

BRIAN GILBERT

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EDUCATION

University of Calgary

Doctor of Philosophy (SSHRC-CGSD Funded)

September 2021 – Present

Werklund School of Education, Curriculum and Learning Specialization (PhD)

Supervisor: Dr. Alonso-Yanez (Werklund School of Education)

Study Title: A Cyberethnographic Look At The Production And Consumption Of Scientific Writing Through Online Fiction

Master of Arts (SSHRC-CGSM Funded)

September 2019 – August 2021

Werklund School of Education, Curriculum and Learning Specialization (M.A.)

Supervisor: Dr. Seidel (Werklund School of Education)

Co-supervisor: Dr. Sullivan (Department of Chemistry)

Study Title: An Investigation Of Laboratory Activities For Non-STEM-Majors During The COVID-19 Pandemic

Bachelor of Science with Distinction (Concurrent B.Sc. / B.Ed. program) September 2013 – June 2019

Faculty of Science, Natural Sciences Program (B.Sc.)

Concentration 1: Chemistry

Concentration 2: Biology

Bachelor of Education (Concurrent B.Sc. / B.Ed. program)

September 2013 – June 2019

Werklund School of Education, Elementary route – Science Education Major (B.Ed.)

PROFESSIONAL EXPERIENCE

Graduate Research Assistant

November 2023 – Present

"Exploring the ways in which place-based learning is implemented in a dedicated charter school", Werklund School of Education, University of Calgary

- Implement technology into the research design to allow for a hybrid approach to data collection
- Conduct a review of the literature on place-based learning at the K-12 level

Graduate Research Assistant

November 2023 – Present

"Scholarship of Teaching and Learning (SoTL) at UCalgary: Engagement, impacts, and support", Taylor Institute for Teaching and Learning, University of Calgary

- Design strategies for promoting scholarship of teaching and learning, including creating online guides and supporting communities of practice in order to elevate and advance teaching and learning scholarship across campus and beyond
- Collaborate with ELR and the SoTL team to conduct, analyze, and report on a campus-wide study of SoTL, including interviews, focus groups, other engagement events.
- Collaborate with ELR and the SoTL team to create and support collaborative community of practices, such as scholarship/teaching-squares that include faculty, staff, and students across campus.
- Coordinate and facilitate meetings among communities of practices.
- Communicate effectively with current and future Teaching & Learning grant recipients, and members of the campus community participating in SoTL.

- Collaborate with ELR and the SoTL team to reflect on and report on the work of SoTL practitioners and efforts to support SoTL on campus, including reporting metrics, visualizations, and impactful stories to share with the University community and beyond through various outlets.
- Collaborate with ELR and the SoTL team to develop and implement online modules and resources supporting Scholarship of Teaching & Learning and the Teaching & Learning Grants program.
- Conduct a review of literature and campus strategies that support teaching and learning scholarship, students as partners in SoTL, and communities of practice around scholarship.
- Create an online database of scholarship projects, communities, and resources, particularly aligned with UCalgary's Sustainability strategy, students-as-partners and communities of practice approaches, and ethical practice in SoTL.

Sessional Instructor

September 2023 – December 2023

EDUC427 – STEM for Elementary Educators, Werklund School of Education, University of Calgary

- Designed, built, and implemented new learning tasks for assessment that emphasized understanding of course content.
- Assisted an additional section of EDUC427 with course instruction.
- Held office hours with students to discuss their progress and give guidance in their term projects.

Graduate Research Assistant

June 2022 – Present

"Using Reflection and Feedback for Improving the Student Writing Experience in Science", Natural Sciences Program, University of Calgary

- Guiding the research team through collaborative analysis of student-generated data via interpretive analysis techniques (inductive analysis, thematic analysis, narrative analysis, and artifact analysis).
- Training an Undergraduate Research Assistant in interpretive analysis methods, data generation techniques, and the research design process.
- Led ethics modification process to include interviews with Student Participants.
- Led ethics modification process to include interviews with Teaching Assistant and Sessional Instructor Participants.

Graduate Research Assistant

May 2021 – August 2022

"Relationships between student visual representations and their attitudes towards failure and risk-taking in design", Arts and Science Honours Academy Program, University of Calgary

- Compiled methodological literature to guide analysis of student artifacts and led resulting interpretative process.
- Trained another graduate Research Assistant in interpretive analysis techniques and collaborated on inductive coding process.

