

RENÉE LU

Bachelor of Electrical Engineering/ Economics @ University of New South Wales

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CAREER PROFILE

Electrical Engineering & Economics undergraduate with an interest in harnessing technology to empower our world. I am driven by curiosity and a desire to learn and be challenged.

EDUCATION

University of New South Wales (UNSW)

B. Electrical Engineering (Honours)/ Commerce (Economics)

Feb 2017 - May 2022 | WAM: 86.262

- Taste of Research Scholarship (2019)
- Vida Balshaw Women in Engineering Scholarship (2017-2020)
- Women in Engineering Head-Start Award (2017)

St. George Girls High School (SGGHS)

2011 - 2016 | ATAR: 98.95

Peer Support Leader (2015), da Vinci Decathlon (2012-2015), Enviro Club (2014-2016)

SKILLS

Softwares: KiCad, PSpice, MuleSoft, Codeception, Katalon Studio, Excel, Stata

Programming: C, C++, SQL, Bash, Python, Matlab, Git

EXTRACURRICULARS

UNSW Business School | *PASS Leader (Economics)*

Feb 2020 - May 2022

- Delivered weekly face-to-face and online study sessions for undergraduate Economics courses for classes of 5 to 15 students, fostering a sense of community and confidence.

UNSW Faculty of Engineering | *Student Ambassador*

Nov 2018 - Present

- Representing the UNSW Engineering Faculty through delivering high school outreach activities, assisting Faculty Welcomes and degree information evenings.

UNSW Women in Technology Society | *Events Executive*

Nov 2018 - Nov 2019

- Conceptualised and delivered 20 events in the first year of the trimester system.
- Trained and mentored 5 subcommittee members, with 1 continuing to become the 2020 Events Executive and 2021 Co-President.

RELEVANT EXPERIENCE

Signal Information and Machine Intelligence Lab, UNSW | *Research Assistant*

Jul 2021 - Nov 2021

- Developing suitable signal processing and machine learning algorithms for distributed anomaly detection in satellite communications networks using Matlab.
- Conducting literature reviews and communications with collaborators at Defence Science and Technology Group.

ResMed | *Sleep Devices - Student Electrical Engineer*

Dec 2020 - Jun 2020

- Witnessed, documented and performed system level and EMC testing on power supply units (PSUs).
- Wrote 5 new product documentation and 1 new testing protocol for the PSUs, and led technical reviews for these documents.
- Liaised with 2 external suppliers to assist with project management.

Deloitte | *Platform Engineering - Summer Vacationer*

Nov 2020 - Dec 2020

- Created a MuleSoft plugin to integrate existing APIs with Splunk for the purpose of visualising API log files.
- Learnt about microservices and used common languages and technologies such as RAML, JBoss and SQL Server.

UNSW School of Electrical Engineering & Telecommunications | *Research Scholar*

Dec 2019 - Apr 2020

- Trained deep neural networks for children's speech recognition using kaldi, placing 2nd in INTERSPEECH 2020 Special Session.
- Performed data preparation for 400+ hours of children's speech data using Bash and Python scripts.

Red Marker - AI Powered Compliance | *Project Analyst*

Dec 2018 - Mar 2020

- Performed data analysis using SQL and Python to inform and support the prioritisation of product design.
- Automated UI web testing using Katalon Studio, reducing testing time from a manual 3 hours to 37 minutes.
- Assisted in creating a mock finance and banking website using HTML, now shown in client demonstrations.
- Designed new (now implemented) product UI mock-ups by collaborating with technical and non-technical co-workers.

COMPETITIONS

Grand Finalist People's Choice Winner	2020
<i>Concrete Playground & UNSW Advertising and Public Relations Society: Case Competition</i>	
2nd Place	2020
<i>Aurecon & UNSW Women in Engineering: Design Challenge</i>	
2nd Place	2020
<i>INTERSPEECH 2020 Special Session: Shared Task on Automatic Speech Recognition for Non-Native Children's Speech (Open Track)</i>	
Winner	2019
<i>UNSW Electrical Engineering and Telecommunications Society & Schneider Electric: Hardware Hackathon</i>	
Winner	2019
<i>UNSW Microfinance Consulting Group: Business Case Competition</i>	

PUBLICATIONS

"UNSW System Description for the Shared Task on Automatic Speech Recognition for Non-Native Children's Speech"
(with Mostafa Shahin, Prof. Julien Epps and Dr. Beena Ahmed)
INTERSPEECH 2020 (2020)

ADDITIONAL EXPERIENCES

2021	UNSW Engineering Society Peer Mentor
2019	Art of Smart Academic Tutor and Mentor
2018	UNSW Med Revue Socials Team
2018	UNSW Global Student Life Administration Officer
2018	UNSW Mathematics Society Marketing Subcom
2018	UNSW Save the Children Events Subcom
2018	UNSW Women in Technology Events Subcom
2018	UNSW Women in Engineering Society Industry Mentor Program (Mentee)
2018	UNSW "Student Welcome Initiative" Summer Internship
2018	Code Camp Co-Head Teacher & Teaching Assistant
2018	FarmConnect Engineer
2017	UNSW Engineering Society Careers Subcom
2017	UNSW Women in Engineering Scholarships Day Buddy & Mentor (Volunteer)
2017	UNSW Engineering Society Volunteer Development Program (VDP)
2017	UNSW ARC MOSAIC Mentor (Volunteer)
2017	Subway Sandwich Artist

References available upon request