

**UNIVERSITY OF VICTORIA
CURRICULUM VITAE**

TODD M. MILFORD

MAY 2025

Faculty: Education

Dept: Curriculum & Instruction

1. Degrees and Diplomas

<u><i>Degree or Diploma</i></u>	<u><i>Field</i></u>	<u><i>Institution</i></u>	<u><i>Year Granted</i></u>
PhD of Philosophy	Measurement and Evaluation	University of Victoria	2009
Master of Education	Special Education	University of Victoria	2004
Diploma of Education	Special Education	University of British Columbia	2000
Bachelor of Education	Elementary Education	University of Victoria	1997
Bachelor of Science	Biology	University of Victoria	1994

Title of Dissertation

<u><i>Degree</i></u>	<u><i>Title</i></u>
PhD	Title: An Investigation of International Science Achievement Using the OECD's PISA 2006 Data Set.

2. Positions Held Prior to or Concurrent with Appointment at University of Victoria

2016 – 2024	Adjunct Associate Professor: Cross Listed, Educational Psychology and Leadership Studies, Faculty of Education, University of Victoria, Victoria, BC
2016 – 2021	Adjunct Lecturer Level B, Arts, Education and Law, Griffith University, Brisbane, QLD
2013 – 2014	Adjunct Assistant Professor, Faculty of Education, University of Victoria, Victoria, BC
2012 – 2013	Lecturer Level B, Arts, Education and Law, Griffith University, Brisbane,

	QLD
2010 – 2012	Sessional Instructor, Faculty of Education, University of Victoria, Victoria, BC
2009 – 2010	Limited Term Assistant Professor, Faculty of Education, University of Victoria, Victoria, BC
2005 – 2009	Sessional Instructor, Faculty of Education, University of Victoria, Victoria, BC
2004 – 2007	Low Incidence Special Education Teacher, School District 63, Victoria, BC
2001 – 2003	Special Education Assistant, School District 61, Victoria, BC
1998 – 2001	Classroom Teacher, Grade 8 ~ 10, Choice School, Richmond, BC

3. Major Field(s) of Scholarly or Professional Interest

- Science Education
- Quantitative Research Methods
- Large Scale Data Analysis
- Classroom Assessment

4. Memberships and Offices Held in Learned and Professional Societies

<u>Date(s)</u>	<u>Association, Title, etc.</u>
2022 - Present	Faculty Representative Chair, University Club, University of Victoria
2019 - 2022	Faculty Representative Vice-Chair, University Club, University of Victoria
2017 - 2018	President Science Education Research Group (SERG)
2016 - Present	Member, National Association for Research in Science Teaching (NARST)
2016 - 2017	Vice President Science Education Research Group (SERG)
2015 - 2016	Secretary/Treasurer Science Education Research Group (SERG)
2011 - Present	Member, Faculty of Graduate and Postdoctoral Studies
2009 - Present	Member, Association of Science Teachers Educators (ASTE)
2006 - Present	Member, Canadian Society for the Study of Education (CSSE)
2009 – 2011	Member, National Science Teachers Association (NSTA)
2009 - 2012	Member, American Educational Research Association (AERA)
1997 - 2008	Member, BC College of Teachers

5. Scholarships, Fellowships, Honours, and Awards

<u>Date(s)</u>	<u>\$Amount</u>	<u>Details</u>
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2025	\$956251	University of Manitoba. Canadian Institutes of Health Research project grant competition. (Colaborator: 5%)
2024	\$25000	BC Ministry of Education, Numeracy and Literacy in BC Teacher Education Programs (Co-Investigator: 50%)
	\$1050	University of Victoria, Scholarly Conference Travel Grant (PI)
2023	\$1050	University of Victoria, Scholarly Conference Travel Grant (PI)
2022	\$40000	BC Ministry of Education, Data Literacy Pilot Project (Co-Investigator: 35%)
	\$24935	University of Victoria. SSHRC Partnership Engagement Grant. Assessing the impact of the COVID-19 pandemic on the psychosocial functioning of children with disabilities (Collaborator: 20%)
	\$1050	University of Victoria, Scholarly Conference Travel Grant (PI)
2021	\$50000	BC Ministry of Education, Intercultural Education Research Project (Co-Investigator: 35%)
	\$24840	University of Ottawa. SSHRC Partnership Engagement Grant. Supporting Early Childhood STEM Education: Creating a Digital Tool Kit (Collaborator: 25%)
2020	\$24966	University of Ottawa. SSHRC Connections Grant. Science and STEM in the Early Years: Setting the Scene for Innovation (Co-Investigator: 50%)
	\$1250	University of Victoria, Scholarly Conference Travel Grant (PI)
	\$5000	Faculty of Education COVID-19 Emergency Research Fund. Supporting early childhood STEM education during the pandemic (and afterwards): Examining parents' and early childhood educators' perceptions of a digital toolkit (PI)
2019	\$500	University of Victoria, Grant Applications Assistance Program (GAAP)
	\$1000	University of Victoria, Research Engagement Fund (REF)
	\$1250	University of Victoria, Scholarly Conference Travel Grant (PI)
2018	\$91368	University of Alberta. SSHRC Insight Development Grant Examining changes to self-regulated learning during competency-based professional training (Co-Investigator: 35%)
	\$71483	Memorial University of Newfoundland. SSHRC Insight Grant. Science teacher educators: Inclusive perspectives and practices (Collaborator: 25%)
	\$69090	University of Ottawa. SSHRC Insight Development Grant. Science, technology, engineering, and mathematics (STEM) in early childhood education. Possibilities and challenges (Co-Investigator: 50%)
	\$1250	University of Victoria, Scholarly Conference Travel Grant (PI)
2017	\$6700	Brandon University, New Faculty Research Grant (Co-Investigator: 50%)
	\$1000	University of Victoria, Dean Honorarium (PI)
	\$1350	University of Victoria, Scholarly Conference Travel Grant (PI)
2016	\$25000	BC Ministry of Education, Documentation Research Project: MED-GAD-003 (Co-Investigator: 35%)

	₩1000	East China Normal University, Honorarium (PI)
	\$1350	University of Victoria, Scholarly Conference Travel Grant (PI)
2015	A\$2000	Griffin University, Research Development Scheme (Co-Investigator: 50%)
	\$6722	University of Victoria, SSHRC Internal Research Grant (PI)
	\$9975	University of Ottawa, Faculty of Education (Co-Investigator: 50%)
2014	\$1350	University of Victoria, Scholarly Conference Travel Grant (PI)
	\$9975	University of Ottawa, Faculty of Education (Co-Investigator: 50%)
2013	\$1500	University of Victoria, Continuing Sessional Lecturer Scholarship Fund (PI)
2012	A\$3000	Griffith University, Honours and HDR Internship Program (PI)
	A\$2000	Griffith University, Research Development Scheme for Early Career Researchers (ECR) (PI)
2011	\$1500	University of Victoria, Continuing Sessional Lecturer Scholarship Fund (PI)
2008	\$1000	Vera Flett Keddy Buchanan Scholarship for Graduate Studies
2007	\$4500	NSERC, UVic Pacific CRYSTAL Research Fellowship (RA)

6. Appointments at University of Victoria

Academic

<u>Inclusive Years</u>	<u>Rank</u>	<u>Academic Unit</u>
2025 – Present	Acting Dean	Education
2020 – 2025	Chair, EDCI	Education
2020	Interim Chair, EDCI	Education
2018 – 2020	Graduate Advisor, EDCI	Education
2017 – Present	Associate Professor	Education
2016 – 2017	Lead Teacher Education	Education
2015 – 2017	Assistant Professor	Education

7. Scholarly and Professional Activities

a. Articles Published in Refereed Journals

Macoun, S. J., Evancio, L., Rose, C. A., & **Milford, T.** (2024). Development and Piloting of an Abbreviated Bullying Assessment Tool for Youth with and without Special Education Needs: The Adolescent Risk and Connectedness Survey and Interview (ARC-S and ARC- I). *Exceptionality*, 1–16. <https://doi.org/10.1080/09362835.2024.2390063>

Davis, S. K., Edwards, R. L., Hadwin, A. F., & **Milford, T. M.** (2021). Exploring student engagement factors in a blended undergraduate course. *Canadian Journal of the Scholarship of Teaching and Learning*, 11(3), 1-19.

- Rinehart, R., Kuhn, M., & **Milford, T. M.** (2020). The relationship of epistemic cognition and dialogic feedback in elementary and middle school science classrooms. *Research in Science & Technological Education*. <https://doi.org/10.1080/02635143.2020.1799779>
- Davis, S. K., Edwards, R. L., Hadwin, A. F., & **Milford, T. M.** (2020). Using prior knowledge and student engagement to understand student performance in an undergraduate learning-to-learn course. *International Journal for the Scholarship of Teaching and Learning*, 14(2), 1-12. <https://doi.org/10.20429/ijsoetl.2020.140208>
- Lawrence, B.C., Ntelioglou, B.Y., & **Milford, T.M.** (2020). It's complicated: Learning and teaching is not about "Learning Styles.", 8. *Frontiers*. doi: 10.3389/frym.2020.00110
- Olstad, D., Prowse, R., Raine, K., Tomlin, D., Kirk, S., McIsaac, J., Mâsse, L., Caswell, M., Hanning, R., **Milford, T.**, & Naylor, P. (2020). Baseline results from the Eat, Play, Live trial: A randomized controlled trial within a natural experiment examining the role of nutrition policy and capacity building in improving food environments in recreation and sport facilities. *Food Policy*, 92, 101870. <https://doi.org/10.1016/j.foodpol.2020.101870>.
- Lawrence, B. C., Harrison, G. L., & **Milford, T. M.** (2019). Effects of positive parenting on mental health in adolescents with learning disabilities. *Learning Disabilities: A Contemporary Journal*, 17(2), 223-244.
- Lane, C., Naylor, P. J., Tomlin, D., Kirk, S. F. L., Hanning, R., Masse, L. C., Olstad, D. L., Prowse, R., Caswell, S., Jarvis, S., **Milford, T. M.**, & Raise, K. (2019). Healthy Vending Contracts: Do localized policy approaches improve the nutrition environment in publically funded recreation and sports facilities? *Preventative Medicine Reports*. 16, 1-7. <https://doi.org/10.1016/j.pmedr.2019.100967>
- Olstad, D., Prowse, R., Raine, K., Tomlin, D., Kirk, S., McIsaac, J., Mâsse, L., Caswell, M., Hanning, R., **Milford, T.**, & Naylor, P. (2020). Baseline results from the Eat, Play, Live trial: A randomized controlled trial within a natural experiment examining the role of nutrition policy and capacity building in improving food environments in recreation and sport facilities. *Food Policy*, 92, 101870. <https://doi.org/10.1016/j.foodpol.2020.101870>.
- Tippett, C., & **Milford, T.** (2017). Findings from a Pre-kindergarten Classroom: Making the Case for STEM in Early Childhood Education. *International Journal of Science and Mathematics Education*, 15(1), 67-86. <https://doi.org/10.1007/S10763-017-9812-8>.
- Beamish, W., Meadows, D., Davies, M., & **Milford, T. M.** (2016). Benchmarking practice to improve post-school transitions for students with special education needs. *CASIE Review*, 4, 86-104. http://docs.wixstatic.com/ugd/826829_2ee9515232f942dfa74d59f6b7aa435b.pdf
- Mather, D. S., **Milford, T. M.**, & McRae, L. M. (2015). Does dyslexia develop from left eye dominance? *Perceptual & Motor Skills*, 121(2), 569–601. <https://doi.org/10.2466/15.10.PMS.121c21x5>
- Walkinshaw, I., **Milford, T. M.**, & Freeman, K. (2015). Individual consultations: Academic writing outcomes for international students. *SAGE Open*. doi:10.1177/21S8244015607936

