursary received was \$430.	Australian Research Data Commons
Feb 2021 - Dec 2024	Research Training Program Stipend	The University of Adelaide
2021	2021 Freemasons Legacy Scholarship This is a one-off scholarship which is awarded annually by the Freemasons Foundation Inc. to assist a deserving Legacy Ward to further their education and assist in their future life ambitions.	Freemasons Foundation
Jul 2018 - Jun 2020	Master of Philosophy (No Honours) Scholarship	The University of Adelaide

Reviews

2022 - 2024, 2026	Annual Conference of the Alliance of Digital Humanities Organizations Reviewed 2 abstracts for DH 2022, 5 abstracts for DH 2023, 6 abstracts for DH 2024, and 7 abstracts for DH 2026.	
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Volunteer Work

- Nov 2023 - **Legatee** Legacy South Australia and Broken Hill
Current Legatees are volunteers who work directly with Legacy families to provide support, friendship, and care.
- Jan 2022 - **Tennis Coach**
Dec 2025 I have volunteered as a coaching assistant at both Playford Tennis Centre and Henley South Tennis Club before completing my coaching qualification in Nov 2023. I then coached as an independent and for Trinity College.
- Sep 2021 - **Youth Ambassador** Legacy South Australia and Broken Hill
Jan 2024 As a Youth Ambassador I provide peer mentoring and support as well as promoting Legacy's younger voice within both the Veteran and Non-Veteran Community. I engage with a wide-ranging audience and activities which include assisting at Legacy Youth and Family events, commemorations services such as ANZAC Day, media commitments, and corporate presentations.
- Oct 2019 - **Netball Coach** Harlequin Netball Club
Apr 2021
- Mar 2018 - **ECMS Volunteer and Ambassador Program** The University of Adelaide
2021 This involves volunteering at events run by the Faculty of Engineering, Computer and Mathematical Sciences (ECMS), where I guide students to activities, engage with attendees about my university experiences and assist students with activities, as well as help with registration, set up and pack down of events.
- Aug 2013 - **The Young Scientists of Australia - Adelaide Chapter**
Dec 2019 This involved volunteering at events such as Science Alive and The Science Experience where I performed science demonstrations, assisted in conducting the program, and provided mentoring to younger students.