Teaching Assistant (0.5 TAship equivalent)

January 2022 – April 2022

SCIE331 – Scientific Explorations, General Teaching Assistant, University of Calgary

- Designed, built, and implemented new learning tasks for weekly assessment that emphasized understanding of course content.
- Assisted with learning activities in lectures as the course's only TA.
- Designed and taught two lectures on epistemologies of science research and formal logic when instructor was sick.
- Held office hours with students to discuss their progress and give guidance in their term projects.

Teaching Assistant (0.5 TAship equivalent)

January 2022 – April 2022

SCIE311 – Write & Review Scientific Reports, Tutorial Teaching Assistant, University of Calgary

- Designed, built, and implemented new learning tasks for weekly tutorials that emphasized collaborative learning and peer feedback on written work.
- Graded and provided in-depth written feedback to three iterations of an academic paper project.

Graduate Research Assistant**May 2021 – September 2021**

Design of a course-based OER for introductory Chemistry, Department of Chemistry, University of Calgary

- Compiled, formatted, and edited chapters and teaching resources to include in an Open Educational Resource Textbook for CHEM201 - General Chemistry: Structure and Bonding, Chemistry 203 - General Chemistry: Change and Equilibrium, Chemistry 211 - Foundations of Chemistry: Structure and Bonding, and Chemistry 213 - Foundations of Chemistry: Change and Equilibrium

Teaching Assistant (0.33 TAship equivalent)**January 2021 – April 2021**

SCIE331 – Scientific Explorations, Tutorial Teaching Assistant, University of Calgary

- Designed, built, and implemented new learning tasks for weekly assessment that emphasized understanding of course content.
- Assisted with learning activities in lectures as the course's only TA.
- Held office hours with students to discuss their progress and give guidance in their term projects.

Teaching Assistant (0.33 TAship equivalent)**January 2021 – April 2021**

SCIE331 – Scientific Explorations, Tutorial Teaching Assistant, University of Calgary

- Designed, built, and implemented new learning tasks for weekly assessment that emphasized understanding of course content.
- Assisted with learning activities in lectures as the course's only TA.
- Held office hours with students to discuss their progress and give guidance in their term projects.

Teaching Assistant (0.33 TAship equivalent)**January 2021 – April 2021**

SCIE311 – Write & Review Scientific Reports, Technology & Learning Specialist, University of Calgary

- Built weekly individual and team quizzes.
- Provided support to lecturers and teaching assistants in all aspects of course instruction.
- Analysed results of course surveys and compiled them into easily understandable visualizations for further coordination.

Teaching Assistant (0.5 TAship equivalent)**September 2020 – December 2020**

SCIE311 – Write & Review Scientific Reports, Tutorial Teaching Assistant, University of Calgary

- Designed, built, and implemented new learning tasks for weekly tutorials that emphasized collaborative learning and peer feedback on written work.
- Graded and provided in-depth written feedback to three iterations of an academic paper project.

Graduate Research Assistant**September 2019 – September 2020**

"Signature Pedagogies for Preservice Assessment Education: Does One Size Fit All?", Werklund School of Education, University of Calgary

- Collected and analyzed qualitative student data in the form of student interviews using narrative research techniques.
- Compiled results of scoping literature review related to research questions and analyzed literature collaboratively.

Werklund Labour Relations Committee Representative**September 2019 – September 2020**

Graduate Students' Association, University of Calgary

- Participate in discussions on GSA Collective Agreement changes.
- Contribute to discussions on GSA Collective Agreement negotiations.
- Act as representative for Werklund School of Education needs and interests on GSA Collective Agreement issues.

Teaching Assistant (0.5 TAship equivalent)**May 2020 – June 2020**

CHEM201 - General Chemistry: Structure and Bonding, Technology & Learning Specialist, University of Calgary

- Coordinate synchronous and asynchronous learning through Desire-2-Learn, TopHat, Zoom, YuJa, Padlet, Brightspace ePortfolio, and various one-off platforms needed in Laboratory, Tutorial, or Lecture Sessions.
- Assist with the design of synchronous and asynchronous learning activities to simulate laboratory skill development and support learning of course content.
- Facilitate the smooth running of a large class utilising Zoom breakout rooms, Zoom chat features, and Live discussions during lectures while the professor is delivering content.