- Milford, T. M., & Tippet, C. D.** (2015). The design and validation of an early childhood STEM classroom observational protocol. *International Research in Early Childhood Education*, 6(1), 24–37. <https://doi.org/10.4225/03/5817CDCD6B1E8>.
- Olson, J. K., Tippet, C. D., **Milford, T. M.**, Ohana, C., & Clough, M. P. (2015). Science teacher preparation in a North American context. *Journal of Science Teacher Education*, 26(1), 7–28. <https://doi.org/10.1007/s10972-014-9417-9>.
- Milford, T. M., & Tippet, C. D.** (2013). Do prior science experiences make a difference? Preservice teachers' images of scientists. *Journal of Science Teacher Education*, 4(24), 745–762. <https://doi.org/10.1007/s10972-012-9304-1>
- Paynter, J., Riley, E., Beamish, W., Davies, M., & **Milford, T. M.** (2013). The double ABCX model of family adaptation in families of a child with an autism spectrum disorder attending an Australian early intervention service. *Research in Autism Spectrum Disorders*, 7(10), 1183–1195.
- Vandermeer, J., Beamish, W., **Milford, T. M.**, & Lang, W. (2013). iPad presented social stories for young children with autism. *Developmental Neurorehabilitation*, 18(2), 75–81. doi:10.3109/17518423.2013.809811
- Milford, T. M., & Etmanski, C.** (2012). Collaborating to teach research methods in education. *Northwest Passage: Journal of Educational Practices*, 10(1), 79–90.
- Milford, T. M., Jagger, S., Yore, L. D., & Anderson, J. O.** (2011). National influences on science education reform in Canada. *Canadian Journal of Science, Mathematics and Technology Education*, 10(4), 370–381. <https://doi.org/10.1080/14926156.2010.528827>
- Milford, T. M., & Brown, L.** (2010). The role of self-assessment in the preparation of pre-service teachers. *Northwest Passage: Journal of Educational Practices*, 8(1), 47–58.
- Milford, T. M., & Harrison, G.** (2010). Using the “PLEASE” strategy with a struggling middle school writer with special needs. *Intervention in School and Clinic*, 45(5), 326–332. <https://doi.org/10.1177/1053451209359080>
- Milford, T. M., Ross, S., & Anderson, J. O.** (2010). An opportunity to better understand schooling: The growing presence of PISA in the Americas. *International Journal of Science and Mathematics Education*, 8(3), 453–473. <https://doi.org/10.1007/s10763-010-9201-z>
- Gunion, K., **Milford, T. M.**, & Stege, U. (2009). The paradigm recursion: Is it more accessible when introduced in Middle School? *Journal of Problem Solving*, 2(2), 142–172. <https://doi.org/10.7771/1932-6246.1063>.
- b. Books, Chapters, Monographs**
- Milford, T. M.** (2013). *An investigation of international science achievement using the OECD's PISA 2006 data set*. Saarbrücken, Germany: Lambert Academic Publishing.
- Tippet, C. D. & **Milford, T. M.** (Eds.). (2025). *Seeing science through the eyes of Canadian teachers and learners*. Dordrecht, The Netherlands: Springer
- Tippet, C. D., & **Milford, T. M.** (Eds.). (2023). *Exploring elementary science teaching and learning in Canada*. Dordrecht, The Netherlands: Springer

- Tippett, C. D., & **Milford, T. M.** (Eds.). (2019). *Science education in Canada: Consistencies, commonalities, and distinctions*. Dordrecht, The Netherlands: Springer
- Milford, T. M.**, & Tippett, C. D. (2025). Recognizing—and reframing—secondary and tertiary science education trends in Canada. In C. D. Tippett & T. M. Milford, (Eds). *Seeing science through the eyes of Canadian teachers and learners*. Springer.
- Gonzalez, R.Y., Tippett, C.D., & **Milford, T.M.** (2023). Theory and Application of an Emergent Curriculum. In: Trifonas, P. P., & Jagger, S. (eds.) *Handbook of Curriculum Theory and Research*. Springer International Handbooks of Education. Springer.
https://doi.org/10.1007/978-3-030-82976-6_44-1
- Tippett, C. D., McDermott, M. A., & **Milford, T. M.** (2023). The multimodal affordances of language in STEM education. In: X. Liu & L. Wang (eds.) *International Encyclopedia of Education* (4th ed.): Vol. 13. STEM and beyond. Elsevier Ltd.
- Walkinshaw, I., Qi, G. Y., & **Milford, T.** (2022). ‘You’re very rich, right?’: Personal finance as an (in)appropriate or (im)polite conversational topic among Asian ELF users. In: I. Walkinshaw (ed.) *Pragmatics in English as a lingua franca: Findings and developments*. Berlin: De Gruyter Mouton.
- Milford, T.**, Lawrence, B., McGhie-Richmond, D., Brenton-Haden, S. (2022). Inclusive Education in British Columbia: Teaching to Diversity. In: Beamish, W., Yuen, M. (eds) *The Inclusion for Students with Special Educational Needs across the Asia Pacific. Advancing Inclusive and Special Education in the Asia-Pacific*. Springer, Singapore.
https://doi.org/10.1007/978-981-19-2221-3_9
- Gonzalez, R. Y., Tippett, C. D., & **Milford, T. M.** (2022). Saving the world: One R at a time. In: F. Allaire & J. Killham (eds.) *Teaching and Learning Online: Science for Elementary Grade Levels*. Information Age Publishing.
- Milford, T. M.** & Kiddell, R. (2020). Choice Theory and Reality Therapy – William Glasser. In: B. Akpan & T. Kennedy (eds.) *Science education in theory and practice*. Dordrecht, The Netherlands: Springer. https://doi.org/10.1007/978-3-030-43620-9_3
- Milford, T. M.**, Lawrence, B., Beamish, W., Meadows, D., & Davies, M. (2020). A Strategy for Building post-school transitions. In: E. A. Marshall & J. E. Symonds (eds.) *Young adult development at the school-to-work transition: International pathways and processes*. Oxford, England: Oxford University Press.
- Kiddell, R., Bell, D., & **Milford, T. M.** (2019). The Science Classroom, Learning Outcomes, and Inquiry: A Vision for 2070. In: B. Akpan (ed.) *Science education: Visions of the future*. Dordrecht, The Netherlands: Springer.
- Lewthwaite, B., Tippett, C. D., **Milford, T. M.** (2019). Yukon Territories. In: C. D. Tippett & T. M. Milford (eds.) *Science education in Canada: Consistencies, commonalities, and distinctions*. Dordrecht, The Netherlands: Springer.
- Milford, T. M.**, & Tippett, C. D. (2019). Introduction. In: C. D. Tippett & T. M. Milford (eds.) *Science education in Canada: Consistencies, commonalities, and distinctions*. Dordrecht, The Netherlands: Springer.

- Tippett, C. D., **Milford, T. M.**, & Yore, L. D. (2019). Epilogue. In: C. D. Tippett & T. M. Milford (eds.) *Science education in Canada: Consistencies, commonalities, and distinctions*. Dordrecht, The Netherlands: Springer.
- Hunte, M. R., Martin, J. M., & **Milford, T. M.** (2019) Achievement goals and high-stakes test anxiety in Standard 5 students in Trinidad. In: C. Szymanski & K. Mutua (eds.) *Research on education in Africa, the Caribbean and the Middle East*. Charlotte, NC: Information Age.
- Larkin, K., & **Milford, T. M.** (2018). Mathematical apps – stormy with the weather clearing: Using cluster analysis to enhance app use in mathematics classrooms. In: N. Calder, K. Larkin, & N. Sinclair (eds.) *Using mobile technologies in the learning of mathematics*. Dordrecht, The Netherlands: Springer.
- Pelton, T., **Milford, T. M.**, & Francis Pelton, L. (2018). Developing analog clock mastery by integrating lessons and apps. In: N. Calder, K. Larkin, & N. Sinclair (eds.) *Using mobile technologies in the learning of mathematics*. Dordrecht, The Netherlands: Springer.
- Tippett, C. D., & **Milford, T. M.** (2017). Canada: An overview of secondary science teacher education programs. In: J. Pedersen, T. Isozaki, & T. Hirano (eds.) *Model science teacher preparation programs: An international comparison of what works*. Charlotte, NC: Information Age Publishing.
- Milford, T. M.**, & Tippett, C. D. (2016). Canada. In: B. Vlaardingerbroek & N. Taylor (ds.) *Teacher quality in upper secondary science education*. New York, NY: Palgrave.
- Milford, T. M.** (2014). Canada: British Columbia. In: B. V. Vlaardingerbroek & N. Taylor (eds.) *Issues in secondary science education*. New York, NY: Palgrave MacMillan.
- Yore, L. D., Neill, B. W., Francis Pelton, L., Pelton, T., **Milford, T. M.**, & Anderson, J. O. (2014). Closing the achievement gap from a Canadian perspective. In: J. Clark (ed.) *Closing the achievement gap from an international perspective: Transforming STEM for effective education*. Dordrecht, The Netherlands: Springer.
- Tippett, C. D., & **Milford, T. M.** (2013). Using visual data to investigate influences on preservice teachers' attitudes about scientists. In: K. D. Finson & J. Pedersen (Eds.), *Visual data and their use in science education*. Charlotte, NC: Information Age.
- Carruthers, S., **Milford, T. M.**, Coady, Y., Gibbs, C., Gunion, K., & Stege, U. (2011). Teaching problem solving and computer science in the schools: Concepts and assessments. In L. D. Yore, E. Van der Flier-Keller, D. W. Blades, T. W. Pelton, & D. B. Zandvliet (eds.) *Pacific CRYSTAL centre for science, mathematics, and technology literacy: Lessons learned*. Rotterdam, The Netherlands: Sense.
- Milford, T. M.**, Anderson, J. O., & Luo, J. (2011). Modelling of large-scale PISA assessment data: Science and mathematics literacy. In L. D. Yore, E. Van der Flier-Keller, D. W. Blades, T. W. Pelton, & D. B. Zandvliet (eds.) *Pacific CRYSTAL centre for science, mathematics, and technology literacy: Lessons learned*. Rotterdam, The Netherlands: Sense.
- Van der Flier-Keller, E., Blades, D. V., & **Milford, T. M.** (2011). Promoting earth science teaching and learning: Inquiry-based activities and resources anchoring teacher professional development and education. In L. D. Yore, E. Van der Flier-Keller, D. W.

Blades, T. W. Pelton, & D. B. Zandvliet (eds.) *Pacific CRYSTAL centre for science, mathematics, and technology literacy: Lessons learned*. Rotterdam, The Netherlands: Sense.

