

*PETER G. LILJEDAHN*

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**CURRICULUM VITAE**

# ***PETER G. LILJEDAHL***

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## ***Research Interests***

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Instances of creativity, insight, and discovery in mathematics teaching and learning; mathematics and affect; mathematical beliefs; professional growth of teachers; mathematical problem solving; numeracy; instructional design.

## ***Education***

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2000 – 2004	Ph.D.	<i>Curriculum Theory and Implementation: Mathematics Education Focus</i> Faculty of Education Simon Fraser University, Vancouver, BC, Canada
1998 – 2000	M.Sc. Course Work	<i>Secondary Mathematics Education Program</i> Faculty of Education & Department of Mathematics Simon Fraser University, Vancouver, BC, Canada
1993 – 1994	Teaching Certificate	<i>Professional Development Program: Secondary Mathematics</i> Faculty of Education Simon Fraser University, Vancouver, BC, Canada
1985 – 1993	B.Sc.	<i>Mathematics &amp; Computing Science</i> Simon Fraser University, Vancouver, BC, Canada

## ***Academic Positions***

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2010 - present	Associate Professor	Faculty of Education Simon Fraser University, Vancouver, BC, Canada
2006 – 2007	Associate Dean	Faculty of Education Simon Fraser University, Vancouver, BC, Canada
2004 – 2010	Assistant Professor	Faculty of Education Simon Fraser University, Vancouver, BC, Canada
2004 – present	Associate Member	Department of Mathematics Simon Fraser University, Vancouver, BC, Canada
2001 – 2004	Sessional Instructor	Faculty of Education & Department of Mathematics Simon Fraser University, Vancouver, BC, Canada
2001 – 2002	Teaching Assistant/ Tutor Marker	Faculty of Education & Department of Mathematics Simon Fraser University, Vancouver, BC, Canada

***SCHOLARLY ACTIVITY***

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***Research and Development Projects***

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- 2010 – 2013      Principal Investigator  
*Research Students' Experiences of Change in the Mathematics Classroom*  
SSHRC Standard Research Grant (\$79,000 for 3 years)
- 2007 – 2008      Co-investigator  
*Implementing Mathematical Microworlds in a Virtual Immersive Environment*  
Simon Fraser University Institutional Grant – Small SSHRC (\$10,997)
- 2007 – 2009      Co-investigator  
*Mathematical Visualization in Virtual Environments*  
Development grant (for CTEF) from the Research Opportunities Committee (\$5000)
- 2007 – 2009      Co-director  
*David Wheeler Institute for Research in Mathematics Education*  
Seed funding for centre development from the Dean of Education (\$15,000)
- 2006 – 2009      Principal Investigator  
*The professional growth of mathematics teachers: An in-depth look at the centrality of beliefs*  
SSHRC Standard Research Grant (\$115,000 for 3 years)
- 2005 – 2006      Principal Investigator  
*Engaging Mathematical Engagement*  
Simon Fraser University President's Research Grant (\$9800)
- 2005 – 2006      Principal Investigator  
*Enacting Problem Solving Teaching*  
Simon Fraser University Institutional Grant – Small SSHRC (\$3700)

***Articles in Refereed Journals***

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18. Liljedahl, P. (2010). Noticing rapid and profound mathematics teacher change. *Journal of Mathematics Teacher Education*, 13(5), XX-XX.
17. Zazkis, R., Liljedahl, P., & Sinclair, N. (2009). Lesson Plays: Planning Teaching vs. Teaching Planning. *For the Learning of Mathematics*, 29(1), 40-47.
16. Zazkis, R., Liljedahl, P., & Chernoff, E. (2008). The Role of Examples in Forming and Refuting Generalizations. *Zentralblatt für Didaktik der Mathematik*, 40(1), 131-141.
15. Liljedahl, P., Chernoff, E., Zazkis, R. (2007). Interweaving Mathematics and Pedagogy in Task Design: A tale of one task. *Journal of Mathematics Teacher Education*, 10(4-6), 239-249.
14. Liljedahl, P. (2007). Persona-based journaling: Striving for authenticity in the representation of the problem solving process. *International Journal of Science and Mathematics Education*, 5(4), 661-680.
13. Liljedahl, P., Sinclair, N., & Zazkis, R. (2006). Number concepts with number worlds: Thickening understandings. *International Journal of Mathematical Education in Science and Technology*, 37(3), 253-275.
12. Sinclair, N., Liljedahl, P., & Zazkis, R. (2006). A Coloured Window on Pre-Service Teachers' Conceptions of Rational Numbers. *International Journal of Computers for Mathematical Learning*, 11(2), 177-203.