Teaching Assistant (1.0 TAship equivalent)

January 2020 – May 2020

CHEM379 - Materials Chemistry for Engineers, Tutorial Teaching Assistant, University of Calgary

- Designed, built, and implemented new learning tasks for weekly tutorials that emphasized collaborative learning and problem solving.
- Lead learning activities in five 60-minute tutorial sections every week as the course's only TA.
- Graded 170 student tutorial assignments and group quizzes every week.
- Graded 170 exams for each of one midterm test and one final exam.

Money Smart Instructional Designer

June 2019 – May 2020

Financial Services, University of Calgary

- Developed learning objectives and outcomes for the Money Smart Online Financial Literacy badge program.
- Distilled information from prior Money Smart Financial Literacy courses into an online course format.
- Developed programs and tools for the MoneySmart Online Financial Literacy Program to be accessible to students with visual, auditory, and physical impairments.
- Set design standards for future Money Smart online programs to follow.
- Distilled financial literacy content into a form suitable for undergraduate, graduate, and post-graduate audiences.

Money Smart Peer Helper

September 2019 – May 2020

Financial Services, University of Calgary

- Facilitated bi-monthly Money Smart events.
- Participated in financial services' Money Smart outreach programs.

Teaching Assistant (0.5 TAship equivalent)

September 2019 – December 2019

CHEM201 - General Chemistry: Structure and Bonding, Tutorial Teaching Assistant, University of Calgary

- Lead learning activities in four 90-minute tutorial sections every two weeks.
- Graded 200 student tutorial assignments and group quizzes every two weeks.
- Assisted with grading of 400 exams for each of two midterm tests and one final exam.

Chemistry 30-1 Private Tutor

January 2018 – December 2019

- Aligned individual lesson plans to fit outcomes of the Alberta Program of Study for Chemistry 30-1.
- Aligned learning outcomes to personally designed cookbook experiments that can be done in the kitchen to assist with teaching of redox reactions, acids and bases, and basic organic chemistry.

Technical Support Analyst

June 2014–September 2019

Information Technologies Support Centre, University of Calgary

- Provided Advanced Technical Support and various assistance to roughly 2000+ students, faculty, and staff through telephone, e-mail, live chat, and in-person situations. Strong customer service skills.
- Logged and resolved service reports for each individual using BMC's Remedy Incident Management System and Service Now.
- Trained new employees to become comfortable with the programs and expectations of doing technical support work for the diverse needs of the university community.

- Cooperated to build and maintain automation processes through Auto Hotkey scripts that increased efficiency in handling ticket entry, assignment, and resolution details, including sending client's canned e-mail messages as required for commonly seen issues.
- Trained and proficient on MS Exchange 2016, Active Directory Domain Services, MS Office365, Cisco routing & Packet Tracer, Service Now Ticketing System, the Linux server environment.
- Acted as Queue Monitor for Tier 1 and Tier 2 technical tickets in ServiceNow.

Research Assistant / Undergraduate Studentship

February 2018–April 2019

“Authentic Science Process Learning: Shifting from the Teaching Paradigm “Learning about Science” to the Learning Paradigm “Learning Science by Doing Science”, Nanoscience Program, Faculty of Science, University of Calgary

- Collaborated with teaching faculty, staff, and students to align course outcomes with program goals established by the Faculty of Science.
- Conducted questionnaires and interviews with undergraduate students and teaching faculty in the Nanoscience program.
- Collected and analyzed qualitative student data in the form of questionnaires and interviews using constructivist grounded theory.
- Collected and analyzed quantitative student data in the form of Likert-scale surveys.
- Disseminated findings through written papers and conference presentations.

Research Assistant

September 2017–September 2018

Department of Chemistry, Faculty of Science, University of Calgary

- Compiled chapters and teaching resources to include in an Open Educational Resource Textbook for CHEM209: General Chemistry for Engineers in sections titled High-School Review, How Far (Equilibrium), and How Fast (Rates).
- Edited and formatted text and images of Open Educational Resource Textbook for CHEM209: General Chemistry for Engineers to create a seamless look between sections.
- Paid for by the University of Calgary 2017-18 OER Grant given to Dr. Nicole Sandblom.

Service Delivery Analyst

June 2017–December 2017

Information Technologies Support Centre, University of Calgary

- Acted as an expert on Group File Shares and Active Directory maintenance.
- Supported clients with network file system related issues.
- Contributed to development of Group File Share maintenance policy.
- Implemented new Active Directory and Group File Share policy into practice.
- Provided access to Group File Shares for approved users.
- Supported Tier 1 and Tier 2 staff on the IT Support and Service Delivery team on Group Share related tickets.