Anderson, J. O., **Milford, T. M.**, & Ross, S. P. (2009). Multilevel modeling with HLM: Taking a second look at PISA. In M. C. Shelley II, L. D. Yore, & B. Hand (eds.) *Quality research in literacy and science education: International perspectives and gold standards*. Dordrecht, The Netherlands: Springer.

c. Other Publications

Russell, P., & **Milford, T.** (2019). Barriers in BC libraries: A growing concern. *BCLA Perspectives*, 11(3). <https://bclaconnect.ca/perspectives/2019/09/05/barriers-in-bc-libraries-a-growing-concern/>

Larkin K., & **Milford T.** (2018). Using cluster analysis to enhance student learning when using geometry mathematics apps. In: L. Ball, P. Drijvers, S. Ladel, H. S. Siller, M. Tabach, & C. Vale C. (eds.) *Uses of technology in primary and secondary mathematics education*. ICME-13 Monographs. Springer.
https://link.springer.com/chapter/10.1007%2F978-3-319-76575-4_6.

Pelton, T., **Milford, T.**, & Francis Pelton, L. (2016). Examining the efficacy of a technology enhanced clock-reading instructional protocol. In G. Chamblee & L. Langub (eds.) *Proceedings of Society for Information Technology & Teacher Education International Conference 2016*. Chesapeake, VA: Association for the Advancement of Computing in Education (AACE). <https://www.learntechlib.org/p/172054>.

Gunion, K., **Milford, T. M.**, & Stege, U. (2009, July 6–9). Curing recursion aversion. *Proceedings of the 14th Annual SIGCSE Conference on Innovation and Technology in Computer Science Education*, ITiCSE 2009, Paris, France. doi:10.1145/1595496.1562919

d. Papers, Lectures, Addresses

Scholarly Presentations

Milford, T. M., Tippet, C. D., & Tunnicliffe, S. D. (2025, July 14–18). *Refining the STEM play cycle: Enhancing research applicability* [Conference presentation]. World Organization for Early Childhood Education, Bologna, Italy.

Tippet, C. D., **Milford, T. M.**, & Tunnicliffe, S. D. (2024, Aug 1–3). *Refining the STEM play cycle: Enhancing research applicability* [Conference presentation, withdrawn]. International STEM in Education conference, Calgary, AB.

Milford, T. M., Glickman, V., & Anderson, J. O. (2023, Nov 2 – 4). *Global and Intercultural Skills Program: Intercultural Perceptions Student Index*. [Paper presentation]. Association for Educational Assessment – Europe (AEA), Malta.

Milford, T. M., Tippet, C. D., & Gonzales, R. (2023, Aug 30 – Sept 2). *Opportunities for STEM in an early childhood gardening program: Seeds of STEM?* [Paper presentation]. European Early Childhood Education Research Association (EECERA), Lisbon, Portugal.

Tippet, C. D., **Milford, T. M.**, & Gonzales, R. (2023, Aug 26 – Sept 1). *How do educators engage preschoolers in STEM-related learning experiences?* [Paper

presentation]. European Science Education Research Association (ESERA), Cappadocia, Turkey

Tippett, C. D. & **Milford, T. M.** (2023, July 26-30). *Educator Interactions with Toddlers & Preschoolers to Support STEM Experiences*. [Paper presentation]. Australasian Science Education Research Association (ASERA), Cairns, Australia.

Glickman, V & **Milford, T. M.** (2023, Feb 13). *Data literacy for educators*. Framework in Action Learning Series. [Paper presentation]. BC Ministry of Education and Child Care (MOECC), Victoria, BC

Milford, T. M., Moll, R., Grover, R., & Glickman, V. (2022, May 16-20). *Stakeholders' experiences in British Columbia with online learning due to COVID-19: A survey comparison based on structure*. [Paper presentation]. Canadian Society for the Study of Education (CSSE), Montreal, QC.

Goodnough, K., Azam, S., **Milford, T. M.**, & Tippett, C. D. (2022, March 27-30). *Examining science teacher educators' perspectives of inclusion*. [Paper presentation]. National Association for Research in Science Teaching, Vancouver, BC.

Kuhn, M., Rinehart, R., & **Milford, T.M.** (2022, March 27-30). *The Role of Responsibility Intellectual Virtues in Science Learning*. [Paper presentation]. National Association for Research in Science Teaching, Vancouver, BC.

Milford, T. M., Tippett, C. D., & McDermott, M. A. (2022, Jan 5). *Positioning STEM as an Avenue to Literacy and Numeracy*. [Paper presentation]. Association of Science Teacher Education Conference (ASTE), Greensborough, SC.

Tippett, C. D., Goodnough, K., Azam, S., & **Milford, T. M.** (2022, January 5-8). *Science teacher educators and inclusion: Perspective and practices*. [Paper presentation]. Association for Science Teacher Education, Greenville, SC.

Grover, R., Fend, A., & **Milford, T. M.** (2021, May 30 - June 3). *Online learning experiences of British Columbia secondary school students and parents during the COVID-19 pandemic*. [online paper presentation]. Canadian Society for the Study of Education (CSSE), Edmonton, AB.

Goodnough, K., Azam, S., **Milford, T. M.**, & Tippett, C. D., (2021, May 30 – June 3). *Inclusion: the perspectives and practices of science teacher educators* [online paper presentation]. Canadian Society for the Study of Education (CSSE), Edmonton, AB.

Bradley, H., Tippett, C. D., Yanez Gonzalez, R., & **Milford, T. M.** (2021, May 19). *Supporting early childhood STEM education during the pandemic (and afterwards): Examining parents' and early childhood educators' perceptions of digital resources*. [online paper presentation]. Pandemic Storms, University of Victoria, BC.

Tippett, C. D., Gonzalez, R. Y., & **Milford, T. M.** (2021, Jan 14 - 15). *How do educators engage toddlers in STEM-related learning experiences?* [online paper presentation]. Association of Science Teacher Education Conference (ASTE), Salt Lake City, Utah.

Ross, S., Aquilina, A., Pirraglia, C., Hamza, D., van der Goes, T., **Milford, T.**, Poth, C., Schipper, S. (2021, April 17). *Exploring self-reported goal orientations of learners in a*

family medicine residency program. [online paper presentation]. Canadian Conference on Medical Education, St. John's, Newfoundland.

Ross, S., Aquilina, A., Hamza, D., Kiddell, R., van der Goes, T., **Milford, T.**, Poth, C., & Schipper, S. (2020, Nov). *Self-regulated learning behaviours of residents entering two different family medicine residency programs*. [online paper presentation]. 2020 International Conference on Residency Education, Vancouver, BC.

Ross, S., Aquilina, A., Hamza, D., Kiddell, R., van der Goes, T., & **Milford, T.** (2020, Sept). *Motivation and self-regulated learning in competency-based training programs*. [online paper presentation]. Association for Medical Education in Europe (AMEE), Glasgow, Scotland.

Gonzalez, R. Y., Tippet, C. D., & **Milford, T. M.** (2020, July). *How do educators engage preschool children in STEM-related learning experiences?* Paper proposal submitted for the EARLI Sig 05 2020 Conference, Tel Aviv, Israel. (Conference cancelled)

Goodnough, K., Azam, S., **Milford, T. M.**, & Tippet, C. D. (2020, June 23–26). *Examining the inclusive perspectives and practices of Canadian science teacher educators* [Online paper presentation]. Australasian Science Education Research Association, Wollongong, Australia.

Tippet, C. D., Gonzalez, R. Y., & **Milford, T. M.** (2020, June). *Engaging young children in STEM-related learning experiences: Educator interactions*. Paper submitted to the Australasian Science Education Research Association (ASERA), Wollongong, Australia. (Paper cancelled)

Tippet, C. D., Gonzalez, R. Y., & **Milford, T. M.** (2020, June). *How do educators engage toddlers in STEM-related learning experiences?* Paper proposal submitted for the annual conference of the Canadian Society for the Study of Education (CSSE), London, ON. (Conference cancelled)

Goodnough, K., Azam, S., **Milford, T. M.**, & Tippet, C. D. (2020, June 29 - May 4). *Inclusion: the perspectives and practices of science teacher educators*. Paper proposal submitted for the annual conference of the Canadian Society for the Study of Education (CSSE), London, ON. (Conference cancelled)

Ross, S., Aquilina, A., Hamza, D., Kiddell, R., **Milford, T.**, van der Goes, T., Poth, C., & Schipper, S. (2019, Dec). *Examining self-regulated learning behaviours of incoming PGY1 residents in two Canadian family medicine programs*. Paper presented at the HPE Scholarship Day - University of Alberta. Edmonton, AB.

Milford, T. M., Glickman, V., & Anderson, J. O. (2019, Nov). *Exploratory factor analysis of the 2018 British Columbia Student Learning Survey*. Paper presented at the annual international conference of the Association for Educational Assessment – Europe (AEA), Lisbon, Portugal.

Milford, T. M., Tippet, C. D., Azam, S., & Goodnough, K. (2019, August). *Design and validation of a questionnaire for survey research on science teacher educators' pedagogy and practice in relation to inclusion*. Paper presented at the biannual international conference of the European Science Education Research Association (ESERA), Bologna, Italy.

- Olstad, D. L., Prowse, R. J. L., Tomlin, D., Kirk, S. F., McIsaac, J. D., Mâsse, L. C., Caswell, M. S., Hanning, R. M., **Milford, T.**, Naylor, P. J., & Raine, K. D. (2019, June). *Eat, Play, Live: a RCT embedded within a natural experiment to assess the impact of nutrition policy and capacity building on food environments in recreation and sports facilities*. Paper presented at the annual meeting of the International Society of Behavioral Nutrition and Physical Activity (ISBNPA), Prague, Czech Republic.
- Tippett, C. D., Gonzalez, R. Y., & **Milford, T. M.** (2019, June). *A thematic review of early childhood research published in RISE, 1971-2019*. Paper presented at the Australasian Science Education Research Association (ASERA), Queenstown, New Zealand.
- Bowen, M. & **Milford, T. M.** (2019, June). *Representations of science and scientists in the television sitcom "Friends": Contributions to the public understanding of science*. Paper presented at the Canadian Society for the Study of Education (CSSE), Vancouver, Canada.
- Hadwin, A. F., Bakhtiar, A., Davis, S., Huang, Y., Shama, P., Webster, L., & **Milford, T. M.** (2019, April). *Understanding the risk factors for first year student transition to and success in university*. Paper presented at the annual international conference of the American Educational Research Association (AERA), Toronto, ON.
- Raman, G, **Milford, T. M.**, Powell, J., & Walt, N. (2019, April). *Communicating results: The British Columbia Foundation Skills Assessment results reports*. Paper presented at the CERA session at the annual international conference of the American Educational Research Association (AERA), Toronto, ON.
- Kuhn, M., Rinehart, R., & **Milford, T.M.** (2019, April). *The relationship of epistemic cognition and dialogic feedback in teacher praxis*. Paper presented at the annual international conference of the American Educational Research Association (AERA), Toronto, ON.
- Tippett, C. D., Goodnough, K., Saiqa, A., & **Milford, T. M.** (2019, January). *Exploring inclusive education through the eyes of science teacher educators*. Paper presented at the annual international conference of the Association for Science Teacher Education (ASTE), Savannah, GA.
- Francis Pelton, L., Pelton, T. W., & **Milford, T. M.** (2018, November). *Learning by Observing: Mathematics, Mobile Devices, and Teachers*. Paper presented at the 2018 International Conference of the Korean Society of Mathematics Education, Seoul, Korea.
- Carruthers, S., MacLean, A., **Milford, T. M.**, & Stege, U. (2018, July). Universal (Un)plugged Adapters: Reimagining CS Unplugged for High School and Beyond. Paper presented at the Creative Mathematical Sciences Communication (CMSC), Wellington, New Zealand.
- Carruthers, S., MacLean, A., **Milford, T. M.**, & Stege, U. (2018, July). Creating a Competency Continuum: Assessing Mathematical Literacy in Secondary Education. Paper presented at the Creative Mathematical Sciences Communication (CMSC), Wellington, New Zealand.
- Milford, T. M.**, & Tippett, C. D. (2018, June). *Science education in Canada: A meso-level perspective*. Paper presented at the Australasian Science Education Research Association (ASERA), Surfer's Paradise, Australia.