11. Zazkis, R., Liljedahl, P., & Sinclair, N. (2006). Conjecturing in a computer microworld: Zooming in and zooming out. *Focus on Learning Problems in Mathematics*, 28(2), 1-19.
10. Liljedahl, P. & Sriraman, B. (2006). Musings on mathematical creativity. *For The Learning of Mathematics*, 26(1), 20-23.
9. Liljedahl, P. (2005). Mathematical discovery and *affect*: The effect of AHA! experiences on undergraduate mathematics students. *International Journal of Mathematical Education in Science and Technology*, 36(2-3), 219-236.
8. Liljedahl, P. (2004). Reflections on reflections. *International Journal of Computers for Mathematical Learning*, 9(3), 359-369.
7. Liljedahl, P. (2004). Repeating pattern or number pattern: The distinction is blurred. *Focus on Learning Problems in Mathematics*, 26(3), 24-42.
6. Zazkis, R. & Liljedahl, P. (2004). Understanding primes: The role of representation. *Journal for Research in Mathematics Education*, 35(4), 164-186.
5. Sinclair, N., Zazkis, R., & Liljedahl, P. (2004) Number worlds: Visual and experimental access to elementary number theory concepts. *International Journal of Computers for Mathematical Learning*, 8(3), 235-263.
4. Zazkis, R., Liljedahl, P., & Gadowsky, K. (2003). Students' conceptions of function translation: Obstacles, intuitions, and rerouting. *Journal of Mathematical Behavior*, 22(4), 435-448.
3. Liljedahl, P. (2002). Embodied experience of velocity and acceleration: A narrative. *Journal of Mathematical Behavior*, 20(4), 439-445.
2. Zazkis, R. & Liljedahl, P. (2002). Generalization of patterns: The tension between algebraic thinking and algebraic notation. *Educational Studies in Mathematics*, 49(3), 379-402.
1. Zazkis, R. & Liljedahl, P. (2002). Arithmetic sequences as a bridge between conceptual fields. *Canadian Journal of Science, Mathematics and Technology Education*, 2(1), 93-120.

### ***In Progress***

- Liljedahl, P. (under review). The theory of conceptual change as a theory for changing beliefs. *Nordic Studies in Mathematics Education*.
- Liljedahl, P.; Oesterle, S., & Bernèche, C. (under review). Stability of beliefs in mathematics education: A meta-analysis. *The International Journal on Mathematics Education*.
- Preciado, A. & Liljedahl, P. (under review). Three cases of teachers' collaborative design: Perspectives from those involved. *Canadian Journal of Science, Mathematics and Technology Education*.
- Zazkis, R., Liljedahl, P., & Sinclair, N. (under review). Shifts of attention in prospective teachers' images of teaching. *Journal of Mathematics Teacher Education*.
- Liljedahl, P., Rolka, K., Rösken, B. (in progress). Thinking about belief change as conceptual change. *Zentralblatt für Didaktik der Mathematik*.
- Liljedahl, P. & Hewitt, D. (in progress). Teaching as a collection of skills.

### ***Books***

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3. Borwein, P., Liljedahl, P., & Zhai, H. (in press). *Mathematicians on Creativity*. Mathematical Association of America<sup>1</sup>.
2. Liljedahl, P. (2008). *The AHA! Experience: Mathematical Contexts, Pedagogical Implications*. Saarbrücken, Germany: VDM Verlag.
1. Zazkis, R. & Liljedahl, P. (2008). *Teaching Mathematics as Storytelling*. Rotterdam, NL: Sense Publishers.

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<sup>1</sup> This is published in a mathematics venue with a mathematician. As such, convention dictates that authors are listed alphabetically. If it were published in an education venue then the authors would be listed as Liljedahl, P., Borwein, P., & Zhai, H.

***Book Chapters***

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10. Liljedahl, P. (in press). On rapid professional growth: Cases of learning through teaching. In R. Leikin & R. Zazkis (eds.) *Learning Through Teaching Mathematics: Developing Teachers' Knowledge and Expertise in Practice*. New York, NY: Springer.
9. Zazkis, R., Sinclair, N., & Liljedahl, P. (2009) Lesson play – A vehicle for multiple shifts of attention in teaching. In B. Davis & S. Lerman (eds.) *Mathematical Action & Structures of Noticing: Studies inspired by John Mason*. (pp. 165-177). Rotterdam, NL: Sense Publishers.
8. Liljedahl, P. (2009). Imagination. In B. Kerr (ed.). *Encyclopedia of Giftedness, Creativity and Talent*. Sage Publications.
7. Liljedahl, P. (2009). In the words of the creators. In R. Leikin, A. Berman, & B. Koichu (eds.) *Mathematical Creativity and the Education of Gifted Children*. (pp. 51-70). Rotterdam, NL: Sense Publishers.
6. Liljedahl, P. (2008). Teachers' insights into the relationship between beliefs and practice. In J. Maaß & W. Schölglmann (eds.) *Beliefs and Attitudes in Mathematics Education: New Research Results*. (pp. 33-44). Rotterdam, NL: Sense Publishers.
5. Liljedahl, P. (2008). Initial teacher education. In R. Evans & D. Ball (eds.) *ICMI Study Volume 15: Teacher Education*. (pp. 25-33). New York, NY: Springer.
4. Liljedahl, P. (2007). Mathematics and the imagination: thoughts on 'doing' mathematics. In K. Egan, M. Stout, & K. Takaya (eds.) *Teaching and Learning Outside the Box* (pp. 61-74). New York, NY: Teachers College Press.
3. Liljedahl, P., Rolka, K., Rösken, B. (2007). Affecting affect: The re-education of preservice teachers' beliefs about mathematics and mathematics learning and teaching. In M. Strutchens & W. Martin (eds.) *69<sup>TH</sup> NCTM Yearbook – The Learning of Mathematics* (pp. 319-330). Reston, VA: National Council of Teachers of Mathematics.
2. Liljedahl, P. (2006). Learning elementary number theory through a chain of discovery: Preservice teachers' encounters with pentominoes. In R. Zazkis & S. Campbell (eds.) *Number Theory in Mathematics Education: Perspectives and Prospects* (pp. 141-172). Mahwah, NJ: Lawrence Erlbaum Associates, Inc.
1. Zazkis, R. & Liljedahl, P. (2006). On the path to number theory: Repeating patterns as a gateway. In R. Zazkis & S. Campbell (eds.) *Number Theory in Mathematics Education: Perspectives and Prospects* (pp. 99-114). Mahwah, NJ: Lawrence Erlbaum Associates, Inc.