ServiceNow Super User

July 2016–June 2017

Information Technologies Support Centre, University of Calgary

- Played a significant role in testing and implementation of new campus-wide ticketing system to be used by multiple departments across the University of Calgary.
- Checked for technical issues with the ServiceNow system prior to campus-wide implementation.
- Assisted in development of processes that could be handled automatically by the ServiceNow system upon implementation at the Information Technologies Support Centre.

Learning Technologies Coach

June 2016–March 2017

Faculty of Nursing, University of Calgary

- Worked hands-on with various learning technologies supported by the Taylor Institute for Teaching and Learning and the University of Calgary as a whole (including Desire2Learn, Adobe Connect, WordPress, and BlogSpot).
- Worked one-on-one with professors teaching in the faculty of Nursing to ensure they were feel comfortable using the technology available in its application to their classroom objectives.
- Provide technical support to Nursing instructors when using various learning technologies.
- Remain up-to-date with the newest advancements in learning technologies that may benefit the instructors in the faculty of Nursing.

Research Assistant

May 2016 – August 2016

Schulich School of Engineering, University of Calgary

- Worked one-on-one with instructors to organize, develop, and implement learning instruments for use in a general chemistry course for engineers
- Prepared and designed tools for statistical analysis of student progress

PUBLICATIONS AND PRESENTATIONS

Refereed Contributions

R Clapson, M. L., Schechtel, S., Gilbert, B., & Mozol, V. J. (2022). ChemEscape: Redox and Thermodynamics; Puzzling Out Key Concepts in General Chemistry. *Journal of Chemical Education*.

R Campbell, H., Petrick, H., Gilbert, B.C.T., Muhammad, A., & Turner, K.L. (2021). Fostering A Remote Cohort Community of Graduate Student Peers During The COVID-19 Pandemic. *The Canadian Journal For New Scholars In Education*, 12(1), pp. 48-55.

R Clapson, M. L., Gilbert, B.C.T., & Musgrove, A. (2020). Race to the Reactor and Other Chemistry Games: Game-Based and Experiential Learning Experiences in Materials and Polymer Chemistry. *Journal of Chemical Education*, 97(12), pp. 4391-4399.

R Gilbert, B.C.T., Clapson, M. L., & Musgrove, A. (2020). ChemEscape, Polymer Chemistry: Solving Interactive Puzzles Featuring Scaffolded Learning to Promote Student Understanding of Polymers and Structure–Property Relationships. *Journal of Chemical Education*, 97(11), pp. 4055-4062.

R Schechtel, S., Mozol, V., Clapson, M., Gilbert, B.C.T., Tran, J., & White, S. (2020). The Name of the Game: Utilizing Experiential Learning in the Classroom to Engage, Empower and Reflect on Student Learning and Assessment. *Papers on Postsecondary Learning and Teaching*, 4, 17-24.

R Clapson, M. L., Gilbert, B.C.T., Mozol, V. J., Schechtel, S., Tran, J., & White, S. (2019). ChemEscape: educational battle box puzzle activities for engaging outreach and active learning in general chemistry. *Journal of Chemical Education*, 97(1), pp. 125-131.

Non-Refereed Contributions

Gilbert, B.C.T. (2021). *An investigation of laboratory activities for non-STEM-majors during the COVID-19 pandemic (Unpublished master's thesis)*. University of Calgary.

Other contributions

Gilbert, B.C.T, Seidel, J., & Sullivan, E. (2023, May). An Investigation Of Laboratory Activities For Non-STEM-Majors During The COVID-19 Pandemic. Poster presented at #CLEAR23 (The Chemistry Laboratory: Evaluation, Assessment & Research - An online symposium on education in the chemistry laboratory), Royal Society of Chemistry.

Sandblom, S., Campbell, É, & Gilbert, B.C.T. (2023, April). Reimagining Reflective Activities in Your Blended and Online Teaching. Interactive workshop presented at the 2023 Conference on Postsecondary Learning and Teaching, Taylor Institute for Teaching and Learning, University of Calgary, Calgary, AB, Canada.