Bowen, M. & **Milford, T. M.** (2018, May). *Influencing audience perspectives on the conduct and practice of science in non-science sitcoms*. Paper presented at the Canadian Society for the Study of Education (CSSE), Regina, Canada.

Lawrence, B. & **Milford, T. M.** (2018, May). *The interrelation between youth LD and anxiety: The role of family factors and social-emotional influences*. Paper presented at the Canadian Society for the Study of Education (CSSE), Regina, Canada.

Milford, T. M., Walt, N., Baer, M., Powell, J., Calleberg, A., Chapman, A., Grover, R., Luu, K., & Feng, A. (2018, May). *BC's K-12 assessment system - In support of student learning*. Paper presented at the Canadian Society for the Study of Education (CSSE), Regina, Canada.

Bakhtiar, A., Hadwin, A., **Milford, T.**, & Edwards, R. (2017, August). *Measuring collaboration challenges and we-I dimension using a collaborative assessment tool*. Paper presented at the meeting of European Association for Research on Learning and Instruction (EARLI), Tampere, Finland.

Edwards, R.L., Davis, S.K., Hadwin, A.F., & **Milford, T.M.** (2017, August) *Exploring factors in student engagement that predict low versus high academic performance*. Paper presented at the meeting of European Association for Research on Learning and Instruction (EARLI), Tampere, Finland.

Tippett, C. D., & **Milford, T. M.** (2017, August). *Science education in Canada*. Paper presented at the biannual international conference of the European Science Education Research Association (ESERA), Dublin, Ireland.

Tippett, C. D., Pegg, J., Wiseman, D., & **Milford, T. M.** (2017, August). *Canadian science education research: A comparison across dissemination outlets*. Paper presented at the biannual international conference of the European Science Education Research Association (ESERA), Dublin, Ireland.

Pelton, L. F., Pelton, T., & **Milford, T. M.** (2017, June). *Supporting analog clock mastery with lessons integrating app usage*. Paper presented at the International Society for Technology in Education (ISTE), San Antonio, TX.

Davis, S.K., Edwards, R.L., Hadwin, A.F., & **Milford, T. M.** (2017, May). *An exploratory study of a trimodal distribution of student achievement in an undergraduate self-regulated learning course*. Paper presented at the Canadian Society for the Study of Education (CSSE), Toronto, Canada.

Bakhtiar, A., Hadwin, A., Miller, M., & **Milford, T. M.** (2017, May). *Self and team efficacy beliefs as predictors of collaborative task engagement*. Paper presented at the Canadian Society for the Study of Education (CSSE), Toronto, Canada.

Hadwin, A., Bakhtiar, A., Miller, M., Davis, S.K., Edwards, R., & **Milford, T. M.** (2017, May). *Challenges in an online collaboration: Effects of scripting shared task perceptions*. Paper presented at the Canadian Society for the Study of Education (CSSE), Toronto, Canada.

Tippett, C. D., & **Milford, T. M.** (2017, May). *Early childhood cooking activities: Identifying the ingredients of STEM in unexpected places*. Paper presented at the uOttawa Cross-Faculty Symposium on Science Teaching and Learning. Ottawa, ON.

Milford, T. M., & Tippet, C. D. (2017, April). *Identifying the ingredients of STEM in unexpected places: Early childhood cooking activities*. Paper presented at the National Association for Research in science Teaching (NARST), San Antonio, TX.

Milford, T. M. (2016, Nov). *Multilevel modeling of educational data*. Keynote presentation at the 14th Shanghai International Curriculum Forum, Shanghai, China.

McLean, A., Stege, U., & **Milford, T. M.** (2016, October). *Beyond computer science: Teaching computer science in the K-12 grades*. Paper presented at Catalyst the annual BC Science Teachers Conference, Richmond, BC.

Milford, T. M., & Tippet, C. D. (2016, August). *STEM in early childhood education: Findings from a Canadian case study*. Paper presented at the biannual international conference of the East-Asian Association for Science Education (EASE), Tokyo, Japan.

Tippet, C. D., & **Milford, T. M.** (2016, August). *Science teacher preparation in Canada*. Paper presented at the biannual international conference of the East-Asian Association for Science Education (EASE), Tokyo, Japan.

Milford, T. M., & Larkin, K. (2016, July). *Cluster Analysis: A novel methodological approach for determining quality in Geometry Apps*. Paper presented at the 13th International Congress on Mathematical Education (ICME), Hamburg, Germany.

Larkin, K., & **Milford, T. M.** (2016, July). *Student learning of Geometry using iPad apps. Using homogeneity and heterogeneity to enhance geometry education*. Paper presented at the 13th International Congress on Mathematical Education (ICME), Hamburg, Germany.

Tippet, C. D., **Milford, T. M., & Town, K.** (2016, May). *Developing a checklist for the Draw-a-Computer-Scientist Test (DACST): Building on Draw-a-Scientist and Draw-an-Engineer*. Paper presented at the annual international conference of the Canadian Society for the Study of Education (CSSE), Calgary, AB.

Edwards, R. L., McCardle, L., Hadwin, A., **Milford, T. M., & Tippet, C. D.** (2016, May). *A case study exploring the regulatory questions asked by early childhood education teachers to their students*. Paper presented at the annual international conference of the Canadian Society for the Study of Education (CSSE), Calgary, AB.

Pelton, T., **Milford, T. M., & Pelton, L. F.** (2016, May). *Developing analog clock mastery by integrating lessons and apps*. Paper presented at the annual international conference of the Canadian Society for the Study of Education (CSSE), Calgary, AB.

Tippet, C. D., & **Milford, T. M.** (2016, April). *Making the case for STEM in Early Childhood Education*. Paper presented to the annual international conference of the National Association for Research in Science Teaching (NARST), Baltimore, MD.

Pelton, T., **Milford, T. M., & Pelton, L. F.** (2016, March). *Examining the efficacy of a technologically enhanced clock-reading instructional protocol*. Paper presented at the annual Society for Information Technology and Teacher Education (SITE) conference, Savannah, GE.

Tippet, C. D., & **Milford, T. M.** (2015, September). *Investigating STEM (science, technology, engineering, and mathematics) in early childhood education: Collecting data from multiple stakeholders in a pre-kindergarten program*. Paper presented at the biannual

international conference of the European Science Education Research Association (ESERA), Helsinki, Finland.

Milford, T. M., & Tippet, C. D. (2015, June). *What parents think about science, technology, engineering, and mathematics (STEM) in early childhood education: Results of an online questionnaire*. Paper presented at the annual international conference of the Canadian Society for the Study of Education (CSSE), Ottawa, ON.

Olson, J. K., Tippet, C. D., **Milford, T. M.**, Ohana, C., & Clough. M. (2015, April). *Teacher preparation in a North American context*. Paper presented at the annual international conference of the National Association for Research in Science Teaching (NARST), Chicago, IL.

Milford, T. M., Tippet, C. D., Middlemiss, S., & Vermuelen, R. (2015, January). *STEM in early childhood education: Action research in a pre-Kindergarten classroom*. Paper presented at the annual international conference of the Association for Science Teacher Education (ASTE), Portland, OR.

Milford, T. M., Tippet, C., Middlemiss, S., & Vermeulen, R. (2014, July). *What does STEM look like at the Pre-K level?* Paper presented at the 3rd annual Science Technology Engineering and Mathematics (STEM) Conference, Vancouver, BC.

Thomas, S., **Milford, T. M.**, & Anderson, J.O. (2013, November). *A multilevel analysis of reading literacy achievement: comparisons of the Canadian national sample on PISA 2009, and its highest and lowest quartiles*. Paper presented at the 14th annual Association of European Assessment (AEA) Conference, Paris, France.

Vandermeer, J., Beamish, W., Lang, W., & **Milford, T. M.** (2012, October). *Using an iPad-presented social story to increase on-task behaviors of a young child with autism*. Paper presented at the annual Technology Education Research Conference (TERC), Gold Coast, Australia.

Milford, T. M., Hellaby, L., & Strang, R. (2012, July). *Modelling action research for pre-service teachers as part of a primary maths class*. Paper presented at the annual Australian Teacher Education Association (ATEA) Conference, Adelaide, Australia.

Milford, T. M., & Anderson, J. O. (2011, November). *An investigation of international science achievement using the OECD's PISA 2006 data set*. Paper presented at the 37th International Association for Educational Assessment (IAEA) Conference, Manila, Philippines.

Carruthers, S., **Milford, T. M.**, Pelton, T., & Stege, U. (2011, July). *Grasping graphs: A pilot study*. Paper presented at the 16th annual Conference on Innovation and Technology in Computer Science Education (ITCSE), Darmstadt, Germany.

Luo, J., & **Milford, T. M.** (2011, May). *Are school traits related to student academic achievement in Canada?* Paper presented at the annual international conference of the Canadian Society for the Study of Education (CSSE), Fredericton, NB.

Blades, D., & Van Der Flier-Keller, E., & **Milford, T. M.** (2010, May). *The EOS 120/education project: Science and education connections for improving student achievement, attitudes and knowledge in university earth science*. Paper presented at the

international conference of the Canadian Society for the Study of Education (CSSE), Montreal, QE.

Milford, T. M., & Brown, L. (2010, May). *The use of self-assessment for increasing pre-service teacher engagement in the university classroom*. Paper presented at the annual international conference of the Canadian Society for the Study of Education (CSSE), Montreal, QE.

Milford, T. M., Ross, S., & Anderson, J. O. (2010, May). *School traits related to inequity: An analysis of PISA 2003*. Paper presented at the annual international conference of the Canadian Society for the Study of Education (CSSE), Montreal, QE.

Carruthers, S., **Milford, T. M.**, Pelton, T., & Stege, U. (2010, May). *Moving K-7 education into the information age*. Paper presented at the 15th Western Canadian Conference on Computing Education Conference (WCCCEC), Kelowna, BC.

Tippett, C., & **Milford, T. M.** (2010, January). *Pre-service teachers' images of scientists: Do prior science experiences make a difference?* Paper presented at the annual international conference of the Association for Science Teacher Education (ASTE) conference, Sacramento, CA.

Anderson, J. O., **Milford, T. M.**, Jagger, S., & Yore, L. D. (2009, April). *The influence of science education reform in Canada*. Paper presented at the National Association for Research in Science Teaching (NARST) annual conference, Anaheim, CA.

Milford, T. M., & Ross, S. (2009, May). *Examining the relationships between immigrant status and language spoken in the home and student academic achievement*. Paper presented at the annual international conference of the Canadian Society for the Study of Education (CSSE), Ottawa, ON.

Ross, S., & **Milford, T. M.** (2009, May). *Measuring motivation in the PISA 2003 dataset*. Paper presented at the annual international conference of the Canadian Society for the Study of Education (CSSE), Ottawa, ON.