***Edited Conference Proceedings***

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4. Liljedahl, P., Oesterle, S., Bernèche, C. (2009). *Proceedings of the 2008 Annual Meeting of the Canadian Mathematics Education Study Group*. CMESG.
3. Liljedahl, P. (2008). *Proceedings of the 2007 Annual Meeting of the Canadian Mathematics Education Study Group*. CMESG.
2. Liljedahl, P. (2007). *Proceedings of the 2006 Annual Meeting of the Canadian Mathematics Education Study Group*. CMESG.
1. Liljedahl, P. (2006). *Proceedings of the 2005 Annual Meeting of the Canadian Mathematics Education Study Group*. CMESG.

***Book Reviews***

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1. Liljedahl, P. (2005). Strange Curves, Counting Rabbits, and other Mathematical Explorations. *Cruce Mathematicorum with Mathematical Mayhem*, 31(5), 306-307.

***Articles in Refereed Conference Proceedings***

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33. Preciado, A. & Liljedahl, P. (2010). The design braid: Teachers' interactions while designing learning artefacts. *Proceedings of the 34<sup>th</sup> International Conference for Psychology of Mathematics Education*. Belo Horizonte, Brazil.
32. Liljedahl, P., Oesterle, S., & Bernèche, C. (2010). Beliefs as dynamic: Old light through a new window. *Proceedings of the 15<sup>th</sup> international conference on Mathematical Views (MAVI)*. Genoa, Italy.
31. Liljedahl, P. (2009). Rethinking assessment: Report of the CMEF working group. *Proceedings of the 4<sup>th</sup> Canadian Mathematics Education Forum*. Vancouver, Canada.
30. Oestrle, S. & Liljedahl, P. (2009). Who teaches math for teachers? *Proceedings of the 31<sup>st</sup> International Conference for Psychology of Mathematics Education – North American Chapter*. Atlanta, USA.
29. Liljedahl, P. (2009). Rapid change in practice as a window into the professional growth of teachers. *Proceedings of the 33<sup>rd</sup> International Conference for Psychology of Mathematics Education*. Thessaloniki, Greece.
28. Liljedahl, P. (2009). Changing Beliefs as Changing Perspective. In *Proceedings of the 6<sup>th</sup> Congress of the European Society for Research in Mathematics Education*. Lyon, France.
27. Preciado, A. P., & Liljedahl, P. (2008). Changing teachers' identity toward a teacher-learner-researcher approach by collaborative lesson planning in Mexico. *Proceedings of the World Association of Lesson Studies International Conference 2008*. Hong Kong.
26. Liljedahl, P. (2008). Mathematical Creativity: In the Words of the Creators. *Proceedings of the 5<sup>th</sup> International Conference on Creativity in Mathematics and the Education of Gifted Students*. Haifa, Israel.
25. Liljedahl, P. (2007). Reifying Teachers' tacit Knowledge about teaching: closing the gap between theory and practice. *Proceedings of the 29<sup>th</sup> International Conference for Psychology of Mathematics Education – North American Chapter*. Lake Tahoe, USA.
24. Liljedahl, P. (2007). Reification: Explicating Teachers' Tacit Knowledge and Beliefs. *Proceedings of the 13<sup>th</sup> international conference on Mathematical Views (MAVI)*. Gävle, Sweden.
23. Liljedahl, P. (2007). Teachers' Learning Reified: The Professional Growth of Inservice Teachers Through Numeracy Task Design. *Research Forum - Proceedings of the 31<sup>st</sup> International Conference for Psychology of Mathematics Education*. Seoul, South Korea.
22. Rolka, K., Rösken, B., Liljedahl, P. (2007). The Role of *Cognitive Conflict* in Belief Changes. *Proceedings of the 31<sup>st</sup> International Conference for Psychology of Mathematics Education*. Seoul, South Korea.
21. Hannula, M., Kaasila, R., Liljedahl, P., & Rösken, B. (2007). Researching Relief of Mathematics Anxiety Among Preservice Elementary School Teachers. *Research Forum - Proceedings of the 31<sup>st</sup> International Conference for Psychology of Mathematics Education*. Seoul, South Korea.
20. Liljedahl, P., Rolka, K., & Rösken, B. (2007). Thinking About Belief Change as Conceptual Change. In *Proceedings of the 5<sup>th</sup> Congress of the European Society for Research in Mathematics Education*. Larnaca, Cyprus.
19. Liljedahl, P., Rösken, B., & Rolka, K. (2006). Analyzing the changing mathematical beliefs of preservice elementary school teachers. *Proceedings of the 12<sup>th</sup> international conference on Mathematical Views (MAVI)*. Inari, Finland.
18. Liljedahl, P. (2006). Persona-based journaling: Aligning the product with the process. *Proceedings of the 30<sup>th</sup> International Conference for Psychology of Mathematics Education*. Prague, Czech Republic.
17. Rolka, K., Rösken, B., Liljedahl, P. (2006). Challenging the mathematical beliefs of preservice elementary school teachers. *Proceedings of the 30<sup>th</sup> International Conference for Psychology of Mathematics Education*. Prague, Czech Republic.