- Paris, B., Delanoy, N., Gilbert, B.C.T., Koh, K., Caceres, Z.D., & Chapman, O. (2021, June). Signature Pedagogies in Preservice Teacher Preparation: A Scoping Review. Talk presented at the Canadian Society for the Study of Higher Education 2021 Conference.
- Paris, B., Delanoy, N., Gilbert, B.C.T., Koh, K., Caceres, Z.D., & Chapman, O. (2021, April). Exploring Signature Pedagogies for Preservice Assessment Education. Talk presented at the American Educational Research Association (AERA) 2021 Annual Meeting.
- Gilbert, B.C.T., Clapson, M., & Musgrove, A. (2020). *ChemEscape: An introduction to polymer chemistry principles via an interactive escape room*. Talk accepted to the 2020 Biennial Conference on Chemical Education (Abstract accepted March 31, 2020). Because of the global COVID-19 pandemic, the 2020 Biennial Conference on Chemical Education was terminated on April 2, 2020, by the Executive Committee of the Division of Chemical Education, American Chemical Society; and, therefore, this presentation could not be given as intended.
- Musgrove, A., Clapson, M., & Gilbert, B. (2020). Race to the reactor and other chemistry games: Gamification of polymer chemistry to enhance student understanding of material structure-properties relations. Talk accepted to the 2020 Biennial Conference on Chemical Education (Abstract accepted March 31, 2020). Because of the global COVID-19 pandemic, the 2020 Biennial Conference on Chemical Education was terminated on April 2, 2020, by the Executive Committee of the Division of Chemical Education, American Chemical Society; and, therefore, this presentation could not be given as intended.
- Gilbert, B.C.T., Clapson, M. L., & Musgrove, A. (2020). *ChemEscape: An Introduction to Polymer Chemistry Principles Via An Interactive Escape Room*. Talk accepted to the 103rd Canadian Chemistry Conference and Exhibition (Abstract accepted May 8, 2020). Because of the global COVID-19 pandemic, the 103rd Canadian Chemistry Conference and Exhibition was terminated by the CCCE 2020 Organizing Committee; and, therefore, this presentation could not be given as intended.
- Gilbert, B.C.T., Clapson, M. L., & Musgrove, A. (2020). *Race to the Reactor and Other Chemistry Games V2 – Gamification of Polymer Chemistry to Enhance Student Understanding of Functional Group Properties and Correlation to Polymer Physical Characteristics*. Talk accepted to the 103rd Canadian Chemistry Conference and Exhibition (Abstract accepted May 8, 2020). Because of the global COVID-19 pandemic, the 103rd Canadian Chemistry Conference and Exhibition was terminated by the CCCE 2020 Organizing Committee; and, therefore, this presentation could not be given as intended.
- Gilbert, B.C.T. (2020, February). *pHenomenology*. Talk presented at the Tapestries of Learning Conference put on by the Graduate Programs in Education Students' Association, Werklund School of Education, Calgary, AB, Canada.
- Mozol, V., Gilbert, B.C.T., Tran, J., Yu, P., Clapson, M., Schechtel, S., & White, S. (2019, June). *Thinking inside the box: Using student generated puzzles as a form of assessment*. Talk presented at the 102nd Canadian Chemistry Conference and Exhibition, Canadian Society for Chemistry, Quebec, QC, Canada.
- Mozol, V., Gilbert, B.C.T., Tran, J., Yu, P., Clapson, M., Schechtel, S., & White, S. (2019, June). *ChemEscape: An introduction to common chemistry principles via an interactive escape room experience*. Talk presented at the 102nd Canadian Chemistry Conference and Exhibition, Canadian Society for Chemistry, Quebec, QC, Canada.
- Mozol, V., Gilbert, B.C.T., Tran, J., Yu, P., Clapson, M., Schechtel, S., & White, S. (2019, May). *Thinking inside the box: Utilizing student-generated puzzles as a form of assessment within the classroom*. Workshop presented at the 2019 Conference on Postsecondary Learning and Teaching, Taylor Institute for Teaching and Learning, University of Calgary, Calgary, AB, Canada.
- Mozol, V., Gilbert, B.C.T., Tran, J., Yu, P., Clapson, M., Schechtel, S., & White, S. (2019, April). *ChemEscape: An introduction to common chemistry principles via an interactive escape room*. Workshop presented at the 2019 Conference on Postsecondary Learning and Teaching, Taylor Institute for Teaching and Learning, University of Calgary, Calgary, AB, Canada.