Blades, D., Carolsfield, C., **Milford, T. M.**, Stege, U., Tippett, C. D., Van der Flier-Keller, E., & Williams, J. B. (2008, May). *Partnerships that enrich hands-on experiences: the Pacific CRYSTAL project*. Paper presented at Catalyst the annual BC Science Teachers conference, Kelowna, BC.

Anderson, J.O., Ross, S.P., & **Milford, T. M.** (2007, September). *HLM with the PISA dataset*. Paper presented at the National Pacific Crystal conference, Edmonton, AB.

Anderson, J.O., Ross, S.P., & **Milford, T. M.** (2007, September). *Schools and student achievement: Investigating relationships in science and mathematics education*. CRYSTAL-Alberta Speakers Series 2007-2008, Edmonton, AB.

Milford, T. M., Ram, A., Ross, S., Huang, J., Hsu, J., & Go, M. (2007, June). *Using large scale datasets to enhance and extend knowledge: The value of PISA to educational research*. Paper presented at the annual international conference of the Canadian Society for the Study of Education (CSSE), Saskatoon, SK.

Anderson, J.O., Ross, S., Goh, M., Gu, Z., Hsu, J., Huang, J., Ram, A., & **Milford, T. M.** (2007, February). *Hierarchical linear models of student and school indices of writing*,

numeracy, and reading in Grades 4 and 7. Paper presented at the Hawaii International Education Conference (IEC), Honolulu, HI.

Invited Contributions or Technical Reports

Milford, T. M. (2024). *Advisor on the Future Curriculum Development Project*. Bangkok, Thailand: Institute for the Promotion of Teaching Science and Technology (IPST).

Milford, T. M., Glickman, V., & Hawkey, C. (2024). *Numeracy and Literacy Preparation for Pre-Service Teachers in British Columbia*. Victoria, BC: Ministry of Education and Child Care.

Glickman, V., **Milford, T. M.**, & Anderson, J. O. (2022). *Data Literacy for Pre-Service Teachers Project*. Victoria, BC: Ministry of Education.

Anderson, J. O., Glickman, V. & **Milford, T. M.** (2021). *Intercultural Education Research Project*. Victoria, BC: Ministry of Education.

Milford, T.M. (2020) *Advisor on the Curriculum Development and Implementation Audit*. Toronto, ON: Auditor General of Ontario,
https://www.auditor.on.ca/en/content/annualreports/arreports/en20/20VFM_03curriculum.pdf

Greco, S., & **Milford, T. M.** (2019). *Student reporting policy pilot evaluation*. Victoria, BC: Ministry of Education.

Milford, T. M. (2019). *Validity review on the Graduation Literacy Assessment*. Victoria, BC: Ministry of Education.

Milford, T. M., Anderson, J. O., & Glickman, V. (2019). *Investigating equity within the British Columbia school system: Compare and contrast how the independent and public school systems achieve the objective of enabling students to become educated citizens* (EDUC 19-225). Victoria, BC: Ministry of Education.

Milford, T. M., Anderson, J. O., & Glickman, V. (2019). *Student Satisfaction Survey data validation*. Victoria, BC: Ministry of Education.

Milford, T. M. (2019). *Cut scores and standards setting on the Graduation Literacy Assessment*. Victoria, BC: Ministry of Education.

Milford, T. M. (2019). *Technical review on the redesigned Foundation Skills Assessment*. Victoria, BC: Ministry of Education.

Russel, P., & **Milford, T. M.** (2018). *Professional learning assessment project technical report*. Vancouver, BC: British Columbia Library Association.

Edwards, B, Starckeski, S, & **Milford, T.** (2018). *Private land food production inventory: Technical report*. Victoria, BC: City of Victoria.

Milford, T., Anderson, J. O., Glickman, V., & Jeroski, S. (2018). *Technical review on the Graduation Literacy Assessment*. Victoria, BC: Ministry of Education.

Milford, T. M. (2018). *Technical review on the redesigned Foundation Skills Assessment*. Victoria, BC: Ministry of Education.

- Milford, T. M.** (2018). *Cut scores and standards setting on the redesigned Foundation Skills Assessment*. Victoria, BC: Ministry of Education.
- Anderson, J. O., **Milford, T. M.**, & Glickman, V. (2017). *Student Satisfaction Survey data validation*. Victoria, BC: Ministry of Education.
- Milford, T. M.**, Hawkey, C., Glickman, V., & Anderson, J. O. (2017). *Documentation sources for the evaluation of the British Columbia Learning Modernization Project* (SRFP No. MED-GAD-003). Victoria, BC: Ministry of Education.
- Milford, T. M.** (2017). *Technical review on the redesigned Foundation Skills Assessment*. Victoria, BC: Ministry of Education.
- Anderson, J. O., **Milford, T. M.**, & Glickman, V. (2016). *Student Satisfaction Survey data validation*. Victoria, BC: Ministry of Education.
- Russel, P., & **Milford, T. M.** (2016). *Professional Learning Assessment Project technical report*. Vancouver, BC: British Columbia Library Association.
- Milford, T. M.** (2016). *Working group on the redesign of the Foundation Skills Assessment*. Victoria, BC: Ministry of Education.
- Milford, T. M.** (2014 - 2015). *Working group on assessment policy*. Victoria, BC: St Margaret's School (SMS).
- Francis-Pelton, L., & **Milford, T. M.** (2013). *Proposal for a Minor in Education*. The Victoria, BC: Department of Curriculum and Instruction, University of Victoria.
- Milford, T. M.** (2009). *University of Victoria Middle-School program evaluation*. Victoria, BC: University of Victoria.
- Milford, T. M.** (2008). *Analysis of Professional Identities Survey*. Ottawa, ON: The Canadian Counselling and Psychotherapy Association.
- Papers Read, Posters, Presentations, and Symposium***
- Finson, K., Farland-Smith, D., Mansfield, N., Akerson, V., Tippet, C., **Milford, T. M.** & Cullen, T. (2011, January). *Somewhere over the rainbow: Potential futures for DAST research*. Roundtable at the annual international conference of the Association for Science Teacher Education (ASTE), Minneapolis, MN.
- Milford, T. M.**, & Ross, S. (2010, June). *Home language, immigrant status, socio-economic status, and academic achievement: Exploring relationships using PISA 2006*. Roundtable at the American Educational Research Association (AERA), Denver, CO.
- Goodnough, K., Azam, S., **Milford, T. M.**, & Tippet, C. D. (2023, January 11-14). A mixed methods study of science teacher educators' inclusive perspectives and practices. Association for Science Teacher Education, Poster Presentation, Salt Lake City, UT.
- Tippet, C. D., & **Milford, T. M.** (2023, January 11-14). Development and revision of an observation protocol for early childhood STEM. Association for Science Teacher Education, Poster Presentation, Salt Lake City, UT.
- Blinova, A., & **Milford, T. M.** (2021, May). *Effects of COVID-19 pandemic on program development and delivery of non-formal in-person school programmes: A case study from*

the Royal British Columbia Museum. Canadian Society for the Study of Education (CSSE), Poster Presentation, Edmonton, AB

Bradley, H., Gonzalez, R. Y., Tippet, C. D., & **Milford, T. M.** (2021, May). *Supporting early childhood STEM education during the pandemic (and afterwards): Examining parents' and early childhood educators' perceptions of digital resources*. Canadian Society for the Study of Education (CSSE), Poster Presentation, Edmonton, AB.

Ross, S., Aquilina, A., Hamza, D., Kiddell, R., van der Goes, T., **Milford, T.**, Poth, C., & Schipper, S. (Submitted for April 2020). *Examining self-regulated learning behaviours of incoming PGY1 residents in two Canadian family medicine programs*. Annual Canadian Conference on Medical Education (CCME): Poster Presentation, Vancouver, BC. (Conference cancelled)

Evancio Barker, L., Macoun, S., **Milford, T.**, & Rose, C.A. (2018, August). *Targets, triggers and trauma: Examining bullying behaviours on- and off-line*. American Psychological Association (APA) Convention: Poster Presentation, San Francisco, CA.

Lawrence, B. C., Harrison, G. L., & **Milford, T. M.** (2018, July). *Familial levels of influence for youth with LD and anxiety: Examining monitoring, nurturing, and rejecting parenting behaviors*. International Association for Research in Learning Disabilities (IARLD): Poster Presentation. Ghent, Belgium.

Davis, S. K., Hadwin, A. F., **Milford, T. M.**, MacDonald, S. W. S., & Rostampour, R. (2019, June). *Examining psychological well-being and self-regulated learning in university students*. In A. Hadwin (Chair) _Structured Poster Symposium: Adaptive and Maladaptive Regulation of Learning_ accepted to present at the 2019 Canadian Society for the Study of Education (CSSE) –Canadian Association for Educational Psychology division, Vancouver, B.C

Edwards, R. L., Davis, S.K., Hadwin, A.F., & **Milford, T.M.** (2017, March). *Using contextualized predictive analytics in a self-regulated learning university course to promote student success*. Learning Analytics and Knowledge Conference: Poster Presentation. Vancouver, BC.

Tippet, C. D., & **Milford, T. M.** (2016, June). *Opportunities for STEM learning within an early childhood (EC) cooking program*. European Association for Research on Learning and Instruction (EARLI) Sig5 Learning and Development in Early Childhood: Poster Presentation. Porto, Portugal.

Lawrence, B. C., Harrison, G. L., & **Milford, T. M.** (2016, June). *Associations among family functioning, youth-parent relationships, and symptoms of anxiety in adolescents with learning disabilities*. Canadian Psychological Association (CPA) Annual Conference: Poster Presentation. Victoria, BC.

Tippet, C. D., **Milford, T. M.**, & Town, K. (2015, October). *What do girls aged 3 to 5 think about scientists?* National Science Teacher Education (NSTA) Region Conference: Poster Presentation. Reno, NV.

Lawrence, B. C., Harrison, G. L., & **Milford, T. M.** (2015, July). *The interrelation between youth learning disabilities and anxiety: The role of family factors*. International Academy

for Research in Learning Disabilities (IARLD) Annual Conference: Poster Presentation. Vancouver, BC.

Pelton, T., Francis Pelton, L., & **Milford, T. M.** (2015, May). *Teacher reflections on using iPads and apps to support mathematics education*. Society for Information Technology and Teacher Education (SITE) Annual Meeting: Poster Presentation. Las Vegas, NV.

Paynter, J., Riley, E., **Milford, T. M.**, & Beamish, W. (2013, April). *The double ABCX model of family adaptation in families of children with ASD attending early intervention*. International Meeting for Autism Research (IMFAR) Annual Meeting: Poster Presentation. San Sebastian, Spain.

Blades, D., van der Flier-Keller, E., **Milford, T. M.**, & Alpert, S. (2012, April). *The EOS (Earth and Ocean Sciences) 120/Education project: Improving science teacher education through faculty partnerships*. American Educational Research Association (AERA) Annual Conference: Poster Presentation, Vancouver, BC.

Earle, S., Cooper, R., & **Milford, T. M.** (2008, September). *University discipline choices*. National Pacific Crystal Conference: Poster Presentation, Sherbrooke, QB.

Pelton, T., & **Milford, T. M.** (2008, June). *The creation of a weather concepts inventory (WCI)*. Canadian Society for the Study of Education (CSSE) Annual Conference: Poster Presentation. Vancouver, BC.