16. Liljedahl, P., Rösken, B., & Rolka, K. (2006). Documenting changes in pre-service elementary school teachers' beliefs: Attending to different aspects. *Proceedings of the 28<sup>th</sup> International Conference for Psychology of Mathematics Education – North American Chapter*. Merida, Mexico.
15. Rösken, B., Rolka, K., & Liljedahl, P. (2006). Veränderung Mathematischer Beliefs - Dokumentation in Lerntagebüchern. In H.-W. Henn (Hrsg.) *Beiträge zum Mathematikunterricht 2006. Vorträge auf der 40. Tagung für Didaktik der Mathematik*. Osnabrück, Germany. Hildesheim & Berlin: Franzbecker.
14. Liljedahl, P. (2005). Sustained engagement: Preservice teachers' experience with a chain of discovery. In M. Bosch (ed.) *Proceedings of the 4<sup>th</sup> Congress of the European Society for Research in Mathematics Education*. Sant Feliu de Guíxols, Spain
13. Liljedahl, P. (2005). Re-educating preservice teachers of mathematics: Attention to the affective domain. *Proceedings of the 27<sup>th</sup> International Conference for Psychology of Mathematics Education – North American Chapter*. Roanoke, Virginia.
12. Liljedahl, P. (2004). Mathematical discovery: Hadamard Resurrected. In M. J. Høines & A. B. Fugelstad (eds.) *Proceedings of the 28<sup>th</sup> International Conference for Psychology of Mathematics Education*. Bergen, Norway.
11. Liljedahl, P. (2004). AHA!: The effect and affect of mathematical discovery on undergraduate mathematics students. *Proceedings of the 10<sup>th</sup> International Congress on Mathematics Education*. Copenhagen, Denmark.
10. Liljedahl, P. (2004). Improving problem-solving Journals: the mathematician, the narrator, and the participant. *Proceedings of the 26<sup>th</sup> International Conference for Psychology of Mathematics Education – North American Chapter*. Toronto, Ontario.
9. Gholamazad, S., Liljedahl, P., & Zazkis, R. (2004). What Counts as Proof? Investigation of Preservice Elementary Teachers' Evaluation of Presented 'Proofs'. *Proceedings of the 26<sup>th</sup> International Conference for Psychology of Mathematics Education – North American Chapter*. Toronto, Ontario.
8. Zazkis, R., Liljedahl, P. & Gadowsky, K. (2003). Translation of a function: Coping with perceived inconsistency. In N. A. Pateman, B. J. Dougherty, & J. Zilliox (eds.) *Proceedings of the 27<sup>th</sup> International Conference for Psychology of Mathematics Education*. Honolulu, Hawaii.
7. Gholamazad, S., Liljedahl, P., & Zazkis, R. (2003). One line proof: What can go wrong? In N. A. Pateman, B. J. Dougherty, & J. Zilliox (eds.) *Proceedings of the 27<sup>th</sup> International Conference for Psychology of Mathematics Education*. Honolulu, Hawaii.
6. Liljedahl, P. (2002). The 'AHA moment': Students insights in learning mathematics. In D. S. Mewborn, P. Sztajn, D. Y. White, H. G. Wiegel, R. L. Bryant, & K. Nooney (eds.) *Proceedings of the 24<sup>th</sup> International Conference for Psychology of Mathematics Education – North American Chapter*. Athens, Georgia.
5. Liljedahl, P. (2002). Exploring the relationship between similar solution strategies and analogical reasoning. In A. D. Cockburn & E. Nardi (eds.) *Proceedings of the 26<sup>th</sup> International Conference for Psychology of Mathematics Education*. Norwich, United Kingdom.
4. Zazkis, R. & Liljedahl, P. (2002). Repeating patterns as a gateway. In A. D. Cockburn & E. Nardi (eds.) *Proceedings of the 26<sup>th</sup> International Conference for Psychology of Mathematics Education*. Norwich, United Kingdom.
3. Liljedahl, P. (2001). Non-analogical reasoning in an analogous situation of repeating patterns. In R. Speiser, C. A. Maher, & C. N. Walters (eds.) *Proceedings of the 23<sup>rd</sup> International Conference for Psychology of Mathematics Education – North American Chapter*. Snowbird, Utah.
2. Liljedahl, P. & Zazkis, R. (2001). Analogy in the exploration of repeating patterns. In M. van den Heuvel-Panhuizen (ed.) *Proceedings of the 25<sup>th</sup> International Conference for Psychology of Mathematics Education*. Utrecht, Netherlands.
1. Zazkis, R. & Liljedahl, P. (2001). Exploring multiplicative and additive structure of arithmetic sequences. In M. van den Heuvel-Panhuizen (ed.) *Proceedings of the 25<sup>th</sup> International Conference for Psychology of Mathematics Education*. Utrecht, Netherlands.