- Gilbert, B.C.T.*, Musgrove, A., Sandblom, N. T. A., & Mozol, V., Jarvis, J., & Ly, L. (2019, February). *Developing course responsive resources*. Talk presented at the Western Canadian Association for Student Teachers, Werklund School of Education, University of Calgary, Calgary, AB, Canada.
- Jones, G., Webber, T., & Gilbert, B.C.T. (2019, February). *Valued AND vulnerable: the complex experiences of male elementary teachers*. Talk presented at the Western Canadian Association for Student Teachers, Werklund School of Education, University of Calgary, Calgary, AB, Canada.
- Gilbert, B.C.T.*, Adams, J., Cramb, D., & Labouta, H. (2018, November). *Nanoscience as a bridge for undergraduate interdisciplinary collaboration*. Symposium on Scholarship of Teaching and Learning, Mount Royal University Institute for Scholarship of Teaching and Learning, Banff, AB, Canada.
- Gilbert, B.C.T., Musgrove, A.*, Sandblom, N. T. A., & Mozol, V., Jarvis, J., & Ly, L. (2018, May). *Student-led creation of an open learning resource*. Talk presented at the 101st Canadian Chemistry Conference and Exhibition, Canadian Society for Chemistry, Edmonton, AB, Canada.
- Gilbert, B.C.T.*, Musgrove, A., Sandblom, N. T. A., & Mozol, V. (2018, May). *Inviting a student partner into course development*. Talk presented at the 101st Canadian Chemistry Conference and Exhibition, Canadian Society for Chemistry, Edmonton, AB, Canada.
- Gilbert, B.C.T.*, Tran, J.*, Mozol, V.*, Clapson, M., Schechtel, S., White, S., & Yu, P. (2018, May). *Escaping to a career in chemistry (a multimodal C3 poster experience)*. Talk presented at the 45th C3 Conference, College Chemistry Canada, Edmonton, AB, Canada.
- Mozol, V.*, Gilbert, B.C.T.*, Tran, J.*, Yu, P., Clapson, M., Schechtel, S., & White, S. (2018, May). *Escaping to a career in chemistry*. Poster presented at the 45th C3 Conference, College Chemistry Canada, Edmonton, AB, Canada.
- Gilbert, B.C.T., Fedorko-Bartos, K., Lock, J., & Benoit, W. (2018, May). *Untapped resources: Bachelor of education students partnering in SoTL research*. Talk presented at the 2018 Conference on Postsecondary Learning and Teaching, Taylor Institute for Teaching and Learning, University of Calgary, Calgary, AB, Canada.
- Gilbert, B.C.T.*, Makkai, M., & Robinson, J. (2018, February). *H2RobO: A hero in the wetlands and the grade 5 classroom*. Poster presented at the 2018 Palliser Teachers' Convention, Calgary, AB, Canada.
- Gilbert, B.C.T., Makkai, M., & Robinson, J. (2017, December). *H2RobO: A hero in the wetlands and the grade 5 classroom*. Poster presented at the 4th annual Science, Technology, Engineering, and Mathematics (STEM) Integration Showcase, Werklund School of Education, University of Calgary, Calgary, AB, Canada.
- Gilbert, B.C.T.*, Sandblom, N. T. A., & Musgrove, A. (2017, November). *Enhancing course development through conversations*. Poster presented at the 2017 Students' Union Undergraduate Research Symposium, University of Calgary, Calgary, AB, Canada. Accessible from <http://hdl.handle.net/1880/106292>.
- Gilbert, B.C.T.*, Sandblom, N. T. A., & Musgrove, A. (2017, May). *Developing visual aids and resources to support first-year students in learning about buffers*. Talk presented at the 100th Canadian Chemistry Conference and Exhibition, Canadian Society for Chemistry, Toronto, ON, Canada.
- Gilbert, B.C.T.*, Sandblom, N. T. A., & Musgrove, A. (2017, May). *Enhancing course development through conversations*. Poster presented at the 2017 Conference on Postsecondary Learning and Teaching, Taylor Institute for Teaching and Learning, University of Calgary, Calgary, AB, Canada. Accessible from <http://hdl.handle.net/1880/52129>.