Bowen, M., Khan, S., & **Milford, T. M.** (Submitted for May, 2020). *Using the BBC Micro:Bit computer in Science & Mathematics Classrooms*. Workshop proposal submitted to the Canadian Society for the Study of Education (CSSE), London, Canada. (Conference cancelled)

Milford, T. M., Tippet, C. D., & McDermott, M. A. (2018, January). *Language and literacy, multimodality, and STEM*. Workshop presented at the annual international conference of the Association for Science Teacher Education (ASTE), Baltimore, MA.

Tippet, C.D., **Milford, T. M.**, Hobbs, M., & Williams, B. (2017, December). *ASTE sponsored session -- Effective Science Practices in Early Childhood: Incorporating STEM and Addressing NGSS Standards*. National Science Teachers Association (NSTA) Area Conference, New Orleans, LA

Low, K., & **Milford, T. M.** (2017, October). *Curriculum Based Measurement (CBM) for spelling instruction in the upper elementary classroom*. Workshop presented at the annual Inspired/ACSI convention, Surrey, BC.

McDermott, M. A., **Milford, T. M.**, & Tippet, C. D. (2017, January). *Language and literacy, multimodality, and STEM*. Workshop presented at the annual international conference of the Association for Science Teacher Education (ASTE), Des Moines, IA.

Low, K., & **Milford, T. M.** (2016, October). *Curriculum based measurement in the classroom*. Workshop presented at the annual Christian Teachers Convention, Lynden, WA.

Tippet, C. D., & **Milford, T. M.** (2016, January). *Reframing early childhood science activities to address the NGSS and STEM approaches*. Workshop presented at the annual international conference of the Association for Science Teacher Education (ASTE),

Reno, NV.

Tippett, C. D., **Milford, T. M.**, McDermott, M. A., & Yore, L. D. (2016, January). *Language and literacy, multimodality, and STEM*. Workshop presented at the annual international conference of the Association for Science Teacher Education (ASTE), Reno, NV.

Milford, T. M. (2018, October). *Quantitative research*. Invited speaker Ed-D 561a Research Methods, University of Victoria, Victoria, BC.

Milford, T. M. (2018, October). Using the Classroom Observational Protocol (COP) in an ECE classroom. Professional Development Day, St. Margaret's School, Victoria, BC.

Milford, T. M. (2018, February). *Survey research*. Invited speaker to EDCI 681 Research methods, University of Victoria, Victoria, BC.

Milford, T. M. (2018, February). *Research paradigms*. Invited speaker EDCI 581 Research methods, University of Victoria, Victoria, BC.

Milford, T. M. (2018, January). *Quantitative research*. Invited speaker Ed-D 561a Research Methods, University of Victoria, Victoria, BC.

Milford, T. M. (2016, October). *Research paradigms*. Invited speaker Ed-D 660 Professional Seminar, University of Victoria

Milford, T. M. (2016, September). *Writing multiple choice questions*. Invited speaker at the Medical Education Day, Island Medical Program, Faculty of Medicine, University of British Columbia (UBC), Victoria, BC.

Milford, T. M. (2016, August). *Quantitative research*. Invited speaker Ed-D 561a Research Methods, University of Victoria, Victoria, BC.

Russel, P., & **Milford, T. M.** (2016, May). *Developing rapid turn-around library questionnaires*. Invited speaker at the British Columbia Library Association (BCLA) annual conference, Richmond, BC.

Milford, T. M. (2016, May). *Rubrics in educational evaluation*. Invited speaker at the Medical Education Day, Island Medical Program, Faculty of Medicine, University of British Columbia (UBC), Victoria, BC.

Milford, T. M. (2015, November). *The use of quantitative data in educational research*. Invited speaker EDU5190 Introduction to research in education. University of Ottawa.

Milford, T. M. (2015, October). *Curriculum based measures in the elementary classroom*. Invited speaker Ed-D 421 Recognition and Assessment of Learning Needs, University of Victoria, Victoria, BC.

Milford, T. M. (2015, August). *Quantitative research*. Invited speaker Ed-D 561a Research Methods, University of Victoria, Victoria, BC.

Milford, T. M. (2015, June). *Quantitative research*. Invited speaker Teacher Education Summer Institute, University of Victoria, Victoria, BC.

Milford, T. M., & Tippett, C. D. (2015, May). *STEM: Some perspectives*. Invited speaker St. Margaret's School, Victoria, BC.

- Milford, T. M.** (2014, March). *The use of quantitative data in educational research*. Invited speaker EDU5190 Introduction to research in education. University of Ottawa.
- Milford, T. M.** (2014, February). *Experiences in graduate school*. Invited speaker Ed-D 660 Professional Doctoral Seminar. University of Victoria, Victoria, BC.
- Milford, T. M.** (2013, November). *Assessment in the science classroom*. Invited speaker EDCI 767 Methods in Secondary Science Teaching. University of Victoria, Victoria, BC.
- Milford, T. M.** (2013, April). *Quantitative research in education with SPSS*. Invited speaker Griffith Department of Political Science, Griffith University, Brisbane, QLD.
- Milford, T. M.** (2012, September). *Multilevel Linear Modelling with SPSS*. Invited speaker: Quantitative research methods in multi-level modelling. Griffith Social and Behavioural Research College (GSBRC), Griffith University, Brisbane, QLD.
- Milford, T. M.** (2012, August). *Brisbane program pre-departure seminar ~ students bound for study in Canada*. Invited speaker on the academy in Canada and Australia. Canadian High Commission to Australia and Griffith University, Brisbane, QLD.
- Milford, T. M.** (2012, May). *Introduction to research methodologies*. Invited speaker Quantitative research methods in multi-level modelling. Griffith Social and Behavioural Research College (GSBRC), Griffith University, Brisbane, QLD.
- Milford, T. M.** (2011, October). *The approach to using quantitative data in educational research*. Invited speaker Ed-D 561a Research Methods in Education. University of Victoria, Victoria, BC.
- Milford, T. M.** (2010, July). *The use of HLM in modeling large scale educational achievement data*. Invited speaker Summer Program in Data Analysis (SPIDA). York University, Toronto, ON.
- McDonough, G., & **Milford, T. M.** (2010, February). *Assessing student dispositions before it's too late*. Invited speaker The Learning and Teaching Center, University of Victoria, Victoria, BC.
- Milford, T.**, Grover, R., Chu, M., Volante, L., & Miler, T. (2020, June). *The impact of large scale assessment data across multiple Canadian jurisdictions*. Symposium presented for the Canadian Society for the Study of Education Annual Conference, London, ON, Canada. <https://csse-scee.ca/wp-content/uploads/2020/03/CSSE-Program-Draft-Mar-1.pdf> (Conference cancelled)
- Marshall, A., Young, R., Lawrence, B., & **Milford, T.** (2019, October). *Educational and work transitions for vulnerable emerging adults: Challenges, research findings, and strategies for support*. Symposium proposal submitted for the annual conference of the Society for the Study of Emerging Adulthood (SSEA), Toronto, Canada
- Tippett, C., & **Milford, T. M.** (2019, June). *The Current State of Science Education in Canada*. Panel discussion presented at the Canadian Society for the Study of Education (CSSE), Vancouver, Canada.

Professional Activities

Editorial Roles

Co-Editor ~ International Journal of Mathematics Teaching and Learning (IJMTL). 2018 – 2021.

Member ~ Editorial Board Springer Book Series Advancing Inclusive and Special Education in the Asia-Pacific 2025 - 2029

Manuscript Reviews

Alberta Science Education Journal (ASEJ)

April 2017 ~ Using Scientific Research Studies in Teaching STS Decision-making

April 2017 ~ Reframing Coding as “Mathematization” in the K12 Classroom: Views from Teacher Professional Learning

Canadian Journal of Education/Revue canadienne de l'éducation (CJE).

July 2019 ~ Maclean's, NSSE, and the Misclassification of Canadian Universities

Canadian Public Policy/Analyse de politiques

Aug 2019 ~ Want to Improve Math Scores? An Empirical Assessment of Recent Policy Interventions in Canada

Cultural Studies of Science Education (CSSE)

June 2016 ~ Latinas heritage language as a source of resiliency: Impact on academic achievement in STEM fields

Early Years: an international research journal

July 2025 ~ Preschool teachers' beliefs and confidence regarding AR Technology Integrated STEM Education as teaching and learning activities in China

Educational Measurement: Issues and Practices (NCME)

Feb 2016 ~ The impact of using released items from international large-scale assessment on the adequacy of test linking with non-equivalent populations

Exceptionality Education International (IEE)

Feb 2011 ~ Bullying and Victimization among Students in Special Education and General Education Curricula

July 2010 ~ Evaluation of Social and Academic Effects of School-wide Positive Behaviour Support in a Canadian School District

April 2010 ~ UAE Teachers' Awareness & Perceptions of Testing Adaptations

International Journal of Mathematics Teaching and Learning (IJMTL)

May 2018 ~ Manipulatives and Multiplicative Thinking

Apr 2018 ~ Acquiring Math: Connecting Math Learning and Second Language Acquisition

Jan 2018 ~ The Development of Secondary Mathematics Teachers' Pedagogical Identities in the Social Context of Classroom Interactions

Nov 2016 ~ Visualizing the Line of Best Fit.

July 2016 ~ Does Attitude toward Mathematics Teaching Affect Pedagogical Content Knowledge and Teaching Practice Performance?

International Journal in Science and Mathematics Education (IJSME)

June 2025 ~ Future-Oriented Science Education: A Delphi Study on the Views of Policymakers from Four European Countries

Jan 2021 ~ Peer or student? Investigating the authenticity in micro-teaching for science pre-service teacher education.

Dec 2019 ~ Next generation science classrooms: The development of a survey for examining student experiences in science classrooms.

Aug 2019 ~ Facilitating Conceptual Growth of the Mainstreamed Students with Learning Disabilities via a Science Experimental Guidebook: A Case of Physical Events

Dec 2018 ~ An Instructional Design to Teaching Science Concepts to Visually Impaired Students

Sep 2018 ~ The Impact of Inclusive STEM High Schools on Student Outcomes: Longitudinal Evidence from Texas STEM Academies in the USA

January 2018 ~ Using Modeling Ability Analytic Index-TIMSS to Compare Cross-country Students' Performance on Grade 8 Items

Mar 2016 ~ Patterns of Motivational Beliefs in the Science Learning of Total, High, and Low Performing Students: Evidence of Taiwanese TIMSS 2011 Data

Nov 2017 ~ Macao is OECD-rated as an economy of high-performance and high-equity amongst PISA 2015 participating economies: An explanation from an insider perspective

Oct 2015 ~ Academic Motivation, Positive Affect, Instruction, and Chinese Taipei Students' Science Achievement: Findings from TIMSS 2007 Data

June 2015 ~ Effects of toy care design-type project-based learning on achievement, attitude, and creative attitude

May 2015 ~ The portrayal of the Nature of Science in Early Childhood physical science instructional materials

Feb 2015 ~ GreenMech design Contest: Problem-solving, perceived value, and student behavior attitude and intention

Jan 2014 ~ Reliability, validity and factor analysis of the Persian Academic Delay of Gratification Scale

May 2013 ~ Validating proposed learning progressions on force and motion using the Force Concept Inventory: Findings from Singapore secondary schools.