***Articles in Non-Refereed Venues***

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11. Liljedahl, P. (2010). The four purposes of assessment. *Vector*, 2010(2), 4-12.
10. Cameron, M., Liljedahl, P., Gourdeau, F., Whiteley, W., & Glanfield, F. (2009). Rupture and coherence in advocacy in public policy. In P. Liljedahl, S. Oesterle, & C. Bernèche (eds.) *Proceedings of the Canadian Mathematics Education Study Group*. Sherbrooke, Quebec.
9. Liljedahl, P. (2008). The Pea and the Sun book review. *BCAMT Newsletter*, March 2008, p. 3.
8. Taylor, P., Hagen, P., Liljedahl, P., & Moshe, L. (2007). Does a math education PhD program belong in a math department? In P. Liljedahl (ed.) *Proceedings of the Canadian Mathematics Education Study Group*. Calgary, Alberta.
7. Liljedahl, P. (2006). Basic facts needed for debate about the basics. *CMESG Newsletter* 23(1), p. 4.
6. Liljedahl, P. (2004). The AHA! Experience: Mathematical contexts, pedagogical implications. In E. Simmt & B. Davies (eds.) *Proceedings of the Canadian Mathematics Education Study Group*. Quebec City, Quebec.
5. Jarvis, D., Liang, H., Liljedahl, P., Sedig, K., Sinclair, M., Sinclair, N., & Smith, G. (2004). Design in Online Mathematical Investigations. In G. Gadanidis (ed.) *Proceedings of Online Investigation as Narrative Experience* (pp. 65-73). London, Ontario.
4. Liljedahl, P. (2003). Mathematics as a human activity. In G. Gadanidis, C. Hoogland, & K. Sedig (eds.) *Mathematics as Story: Proceedings of Mathematics as Story Symposium*. London, Ontario.
3. Liljedahl, P. (2003). Mathematics, creativity, and the psychology of invention. In E. Simmt & B. Davies (eds.) *Proceedings of the Canadian Mathematics Education Study Group*. Kingston, Ontario.
2. Liljedahl, P. (2003). Re-examining reflection by re-defining reflection. *Vector*, 2003(1), 31-38.
1. Liljedahl, P. (2001). AHA! A discussion of those magical moments. In E. Simmt & B. Davies (eds.) *Proceedings of the Canadian Mathematics Education Study Group*. Edmonton, Alberta.

***Invited Academic Presentations***

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16. Stability as Dynamic – Beliefs in Motion  
Workshop on Mathematical Beliefs (WoMB)  
Umeå Mathematics Education Research Centre – Umeå University, November 2009
15. Rethinking Assessment – working group leader  
*Canadian Mathematics Education Forum*  
SFU Downtown, May 2009
14. Mathematics for Teaching  
*Bridging from Mathematics to Mathematics Education*  
York University, June 2009.
13. In the Words of the Creators  
*Stockholm University Colloquium*  
Stockholm, September 2008.
12. Rupture and Coherence in Advocacy in Public Policy – panel discussion (panelist)  
Canadian Mathematics Education Study Group  
Sherbrooke, May 2008.
11. Mathematics Education in Mathematics Departments – panel discussion (panelist)  
*Canadian Mathematics Society – Summer Meeting*  
Calgary, June 2006.
10. Numeracy Tasks: Putting Mathematical Understanding to the Test  
*Changing the Culture Conference 2004 – Pacific Institute for the Mathematical Sciences*.  
SFU Harbour Centre, Vancouver, April 2006.
9. Mathematics for Liberal Arts Students.

- Canadian Mathematics Society – Winter Meeting*  
Victoria, December 2005.
8. The Curriculum is Broken  
*Changing the Culture Conference 2004 – Pacific Institute for the Mathematical Sciences.*  
SFU Harbour Centre, Vancouver, April 2004.
  7. What Can Mathematicians Tell Us About Learning Mathematics  
*Canadian Mathematics Society – Winter Meeting*  
Vancouver, December 2003.
  6. School Mathematics Curriculum: Is there any hope left for "Less is More"? – panel discussion (chair)  
*Canadian Mathematics Society – Winter Meeting*  
Vancouver, December 2003.
  5. Problem Solving as a Vehicle and Goal  
*Numeracy and Beyond Conference – Pacific Institute for the Mathematical Sciences.*  
UBC, Vancouver, July 2003.
  4. Hollywood Perceptions of Mathematics: Cultural Truth or Mathematical Fiction? (with Rina Zazkis)  
*Changing the Culture Conference 2003 – Pacific Institute for the Mathematical Sciences.*  
SFU Harbour Centre, Vancouver, May 2003.
  3. Roots and Routes to Algebra  
*Changing the Culture Conference 2003 – Pacific Institute for the Mathematical Sciences.*  
SFU Harbour Centre, Vancouver, May 2003.
  2. What Mathematical Activity is About: Snapshots From Real Life and Research (with Rina Zazkis)  
*Faculty Colloquium.*  
SFU – Faculty of Education. September 2002.
  1. Truth and Fiction in Teaching Mathematics – panel discussion  
*Changing the Culture Conference 2001 – Pacific Institute for the Mathematical Sciences.*  
SFU Harbour Centre, Vancouver, May 2001.

