

# Gwyneth Anne Delos Santos

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## Education & Awards

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**MSc Computing Science** January 2026 – Present  
*University of Alberta* *Edmonton, AB*

**BSc Computing Science with Specialization** September 2021 – December 2025  
*University of Alberta - Graduated with Distinction* *Edmonton, AB*

## Awards

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**CRA Outstanding Undergraduate Researcher Award** (Honorable Mention) - 2026

**NSERC Undergraduate Student Research Award** (\$6000) - 2024

**Dean's List** - 2023/2024, 2024/2025

**Jason Lang Scholarship** (\$1000 each) - 2021/2022, 2022/2023, 2023/2024

## Work Experience

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**Teaching Assistant** Commencing Jan. 2026  
*University of Alberta – CMPUT 469: Artificial Intelligence Capstone* *Edmonton, AB*

- Assigned to mentor three student research capstone projects and supporting the grading of assignments and presentations

**Teaching Assistant** Sep. 2025 – Dec. 2025  
*University of Alberta – CMPUT 200: Ethics of Data Science and Artificial Intelligence* *Edmonton, AB*

- Led in-class lab help sessions, guided students with their assignments, proctored exams, and graded assessments

**Research Assistant** May 2025 – Aug. 2025  
*University of Alberta* *Edmonton, AB*

- Conducted research in reinforcement learning and privacy under Prof. Bailey Kacsmar; details in *Projects: Reinforcement Learning Privacy Analysis*

**Teaching Assistant** Jan. 2025 – Apr. 2025  
*University of Alberta – CMPUT 261: Introduction to Artificial Intelligence* *Edmonton, AB*

- Led in-class lab help sessions, guided students with their assignments, proctored exams, and graded assessments

**Research Assistant** May 2024 – Sep. 2024  
*University of Alberta* *Edmonton, AB*

- Conducted research in reinforcement learning under Prof. Michael Bowling; details in *Research Projects: Toward Agents That Reason About Their Computation*

**Summer Camp Instructor** Jun. 2023 – Aug. 2023  
*Telus World of Science Edmonton* *Edmonton, AB*

- Taught computer science fundamentals and introductory Python to students aged 6–16 in a summer camp setting
- Developed new camp activities tailored to specific age groups

## Skills

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**Coding/Markup Languages:** Python, SQLite, MongoDB, R, Shell, Java, XML, C, CSS, HTML

**Developer Tools:** Git, Visual Studio, Android Studios, Vim

**Libraries:** Numpy, Pandas, Matplotlib, PyTorch, Scikit-Learn, Gymnasium

**High-Performance Computing:** Alliance Canada

## Projects

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- Reinforcement Learning Privacy Analysis** May 2025 – Sep. 2025  
*Research Assistant* *University of Alberta — Edmonton, AB*
- Analyzed reinforcement learning system components (observations, rewards, policies) to identify potential privacy risks
  - Synthesized privacy considerations to inform the design of privacy-conscious RL-based systems
- Active Learning for Ultrasonic Animal Sound Detection** Jan. 2025 – Apr. 2025  
*AI Capstone Project* *University of Alberta — Edmonton, AB*
- Collaborated with a biology domain expert to design an AI-assisted pipeline for extracting ultrasonic rat vocalizations from noisy audio data
  - Processed and analyzed 700+ GB of unlabeled audio recordings spanning three years to isolate candidate signals from complex acoustic environments
- Toward Agents That Reason About Their Computation** May 2024 – Sep. 2024  
*NSERC USRA* *University of Alberta — Edmonton, AB*
- Designed and executed reinforcement learning experiments to evaluate Deep Q-Network (DQN) performance across multiple configurations
  - Explored action repetition as a learnable parameter to reduce decision frequency and improve computational efficiency of RL agents
- Human-in-the-Loop RL with Suboptimal Data** Sep. 2023 – Dec. 2023  
*Undergraduate Research Project* *University of Alberta — Edmonton, AB*
- Conducted data collection and analysis to evaluate how labeling suboptimal actions affects reinforcement learning performance
  - Contributed early experimental evidence supporting the feasibility of a human-in-the-loop RL approach prior to large-scale benchmarking

## Volunteer & Leadership Experience

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- Chair of Innovations, TeamUP Science Board of Governors** 2025–Present  
Created new initiatives and expanded partnerships with additional universities
- Undergraduate Research Lead, Youreka** 2025  
Mentored a team of high school students through a semester-long research project leading to a symposium
- Lab Activity Lead, WISEST Choices Conference** 2025  
Led the “Turing Tumbles” activity, introducing grade 6 students to computing logic
- Director at Large, TeamUP Science Board of Governors** 2024–2025  
Served as liaison between directors and Board members
- Director of Computer Science, Interdisciplinary Science Competition (ISC)** 2024–2025  
Developed lesson and lab to teach computer science foundations to high school students
- Director of Workshop, ISC** 2024–2025  
Organized a solar/star-gazing workshop with the Undergraduate Astronomy Society
- Assistant Director, Computer Science Workshop** 2024–2025  
Helped organize a weekend event introducing high school students to computer science
- Lead TA of CS Lab, ISC** 2024  
Instructed competition participants in Python programming and computing foundations
- Lab Activity Assistant, WISEST Choices Conference** 2024  
Supported the “Little Bits” activity, introducing students to electrical engineering
- Task Facilitator, Youth STEAM Innovation Challenge** 2022  
Moderated challenges for junior high students, fostering problem-solving in STEAM