Nov 2012 ~ Modeling relationships among learners, attitudes, self-perceptions and science achievement for 8th grade Saudi students

June 2012 ~ Perceived social relationships and science learning outcomes for Taiwanese 8th graders: structural equation modeling with a complex sampling consideration

Oct 2011 ~ Gender differences in student motivation and self-regulation in science

learning: A multi-group structural equation modeling analysis

Jan 2010 ~ Development of task value instrument for biology as a school subject

International Journal of Whole Schooling (IJWS)

Mar 2015 ~ A factor analytic validation study of the Scale of Teachers' Attitudes Towards Inclusive Classrooms (STATIC)

Apr 2012 ~ Exploring pre-service teachers' perceived teaching-efficacy, attitudes and concerns about inclusive education in Bangladesh

Oct 2011 ~ Inclusive Education Reform in Primary School of Bangladesh: Leadership Challenges and Possible Strategies to Address the Challenges

Jan 2011 ~ Problems Faced by Special Students in Ordinary Schools: A Case of Pakistan

June 2010 ~ Co-Teaching in Urban Secondary U.S. School Districts to Meet the Needs of all Teachers and Learners: Implications for Teacher Education Reform

International Research in Early Childhood Education (IRECE)

June 2016 ~ Preschool children's interaction with ICT

Mathematics Education Research Journal (MERJ)

Mar 2017 ~ Visualization of lines of best fit

Jan 2015 ~ The influence of test mode and visuospatial ability on mathematics assessment

Mar 2013 ~ What can and should we learn from international studies of mathematics achievement

July 2012 ~ Mental calculations within a graph: Operating on functions

Journal of Science Education and Technology (JOST)

Oct 2018 ~ Enhancing digitally simulated science laboratories: A test of pre-laboratory activities with the learning error and formative feedback model

Book Proposal Reviews

Springer

June 2024 ~ Vibrant Matter in Pk-12 STEM: Navigating Real-world Cases and Lesson Plans for Pedagogical Pathways

June 2021 ~ Dilemmas in Science Education: Possible and probable futures

April 2019 ~ Advances in Rasch analysis in the human sciences

June 2018 ~ STEM Education across the learning continuum: Early childhood to senior secondary

Canadian Scholars

Nov 2019 ~ Teaching and Learning Science: Connecting students to the world we share!

Book Reviews

Milford, T. M. (2016, Spring). [Review of the book *Multiple regression and beyond: An introduction to multiple regression and structural equation modeling* (2nd ed.), by T. Z. Keith]. *Journal of Educational Measurement*, 53(2), 248–250.

Milford, T. M. (2015, Winter). [Review of the book, *Handbook of international large-scale assessments: Background, technical issues, and methods of data analysis*, by L. Rutkowski, M. von Davier, & D. Rutkowski (Eds.)]. *Journal of Educational Measurement*, 52(4), 477–479.

Springer

Aug 2019 ~ STEM Education across the learning continuum: Early childhood to senior secondary

Funding Agency Reviews

Icelandic Research Fund

Oct 2023 Reference number: IRF 2410533-051

Monitoring and improving teacher education: Strengthening educational foundations

Social Sciences and Humanities Research Council of Canada (SSHRC).

Jan 2023 Insight Grants ~ Improving Canadian Teachers' Assessment Literacy and Decision-making through Self-directed Professional Development

Social Sciences and Humanities Research Council of Canada (SSHRC).

Jan 2020 Insight Grants ~ Investigating Kenyan Students' Learning Through Environmental Sustainability Strategy for Understanding Science Embedded in Effects of Ubiquitous Local Manufacturing Activities and Products

Social Sciences and Humanities Research Council of Canada (SSHRC).

Jan 2018 Insight Grants ~ Culturally Responsive Pedagogy for Yukon First Nations Learners: A Quantitative Investigation

Tenure and Promotion Reviews

February 2023 ~ Department of Curriculum and Pedagogy, University of British Columbia

August 2021 ~ Okanagan School of Education, University of British Columbia

November 2019 ~ Department of Curriculum and Pedagogy, University of British Columbia

October 2019 ~ Werkland School of Education, University of Calgary

Program Reviews

February 2021 ~ External Review: Vancouver Island University Bachelor of Education and Post Baccalaureate of Education programs

Workshops

Fallahi, S., & **Milford, T. M.** (2024, Feb). Using Non-Generative AI in Academic Research. Faculty of Education. University of Victoria, Victoria, BC.

Milford, T. M. (2019, Oct). *Enhancing collaboration through Hands on Science*. Continuing Studies. University of Victoria, Victoria, BC.

- Milford, T. M.**, Glickman, V., & Anderson, J. O. (2019, April). *Psychometric properties of the 2018 Student Learning Survey*. Ministry of Education, Victoria, BC.
- Hadwin, A., Bakhtiar, A., Davis, S., Edwards, R., Huang, Sharma, P., Webster, E., & **Milford, T. M.** (2018, Aug). *Empowering the UVic community to use technology to teach and learn*. Let's Talk About Teaching 2018. University of Victoria, Victoria, BC.
- Milford, T. M.** (2018, June). *Inquiry in science*. Science Venture. Faculty of Engineering and Computer Science. University of Victoria, Victoria, BC.
- Milford, T. M.** (2017, June). *Rollercoaster Science*. Pacific Christian School (PCS). University of Victoria, Victoria, BC.
- Milford, T. M.** (2017, June). *Inquiry in science*. Science Venture. Faculty of Engineering and Computer Science. University of Victoria, Victoria, BC.
- Kiddell, R., Yestrau, M., Maclean, A., & **Milford, T. M.** (2017, April). *STEM activities for grades 2 to 4 students*. St Margaret's School (SMS), Victoria, BC.
- Milford, T. M.** (2017, Jan). *New and cooperative games*. Teaching English as a Foreign Language (TEFL) Program. University of Victoria, Victoria, BC.
- Milford, T. M.** (2016, June). *Inquiry in science*. Science Venture. Faculty of Engineering and Computer Science. University of Victoria, Victoria, BC.
- Milford, T. M.** (2016, April). *Rollercoaster Science*. Pacific Christian School (PCS). University of Victoria, Victoria, BC.
- Milford, T. M.** (2016, April). *Rollercoaster Science*. EDSA preservice teachers. University of Victoria, Victoria, BC.
- Milford, T. M.** (2015, August). *Program review and wrap-up session*. Teaching English as a Foreign Language (TEFL) Program. University of Victoria, Victoria, BC.
- Milford, T. M.** (2015, May). *Inquiry in science*. Science Venture. Faculty of Engineering and Computer Science. University of Victoria, Victoria, BC.
- Milford, T. M.** (2015, April). *Marking and Grading*. EDSA preservice teachers. University of Victoria, Victoria, BC.
- Milford, T. M.** (2014, March). *Science at the K thru 3 level*. Primary Teachers Association SD61. Victoria, BC.
- Milford, T. M.** (2014, August). *New and cooperative games*. Teaching English as a Foreign Language (TEFL) Program. University of Victoria, Victoria, BC.
- Milford, T. M.** (2013, November). *Encouraging number sense thru number talks*. EDSA preservice teachers. University of Victoria, Victoria, BC.
- Milford, T. M.** (2013, November). *Lipbalm science*. EDSA preservice teachers. University of Victoria, Victoria, BC.
- Milford, T. M.** (2010, October). *Lipbalm science*. EDSA preservice teachers. University of Victoria, Victoria, BC.
- Milford, T. M.** (2010, May). *Education 101*. Workshop for Science Venture. Faculty of Engineering and Computer Science. University of Victoria, Victoria, BC.

Milford, T. M., & Tippet, C. D. (2009, November). *Teaching electricity*. Workshop with ESDA for preservice teachers. University of Victoria, Victoria, BC.

Milford, T. M. (2008-2011, August). *New and cooperative games*. Workshop for foreign summer exchange teachers. Teaching English as a Foreign Language (TEFL) Program. University of Victoria, Victoria, BC.

8. Teaching Duties at the University of Victoria

Courses taught

<u>Year(s)</u>	<u>Course</u>	<u>Hours/Week</u>	<u>Term</u>	<u>No. of Students</u>
2023	EDCI 531	3	Fall	25
	EDCI 598a	NA	Fall	14
2022	ED-D 560	3	Fall	18
2020	EDCI 581/681	3	Spring	12
2019	EDCI 581/681	3	Spring	17
2018	EDCI 598b	NA	Spring	10
	EDCI 591	NA	Spring	21
	ED-D 560	3	Spring	20
	EDCI 591	NA	Summer	22
2017	EDCI 403	3	Spring	33
	EDCI 581	3	Spring	12
	EDCI 598a	NA	Fall	10
	EDCI 591	NA	Fall	21
	ED-D 560	3	Fall	25
2016	EDCI 403	3	Spring	36
	EDCI 581	3	Spring	9
	EDCI 335	NA	Summer	45
	EDCI 591	NA	Summer	25
	ED-D 561A	3	Summer	12
2015	EDCI 403	3	Spring	35
	EDCI 598b	NA	Spring	25
	EDCI 591	NA	Spring	25
	ED-D 560	3	Spring	21
	EDCI 335	3	Fall	33
	EDCI 403	3	Fall	29
2014	EDCI 531	NA	Spring	25
	EDCI 598b	NA	Spring	15
	ED-D 337E	3	Spring	29
	ED-D 420	3	Spring	29
	ED-D 561A	3	Summer	18
	EDCI 598a	NA	Fall	13
	EDCI 591	NA	Fall/Winter	16

	ED-D 421	3	Fall	35
	ED-D 422	3	Fall	37
	ED-D 505	3	Fall	14
2013	ED-D 561A	3	Summer	18
	ED-D 421	3	Fall	27
	ED-D 422	3	Fall	27
2011	EDCI 403	3	Spring	30
	ED-D 407	3	Spring	27
	ED-D 337E	3	Spring	33
	ED-D 401	3	Spring	32
	ED-D 561A	3	Summer	23
	ED-D 561A	3	Summer	17
	ED-D 560	3	Summer	16
	EDCI 767	3	Fall	29
	ED-D 420	3	Fall	24
	ED-D 420	3	Fall	29
2010	EDCI 403	3	Spring	32
	EDCI 403	3	Spring	30
	EDCI 403	3	Spring	29
	ED-D 337E	3	Spring	29
	ED-D 407	3	Summer	34
	ED-D 561A	3	Summer	18
	EDCI 403	3	Fall	30
	EDCI 767	3	Fall	15
	EDCI 584	3	Fall	8
2009	EDCI 403	3	Spring	30
	ED-D 407	3	Spring	29
	ED-D 407	3	Spring	24
	EDCI 767	3	Fall	25
	EDCI 767	3	Fall	16
2008	EDCI 403	3	Spring	33
	ED-D 420	3	Spring	31
	EDCI 767	3	Summer	18
	ED-D 337	3	Summer	17
	ED-D 421	3	Summer	33
	EDCI 767	3	Fall	24
	ED-D 337	3	Fall	30
	ED-D 407	3	Fall	32
2007	EDCI 403	3	Spring	33
	EDCI 403	3	Spring	32

	EDCI 767	3	Summer	18
	ED-D 337	3	Summer	19
	EDCI 403	3	Fall	31
	ED-D 408	3	Fall	33
2006	ED-D 337	3	Summer	33
	ED-D 421	3	Summer	29
	EDCI 403	3	Fall	30
2005	Ed-D 407	3	Fall	90