### **Academic Conference Presentations**

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37. Preparing for Teaching via Playwriting.  
*Research pre-session of the Annual meeting of the National Council of Teachers of Mathematics,*  
San Diego, USA, April 2010.
36. Stability of Beliefs  
*Workshop on Mathematical Beliefs*  
Umeå, Sweden, October 2010.
35. Beliefs as Dynamic: Old Light Through a New Window.  
*15<sup>th</sup> International Conference on Mathematical Views (MAVT).*  
Genoa, Italy, September 2009.
34. Rethinking Assessment – working group.  
*4<sup>th</sup> Canadian Mathematics Education Forum*  
Vancouver, Canada, April 2009.
33. Changing Beliefs as Changing Perspectives  
*6<sup>th</sup> Congress of the European Society for Research in Mathematics Education.*  
Lyon, France, February 2009.
32. Rupture and Coherence in Advocacy in Public Policy – panel discussion.  
*32<sup>nd</sup> Meeting of the Canadian Mathematics Education Study Group.*  
Sherbrooke, Canada, May 2008.
31. Teachers' Insights into the Relationship between Beliefs and Practice.  
*14<sup>th</sup> International Conference on Mathematical Views (MAVT).*  
St. Wolfgang, Austria, May 2008.
30. Mathematical Creativity: In the Words of the Creators.

- 5<sup>th</sup> International Conference on Creativity in Mathematics and the Education of Gifted Students.*  
Haifa, Israel, February 2008.
29. Reifying Teachers' Tacit Knowledge about Teaching: Closing the Gap Between Theory and Practice.  
*29<sup>th</sup> International Conference for Psychology of Mathematics Education – North American Chapter.*  
Lake Tahoe, USA, October 2007.
28. Reification: Explicating Teachers' Tacit Knowledge and Beliefs  
*13<sup>th</sup> International Conference on Mathematical Views (MAVI).*  
Gävle, Sweden, June 2007.
27. Thinking About Belief Change as Conceptual Change.  
(with Bettina Rösken)  
*5<sup>th</sup> Congress of the European Society for Research in Mathematics Education.*  
Larnaca, Cyprus, February 2007.
26. Documenting Changes in Pre-service Elementary School Teachers' Beliefs: Attending to Different Aspects (with Katrin Rolka and Bettina Rösken).  
*28<sup>th</sup> International Conference for Psychology of Mathematics Education – North American Chapter.* Merida, Mexico, November 2006.
25. Persona-Based Journaling: Aligning the Product with the Process.  
*30<sup>th</sup> International Conference for Psychology of Mathematics Education.*  
Prague, Czech Republic, July 2006.
24. Challenging the Mathematical Beliefs of Preservice Elementary School Teachers.  
(with Katrin Rolka and Bettina Rösken)  
*30<sup>th</sup> International Conference for Psychology of Mathematics Education.*  
Prague, Czech Republic, July 2006.
23. Does a math education PhD program belong in a math department? – panel discussion  
*30<sup>th</sup> Meeting of the Canadian Mathematics Education Study Group.*  
Calgary, Canada, May 2006.
22. Analyzing the Changing Mathematical Beliefs of Preservice Elementary School Teachers.  
(with Bettina Rösken)  
*12<sup>th</sup> International Conference on Mathematical Views (MAVI).*  
Inari, Finland, May 2006.
21. Creating Numeracy Assessments: Task Development or Professional Development  
(with Dana Brown)  
*Teacher Development: The Key to Education in the 21<sup>st</sup> Century.*  
Vancouver, British Columbia, March 2006.
20. Re-educating Preservice Teachers of Mathematics: Attention to the affective domain.  
*27<sup>th</sup> International Conference for Psychology of Mathematics Education – North American Chapter.*  
Roanoke, Virginia, October 2005.
19. Changing Beliefs, Changing Intentions of Practices: The Re-Education of Preservice Teachers of Mathematics.  
*15<sup>th</sup> Study of the International Commission on Mathematics Instruction.*  
Aguas de Lindoia, Brazil, May 2005.
18. Sustained Engagement: Preservice Teachers' Experience with a Chain of Discovery.  
*4<sup>th</sup> Congress of the European Society for Research in Mathematics Education.*  
Sant Feliu de Guixols, Spain, February 2005
17. Capturing Students' *AHA!* Experiences: An Improved Form of Journaling.  
*26<sup>th</sup> International Conference for Psychology of Mathematics Education – North American Chapter.* Toronto, Ontario, October 2004.
16. Mathematical Discovery: Hadamard Resurrected  
*28<sup>th</sup> Conference of the International Group for the Psychology of Mathematics Education.*  
Bergen, Norway, July 2004.

