# **Abigail Gentle**

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### **Education + Research**

2012-2017 - Ryde Secondary College

2018-2022 - Bachelor of Science (Computer Science) and Advanced Studies (Philosophy) (Honours)

Graduated with first class honours

Dean's List of Excellence in Academic Performance for 2020

Completed my thesis *Differential Privacy in the Group Shuffle Model*, where I explored privacy loss in the case of distinguishable groups in the shuffle model.

#### 12/2022-2/2023 - Engineering Vacation Research Internship Program

Scholarship recipient

"Fast Parsing CFGs" an investigation into the "Valiant method" for parsing context free grammars using a reduction to Boolean matrix multiplication.

#### 07/2023-Present PhD at the University of Sydney

Presently working on my PhD on "Shuffle Differential Privacy for Small Scale Surveys," exploring how the latest advances in local and shuffle differential privacy are pushing down the error in low-trust privacy setups.

## **Extracurricular Activities and Volunteering**

**Sydney University Rock Climbing and Mountaineering Club** 

2019-2021 - Membership Officer and Trips officer

2021/2022 - President

Full responsibility for the club and its outdoor trips, managing finances and insurance, organising the committee, running meetings, delegating tasks, and keeping the club active and organised.

2022-2023 - Secretary

## **Previous Work**

KG2 Agricultural Research – Software Engineer (10/02/2023 – 01/09/2023)

Responsible for research and development of machine vision, satellite crop and paddock detection programs, data analysis and management, and product design and deployment. Responsible for a small research team which introduced Google Earth Engine into the data-pipeline.