

Marta Debrina Togatorop

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EDUCATION

University of British Columbia

Vancouver, BC

BSc Combined Major in Computer Science and Physics

Sep. 2022 – May 2026 (expected)

- **GPA:** 3.45/4.0
- **Relevant Coursework:** Quantum Mechanics, Thermal Physics, Software Engineering, Systematic Program Design, Algorithms & Data Structures, Object Oriented Programming in Java, Relativity and Quanta, Mechanics

EXPERIENCE

Undergraduate Teaching Assistant

Sep. 2024 – April 2025

University of British Columbia Faculty of Physics

Vancouver, BC

- Led tutorials and labs for first-year physics courses on mechanics, waves, and electromagnetism.
- Assisted students during office hours and responded to questions on Piazza to support their learning.
- Graded assignments and lab reports with clear, constructive feedback.

Undergraduate Research Assistant

May 2024 – Aug. 2024

University of British Columbia Vantage College

Vancouver, BC

- Created physics problems based on real-world scenarios to help students build problem-solving skills.
- Developed lesson plans to guide students through applying physics concepts to real-life situations.
- Researched how AI tools can support student understanding of complex topics in physics.

Vocational Skill Training in AI & Robotics

May 2023 – July 2023

Suzhou Industrial Park Institute of Vocational Technology

Suzhou, China

- Completed a 30-day training program sponsored by the Indonesian and Chinese governments.
- Gained hands-on experience in microcontroller programming, robot mechanics, and basic machine learning.
- Strengthened practical skills in applying technology concepts to real-world engineering challenges.

PROJECTS & RESEARCH

insightUBC | Javascript, HTML, CSS, Typescript

2024

- Collaborated in an academic course project with two team members, using Agile and Scrum methodologies.
- Built a query engine for UBC course and room data using a TypeScript backend and JavaScript, HTML, CSS frontend.
- Gained practical experience in software engineering principles.

PuppyPal | Java, JUnit, JSON, SWING GUI

2023

- Built a dog management application in Java.
- Managed data reading and writing using JSON objects.
- Implemented both console-based UI and graphical UI with the Java SWING library.

Capstone Conference Research Project | Research Collaboration

2022

- Collaborated on a research project investigating the correlation of sea salt marsh distribution and tidal zones.
- Presented research findings at the annual first-year student conference.

SKILLS PERSONAL

Passionate about data software, computer programming, and exploring the intersections of physics and technology. Experienced in Java, Python, MATLAB, and C++ programming languages. Strong problem-solving and critical thinking abilities.