15. AHA!: The Effect and Affect of Mathematical Discovery on Undergraduate Mathematics Students  
*10<sup>th</sup> International Congress on Mathematics Education*  
 Copenhagen, Denmark, July 2004.
14. The AHA! Experience: Mathematical contexts, pedagogical implications.  
*Canadian Mathematics Education Study Group.*  
 Quebec City, Quebec, May 2004.
13. Computer Microworlds: *Thickening* Students' Mathematical Experiences  
*Research in Undergraduate Mathematics Education Conference*  
 Phoenix, Arizona, October, 2003.
12. Aquarians, Chaos Theory, and Good Teaching: A Dialogue on Monological Analogs  
*Education Without Borders Symposium.*  
 SFU – Faculty of Education. October 2003.
11. What Makes a Problem Good?  
*Annual Meeting of the Canadian Mathematics Education Study Group.*  
*Acadia University, Wolfville, Nova Scotia, May 2003.*
10. The 'AHA Moment': Students Insights in Learning Mathematics.  
*24<sup>th</sup> Conference of the International Group for the Psychology of Mathematics Education – North American Chapter.*  
 Athens, Georgia, October 2002.
9. Mathematics, Creativity, and the Psychology of Invention.  
*Annual Meeting of the Canadian Mathematics Education Study Group.*  
*Queens University, Kingston, Ontario, May 2002.*
8. Exploring the Relationship Between Similar Solution Strategies and Analogical Reasoning.  
*26<sup>th</sup> Conference of the International Group for the Psychology of Mathematics Education.*  
 Norwich, United Kingdom, July 2002.
7. Mathematicians' Views on Mathematical Creativity – discussion group.  
*26<sup>th</sup> Conference of the International Group for the Psychology of Mathematics Education.*  
 Norwich, United Kingdom, July 2002.
6. Repeating Patterns as a Gateway – research forum  
 (with Rina Zazkis)  
*26<sup>th</sup> International Conference for Psychology of Mathematics Education.*  
 Norwich, United Kingdom, July 2002.
5. Non-Analogical Reasoning in an Analogous Situation of Repeating Patterns  
*23<sup>rd</sup> Conference of the International Group for the Psychology of Mathematics Education – North American Chapter.* Snowbird, Utah, October 2001
4. Analogy in the Exploration of Repeating Patterns  
*25<sup>th</sup> Conference of the International Group for the Psychology of Mathematics Education.*  
 Utrecht, Netherlands, July 2001.
3. AHA! A Discussion of those Magical Moments  
*Annual Meeting of the Canadian Mathematics Education Study Group.*  
 University of Alberta, Edmonton, Alberta, May 2001.
2. Arithmetic Sequences: Attending to Differences and Similarities  
 (with Rina Zazkis)  
*Annual Meeting of American Educational Research Association.*  
 Seattle, Washington, April 2001.
1. Arithmetic Sequence as a Bridge Between Conceptual Fields  
 (with Rina Zazkis)  
*Fourth Annual Conference on Research in Undergraduate Mathematics Education.*  
 Chicago, Illinois, September 2000.

***Invited Professional Conference Presentations***

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7. The Mirror that is Our Classroom  
*Links to Learning*  
Penticton, August 2010
6. Learning Styles: Nature or Nurture  
*Annual meeting of the British Columbia Committee on the Undergraduate Program in Mathematics*  
Burnaby, May 2010
5. Student Behaviour as Sensible Reflections of our Teaching  
*Annual conference of the Saskatchewan Mathematics Teacher' Society*  
Saskatoon, May 2010
4. The Four Purposes of Assessment  
*BCAMT Interior Mathematics Conference*  
Kelowna, February 2010
3. Students as Sensible  
*Northwest Mathematics Conference*  
Whistler, October 2009
2. Learning and Teaching Mathematics  
*Adult Basic Education Meeting – BC Association of College Mathematics*  
Richmond, BC, March 2007
1. Problem Solving: What George Polya Neglected to Tell Us  
*Ontario Association of Mathematics Educators Conference*  
North York, On, May 2005.

***Selection of Professional Conference Presentations***

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14. Four Purposes of Assessment  
*Okanagan Skaha School District – Links to Learning*  
Penticton, September 2010.
13. Building a Culture of Thinking  
*Okanagan Skaha School District – Links to Learning*  
Penticton, September 2010.
12. The Dark Capacities  
*Thinking 101*  
Grand Prairie, August 2010
11. Number Shapes  
*SFU Math Camp*  
Burnaby, July 2010
10. Teaching to the New 10C Curriculum  
*Alberta Consortium of Mathematics Consultants*  
Edmonton, June 2010
9. Numeracy Tasks for Grades 7-9  
*Annual conference of the Saskatchewan Mathematics Teacher' Society*  
Saskatoon, May 2010
8. Numeracy Tasks for Grades 4-6  
*Annual conference of the Saskatchewan Mathematics Teacher' Society*  
Saskatoon, May 2010
7. Building a Culture of Thinking  
*Alberta Consortium of Mathematics Consultants*  
Webinar Series, April – May, 2010

6. Doing Mathematics  
*Alberta Consortium of Mathematics Consultants*  
Calgary, January 2010
5. Assessment for a Changing Mathematics  
*Okanagan Skaha School District*  
Penticton, September 2009.
4. Engaging Students in Mathematics  
*Okanagan Skaha School District*  
Penticton, September 2009.
3. Elementary Numeracy Tasks  
*British Columbia Association of Mathematics Teachers Conference*  
Vancouver, October 2008.
2. Interesting Mathematics Problems  
*British Columbia Association of Mathematics Teachers Conference*  
Vancouver, October 2008.
1. Seeing Mathematics Through Students' Eyes  
*British Columbia Association of Mathematics Teachers – New Teachers' Conference.*  
Burnaby, BC, February 2003.

