

John A. Thompson

Lethbridge, AB

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Education

BSc Physics with Distinction

September 2016 - April 2022

University of Lethbridge

- Minor: English
- Graduation GPA: 3.71/4.00
- Relevant Courses: Quantum Mechanics, Electrodynamics, Statistical Mechanics, Advanced Thermodynamics, Mathematical Methods

Research Experience

Undergraduate Research Assistant

April 2021 - August 2022

Physics Research Lab, University of Lethbridge, AB

- Collaborated on a research project exploring quantum entanglement and its applications in quantum information theory.
- Conducted numerical simulations using advanced computational methods to analyze quantum states.
- Co-authored a paper published in the Journal of Quantum Physics.

Physics Research Co-op

August 2019 - August 2020

Southern Alberta Consulting Company, Calgary, AB

- Contributed to a research team investigating novel materials for quantum computing applications.
- Conducted experiments on superconducting materials and analyzed data using LabVIEW and Python.
- Presented findings at a departmental seminar.

Publications and Presentations

Thompson, J.A., Smith, E.R., & Jones, M.R. (2022). "Quantum Entanglement and Information Transfer: A Computational Study." *Journal of Quantum Physics*, 32(4), 567-580.

Brown, H., Thompson, J.A., & Patel, A. (2022). "Quantum Algorithms for Optimization Problems: An Experimental Approach." *Applied Physics Letters*, 28(7), 770-785.

"Exploring Quantum Algorithms in Machine Learning," Poster Presentation, Physics Symposium, University of Lethbridge, November 2021.

"Applications of Quantum Algorithms in Machine Learning," Workshop Presentation, Southern Alberta Consulting Company Workshop, Calgary, August 2020.

Teaching Experience

Teaching Assistant September 2020 - April 2022

University of Lethbridge, Lethbridge, AB

- Conducted interactive tutorial sessions to reinforce key concepts from lectures.
- Assisted in grading assignments, providing constructive feedback to support student development.
- Responded to student inquiries, offering clarification on complex physics principles.

Awards and Grants

Physics Excellence Scholarship, University of Lethbridge (\$500) 2022

Dean's List, University of Lethbridge 2021

Advanced Undergraduate Research Grant, Physics Council of Alberta (\$8,000) 2021

Undergraduate Research Grant, Physics Council of Alberta (\$5,000) 2020

Associations

Canadian Association of Physics Students (CAPS), member 2017 - 2022

Quantum Computing Society of Alberta (QCSA), founding member 2020 - 2022

Extracurricular

President and Founder September 2020 - April 2022

Western Book Club, University of Lethbridge, Lethbridge, AB

- Facilitate engaging and thoughtful discussions during book club meetings, encouraging members to express their opinions and insights.
- Take the lead in selecting books for the club's reading list, considering members' interests and fostering a diverse range of authors.
- Solicit and collect feedback from members to continuously improve the book club experience and address any concerns or suggestions.

Member September 2018 - April 2022

University Debate Society, University of Lethbridge, Lethbridge, AB

- Engaged in debates on scientific and ethical issues, honing communication and critical thinking skills beyond the realm of physics.
- Mentored new members, providing guidance on effective argumentation, research techniques, and public speaking skills.
- Actively engaged in outreach initiatives, promoting the Debate Society to recruit new members and broaden its impact on campus.

Work Experience

Customer Service Representative

June 2020 - Present

Costco Wholesale, Lethbridge, AB

- Successfully assisted a diverse range of customers in person, over the phone, and via email, addressing inquiries, resolving issues, and ensuring overall customer satisfaction.
- Effectively identified and resolved customer concerns, demonstrating strong analytical and problem-solving skills to ensure positive outcomes for both the customer and the company.
- Acquired in-depth knowledge of company products, enabling accurate and detailed explanations to customers, and facilitating informed purchasing decisions.
- Proactively managed and de-escalated customer conflicts, turning challenging situations into opportunities to strengthen customer relations and loyalty.

Interests and Activities

- Western Novels: studied English as a minor and specially focused on Western Novels, furthermore, founded the *Western Book Club* at my university.
- Theatre: enjoy watching and participating in dramatic productions at the University of Lethbridge.
- Portuguese: have been studying Portuguese in free time for three years.