Directed Studies

<u>Year(s)</u>	<u>Course</u>	<u>Hours/Week</u>	<u>Term</u>	<u>Student Name</u>
2024	EDCI 590	3	Winter	Alexandra Blinova
2023	EDCI 773	3	Fall	Anika Fairholm Jessica Smith Aeryn Bannister Mary Vincent
2021	EDCI 590	3	Summer	Shawn Cure
2020	EDCI 590	3	Summer	Alexa Vilnova
2018	EDCI 590	3	Summer	Rob Kiddell Dana Bell
2018	EDCI 590	3	Spring	Steve Wang
2017	EDCI 590	3	Summer/Fall	Kyung Ho Jung
2016/17	EDCI 590	3	Summer	Andrew MacLean
2016	EDCI 590	Na	Summer	Svetlana Oshkai
	ED-D 520/620	3	Summer	Rebecca Edwards Sarah Davies
	EDCI 581	Na	Spring	Anita Hall
2015/16	EDCI 591	Na	Fall/Spring	Ramzi Darwazeh

Graduate Students***Supervisor***

<u>Name</u>	<u>Date</u>	<u>Role</u>	<u>Details</u>
Karen Efford	July 4, 2025	Co-Supervisor	PhD Defense
Ann Paul	April 17, 2025	Supervisor	MEd Defense
Svetlana Oshkai	Jan 14, 2025	Co-Supervisor	PhD Defense
Kamelia Dousti	April 19 th , 2024	Co-supervisor	PhD Defense
Alexandra Blinova	April 25 th , 2024	Supervisor	MEd Defense
Andrew McLean	Dec 23, 2021	Supervisor	MEd Defense
Florin Timish	April 1, 2021	Co-supervisor	MA Defense

Songtao Wang	Dec 17 th , 2020	Co-supervisor	MA Defense
KyungHo Jung	June 7 th , 2020	Supervisor	MEd Defense
Dana Bell	Dec 9 th , 2019	Supervisor	MA Defense
Goksenin Sen	Sept 13 th , 2017	Co-supervisor	PhD Defense
Jeffery Horncastle	April 20 th , 2015	Supervisor	MEd Defense

Committee Member

<u>Name</u>	<u>Date</u>	<u>Role</u>	<u>Details</u>
Anyia Hall	Nov 22 nd , 2024	Second Member of Committee	PhD Defense (UVic)
Ashley Westphal	April 22 nd , 2024	Second Member of Committee	MEd Defense (EPLS)
Shelby Plotts	Nov 14 th , 2023	Second Member of Committee	PhD Defense (UVic)
Colleen Rudy	Mar 29 th , 2023	Second Member of Committee	PhD Defense (UVic)
Roxana Yanez Gonzalez	Dec 1, 2022	Third Member of Committee	PhD Defense (University of Ottawa)
Mark Pamminger	Nov 14, 2022	External Member of Committee	MA Defense (UVic)
Christopher Speldewinde	Nov 09, 2022	External Member of Committee	PhD Defense (Deakin University)
Fazle Rafi	April 27, 2022	External Member of Committee	MA Defense (UofS)
Angela Mercy Rutakomoziwa	Dec 8, 2021	External Member of Committee	PhD Defense (UBC)
Fizza Haider	Nov 18, 2021	External Member of Committee	MA Defense (UVic)
Jesse Jewel	July 23, 2021	Second Member of Committee	MA Defense
Kirk Savage	June 2, 2021	Fifth Member of Committee	Ed-D Defense (Kansas University)
Sarah Davis	Dec 18 th , 2020	Second Member of Committee	PhD Defense
Veta Chitnev	Oct 30, 2019	Second Member of Committee	PhD Defense
Aishah Bakhtiar	Oct 22, 2019	Third Member of Committee	PhD Defense
Buse N. Bedir	Sept 26 th , 2019	Third Member of Committee	MSc Defense
Christina Perkins	April 1 st , 2019	Third Member Of Committee	MA Defense
Breanna Lawrence	Aug 8 th , 2018	Third Member Of Committee	PhD Defense
Kevin Gianakos	June 21 st , 2018	Second Member of	MA Defense

Rebecca Edwards	April 23 rd , 2018	Committee Second Member Of Committee	MA Defense
Shayla Starcheski	Dec 22 nd , 2017	Second Member Of Committee	MA Defense
Sherry Huang	Sept 11 th , 2017	Second Member Of Committee	MA Defense
Laurissa Evancio Barker	Aug 1 st , 2017	Third member of Committee	MA Defense
Mena Westhaver	Aug 24 th , 2017	Third member of Committee	MEd Defense
Scott Goddard	May 11 th , 2017	Second Member Of Committee	MA Defense
John Robertson	Dec 8 th , 2016	Second Member Of Committee	MA Defense
Stephanie Slater	Sept 13 th , 2016	Second Member Of Committee	MA Defense
Richard McCue	Aug 2 nd , 2016	Third member of Committee	MA Defense
Melissa Hunte	Mar 30 th , 2016	Third member of Committee	MA Defense
Brian Neill	Sept 9 th , 2015	Second Member Of Committee	PhD Defense
Alena Kottova	Aug 27 th , 2015	Third Member of Committee	PhD Defense
Nicole Gardner	April 4 th , 2015	Second member of Committee	MA Defense
Sarah McQuillan	Mar 27 th , 2015	Second member of Committee	MEd Defense
Shelby Rogers	Mar 20 th , 2015	Second member of Committee	MEd Defense
Brianna DeGirolamo	Mar 18 th , 2015	Second member of Committee	MEd Defense
Wade Strass	Dec 13 th , 2014	Second member of Committee	MA Defense

Chair

<u>Name</u>	<u>Date</u>	<u>Role</u>	<u>Details</u>
Trevor McKenzie	Sept 26 th , 2019	Chair	MEd Defense
Marnie Villeneuve	Mar 1 st , 2019	Chair	MEd Defense
Zhouli Xiao	Nov 7 th , 2018	Chair	MSc Defense
Christine Irving	Aug 13 th , 2018	Chair	MEd Defense
Mengying Zhang	Sep 28 th , 2017	Chair	MEd Defense
Keara Rodd	Aug 15 th , 2017	Chair	MSc Defense
Setareh Ghirian	May 11 th , 2017	Chair	MEd Defense

Samantha Grey	Dec 1 st , 2016	Chair	MSc Defense
Xinya Tang	June 2 th , 2016	Chair	MEd Defense
Allison Byrne	Feb 29 th , 2016	Chair	MSc Defense
Maram Alraygi	Dec 16 th , 2015	Chair	MEd Defense
Deanna Reid	Aug 26 th , 2015	Chair	MEd Defense
Lauren Jong	Aug 25 th , 2015	Chair	MEd Defense
Leighan Bell	Aug 24 th , 2015	Chair	MEd Defense
Dong Yue	April 4 th , 2015	Chair	MEd Defense

9. Administrative Activities: Committee and Service Activities

Department/School Committees and Responsibilities

<u>Dates</u>	<u>Details</u>
2024-2025	Co-Chair, Academic Writing Requirement (AWR) Review (UVic) Academic Chair Communities of Practice Working Group (UVic)
2022-2023	Outside Member, Education ADUP Search Committee (UVic)
2019-2020	Outside Member, EPLS Chair Search Committee (UVic)
2019-2021	Climate Solutions Navigator Working Group (UVic)
2018-2019	Department Representative, Review Committee for the Dean of Education (UVic)
2018-Present	Graduate Advisor, Department of Curriculum and Instruction (EDCI)
2018-2019	Member, Faculty of Education Hiring Committee Art Education ~ Limited Term (UVic)
2017-2018	Director, Faculty of Education, Statistical Consulting Service (UVic)
2017-2018	Member, EDCI Departmental Awards Committee (UVic)
2017-2018	Member, EDCI <i>Ad Hoc</i> Policy Committee (UVic)
2017-2018	Member, EDCI ARPT Committee (UVic)
2017-2018	Member, Faculty of Education Hiring Committee Technology Education (UVic)
2017-2018	Outside Member, Hiring Committee, BC Ministry of Education
2016-2017	Program Lead, Post Degree Professional Program (UVic)
2016-2017	Member, Undergraduate Curriculum Committee (UVic)
2016	Member, Faculty of Education Hiring Committee Associate Dean (UVic)
2016	Member, Departmental Salary and Merit Committee (UVic)
2015-2016	External Member, Education Research unit (science eco21), Faculty of Education (University of Ottawa)
2015-2016	Member, Continuing Studies Program Coordinator TEFL Hiring Committee (UVic)
2015-2016	Member, EDCI Hiring Committee Environmental Education Faculty Position (UVic)
2015	Member, EDCI ARPT Committee (UVic)
2015-2016	Member, EDCI Departmental Awards Committee (UVic)
2015-Present	Member, Faculty Research Committee (UVic)
2015-Present	Elementary Science Qualification Reviewer for the Elementary Teaching Programs (UVic)

2014-Present	Member, Centre for Youth and Society (UVic)
2014	Member, EPLS Chair Search Committee (UVic)
2012-2013	Member, Faculty Research Committee (Griffith University)
2012-2013	Member BEd Primary and BEd Secondary Class Profile Development Team (Griffith)
2012-2013	Member, School of Education and Professional Studies Research and HDR Committee (Griffith University)
2009-2010	Member, Faculty Research Committee (UVic)
2009	Graduate Student representative on the Educational Psychology Hiring Committee (UVic)
2007-2010	Member, Building Safety Committee (UVic)
2008	Member, Middle School Planning Committee (UVic)
2006-2010	Mentor position with new instructors within EPLS (UVic)

10. Other

CUPE 4163 UVic Educational Workers Collective Bargaining (Dec 2022- Feb 2023)

UVic L4E Leadership Program (Sept 2021 – May 2022)

[mentor] Doris M Kakuru, PhD Associate Professor & Acting Director,

School of Child and Youth Care, University of Victoria (Sept 2021 – June 2022)

[solicited contribution] Building on the success of *Pandemic Storms: A COVID-19 Research Symposium* (2021, July) <https://test.uvic.ca/education/research/covid-19-research/index.php>

UVic Faculty of Education. (2021, May 19). *Pandemic storms: Pause, reflect, act.* <https://www.youtube.com/watch?v=8WcwHgEsDxE>

[UVic Ed COVID-19 Research Website](#)

UMan Leadership class (2020, June) CHRD-0102-E02 Heads and Chairs: Challenges in Academic Leadership

Mitacs Research Training Award (RTA) 2020 Alexandra Bilnova MA student

[solicited contribution] COVID-19 Emergency Funding (2020, July) <https://test.uvic.ca/education/news/featured/current/covid-research-awards.php>

[solicited contribution] BC Academic Health Science Network (BC AHSN) (2020, July) <https://bcahsn.ca/covid-19-response/covid-19-research-inventory/>

[solicited contribution] Graduate Grade Review (2019, July). Review at request of Chair EPLS.

[solicited contribution] Academic Career Progression Panel Discussion (2019, Jan 22). This session was designed to encourage and develop UVic's future academic leaders.

[solicited contribution] **Milford, T. M.** & Tippet, C. D. (2018, October). Making the case for STEM in early childhood education. Research Snapshot: UVic research partnerships and knowledge mobilization website. Available at <https://www.uvic.ca/research/partner/home/researchsnapshots/tippetmilford/index.php>

Milford, T. M.

[solicited contribution] Smith, L. (2016, June 17). Teachers' STEM-tech fears may be overblown. *Early Learning Review*. Available at <http://www.earlylearningreview.com.au/teachers-stem-tech-fears-may-be-overblown/>

Member, Editorial Board for **International Journal of Mathematics Teaching and Learning** (IJMTL; 2016 – 2018)