HONOURS AND AWARDS

SSHRC Canada Graduate Scholarship – Doctoral Competition

2021

Social Sciences and Humanities Research Council of Canada – Canada Graduate Scholarships Program (CGS)

Eyes High Doctoral Recruitment Scholarship

2021

University of Calgary	Donna B. Rediger Graduate Scholarship in Education	2020
University of Calgary	Faculty of Graduate Studies Master's Research Scholarship	2020
University of Calgary	2nd Best Oral Presentation for Day 2 of the Tapestries of Learning Symposium	2020
Graduate Programs in Education Students' Association	SSHRC Canada Graduate Scholarship – Master's Competition	2019
Social Sciences and Humanities Research Council of Canada – Canada Graduate Scholarships Program (CGS)	Faculty of Graduate Studies Master's Scholarship	2019
University of Calgary	Mary Esther Lily Avis Bursary	2018
University of Calgary	Jason Lang Scholarship	2018
Government of Alberta	Faculty of Science Dean's List (2017/2018)	2018
University of Calgary	General Student Scholarship	2018
College Chemistry Canada	U Make a Difference Award (Nominee)	2018
University of Calgary	University of Calgary Undergraduate Merit Award	2017
University of Calgary	Best Undergraduate Oral Presentation in Chemistry Education	2017
Canadian Society for Chemistry	Best Student Poster Awards (1st place)	2017
2017 Conference on Postsecondary Learning and Teaching	Students' Union Undergraduate Travel Award	2017
University of Calgary	Alexander Rutherford Scholarship	2013
Government of Alberta	Chief Scout's Award	2010
Scouts Canada		

EXTRACURRICULAR AND VOLUNTEER EXPERIENCE

Student volunteer	June 2018 – Present
Department of Chemistry Outreach Committee, University of Calgary	
Co-Founder and Co-Organizer	September 2017 – Present
ChemEscape – Chemistry themed escape room, Beakerhead	
Science engagement volunteer/coordinator	July 2019 – April 2020
Inclusive Post Secondary Education, University of Calgary	
Volunteer – Planning	September 2019 – February 2020
Tapestries of Learning conference, GPESA, University of Calgary	
Orientation Leader	July 2014 – September 2019
Leadership and Student Engagement Office, University of Calgary	
Volunteer Teaching Assistant and Senior Mentor	January 2019 – April 2019

SCIE511/CMCL507/CMCL509, University of Calgary Club President	July 2017 – August 2019
Natural Sciences Student Association (NSSA), University of Calgary Co-Founder and Co-Organizer	October 2017 – April 2019
Werklund School of Education Concurrent B.Ed. Student Network, University of Calgary Co-Founder and Co-Organizer	September 2017 – April 2019
Faculty of Science Undergraduate Poster Symposium, University of Calgary Guest lecturer (Chemistry)	July 2018
Inclusive Post Secondary Education, University of Calgary Science Teacher and Provincial Achievement Test Scribe	April 2018 – June 2018
Dr. E. W. Coffin Elementary School, Calgary Board of Education Volunteer Teaching Assistant and Senior Mentor	January 2018 – April 2018
SCIE511/CMCL507/CMCL509, University of Calgary Werklund School of Education Representative	November 2017 – April 2018
Student Advisory Council, University of Calgary Natural Sciences Program Representative	September 2017
University of Calgary Open House, University of Calgary Vice-President Communications	July 2016–June 2017
Natural Sciences Student Association (NSSA), University of Calgary Member and Beakerhead Volunteer	April 2016–June 2017
Engineering Education Student Society (E ² S ²), University of Calgary General Volunteer	April 2017
2017 Conference on Postsecondary Learning and Teaching, University of Calgary Student Adjudicator	January 2017
2017 University of Calgary Teaching Awards, University of Calgary Natural Sciences Program Representative	September 2016
University of Calgary Open House, University of Calgary Natural Sciences Program Representative	September 2015–September 2016
Science Student Society (S ³), University of Calgary Volunteer Teaching Assistant	September 2013–June 2016
Hidden Valley Elementary School, Calgary Board of Education General Volunteer	April 2016
2016 Conference on Postsecondary Learning and Teaching, University of Calgary Science Outreach Volunteer	January 2015 – April 2016
Let's Talk Science, Parlons Sciences Organizing Volunteer	October 2015
TELUS Spark's Adults' Only Night, University of Calgary Activity Leader and Scouter-in-Training	June 2009 – June 2013
38 Simons Creek Scouts, Scouts Canada	