***Awards, Scholarships, and Accolades***

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|-------------|---|
| 2010        | Excellence in Teaching Award<br>Simon Fraser University, Vancouver, BC, Canada  |
| 2005        | Top Social Sciences Ph.D. Thesis at the University<br>Simon Fraser University, Vancouver, BC, Canada  |
| 2005        | Top Ph.D. Thesis in the Faculty<br>Faculty of Education<br>Simon Fraser University, Vancouver, BC, Canada   |
| 2004        | Governor General's Gold Medal<br>Awarded to the top graduate student at the University<br>Simon Fraser University, Vancouver, BC, Canada                          |
| 2004        | Convocation Address (valedictorian)<br>Faculties of Education and Science<br>Simon Fraser University, Vancouver, BC, Canada                                       |
| 2003 – 2004 | SSHRC Doctoral Fellowship (\$17,200)<br>Awarded to graduate student enrolled in a Canadian University<br>Social Science and Humanities Research Council of Canada |
| 2002 – 2004 | Rotary Club of Burnaby Scholarship (3 × \$1000)<br>Awarded to graduate student in Faculty of Education,<br>Simon Fraser University, Vancouver, BC, Canada         |
| 2003        | Lis Welch Scholarship (\$2863)<br>Awarded to graduate student in Faculty of Education,<br>Simon Fraser University, Vancouver, BC, Canada                          |

- 2000 – 2003 Graduate Fellowship (4 × \$5000)  
Awarded to graduate student in Faculty of Education,  
Simon Fraser University, Vancouver, BC, Canada
- 2001 – 2002 Faculty of Education Research Fellowship (\$12,000)  
Awarded to graduate student in Faculty of Education,  
Simon Fraser University, Vancouver, BC, Canada

***Media Exposure***

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- March 2010 SFU News – *2009 Teaching Excellence Awards*
- March 10, 2009 Vancouver Sun – *Newer Math: By the Numbers*
- May 27, 2004 SFU News – *Governor General's Gold Medal*
- May 15, 2004 COMET Online – *Discovering Where Light Bulb Flashes*
- April 1, 2004 SFU News – *Discovering Where Light Bulb Flashes*
- Nov, 2003 Aq: The Magazine of SFU – *The 'AHA!' Experience*
- July 7, 2003 CBC Radio Interview – *Probing the World's Great Math Minds*
- June 26, 2003 SFU News – *Probing the World's Great Math Minds*

***Scholarly and Professional Affiliations***

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- 2004 – present National Council of Teacher of Mathematics (NCTM)
- 2005 – present European Researchers of Mathematics Education (ERME)
- 2001 – present Canadian Mathematics Education Study Group (CMESG)
- 2001 – present The International Group for the Psychology of Mathematics Education (PME)
- 2001 – present The International Group for the Psychology of Mathematics Education – North American Chapter (PME-NA)
- 1994 – present British Columbia Association of Mathematics Teachers (BCAMT)
- 1994 – present British Columbia College of Teachers (BCCT)
- 2004 – 2006 Canadian Mathematics Society (CMS)
- 2000 – 2004 Research in Undergraduate Mathematics Education (RUME)

## ***TEACHING and SUPERVISION***

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### ***University Courses Taught***

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MATH 190	Principles of Mathematics for Teachers
EDUC 212	Mathematical Experience II: Shape and Space
EDUC 313	Numeracy and Society
EDUC 411	Investigations in Mathematics for Secondary School Teachers
EDUC 415	Designs for Learning: Secondary Mathematics
EDUC 475	Designs for Learning: Elementary Mathematics
EDUC 475DE	Designs for Learning: Elementary Mathematics – distance education
EDUC 811	Fieldwork I
EDUC 816	Developing Educational Programs and Practices for Diverse Educational Settings
EDUC 823	Curriculum and Instruction in an Individual Teaching Specialty (Mathematics Education)
EDUC 847	Teaching and Learning Mathematics
EDUC 946	Doctoral Seminar in Mathematics Education

### ***Graduate Student Supervision***

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Dan Kamin M.Sc. (2010-II)	<i>Secondary Mathematics Education</i> Senior Supervisor	<i>The use of tasks and examples in a high school mathematics classroom: Variance of purpose and deployment</i>
Mike Physick M.Sc. (2010-I)	<i>Secondary Mathematics Education</i> Senior Supervisor	<i>Exploring mathematics-related belief systems</i>
Darrien Shannon M.Sc. (2009-III)	<i>Secondary Mathematics Education</i> Senior Supervisor	<i>Avoidance behaviour in a mathematics 10 classroom</i>
Kevin Wells M.Sc. (2009-II)	<i>Secondary Mathematics Education</i> Senior Supervisor	<i>Initializing thinking in the mathematics classroom</i>
Egan Chernoff Ph.D. (2009-II)	<i>Mathematics Education</i> Committee Member	<i>Subjective probabilities derived from the perceived randomness of sequences of outcomes</i>
Ami Mamolo Ph.D. (2009-I)	<i>Mathematics Education</i> Committee Member	<i>Glimpses of infinity: Intuitions, paradoxes, and cognitive leaps</i>
Monica Tang M.A. (2008-III)	<i>Individual Program</i> Senior Supervisor	<i>Student use of language in French immersion mathematics</i>
Chandra Balakrishnan M.Sc. (2008-I)	<i>Secondary Mathematics Education</i> Senior Supervisor	<i>Teaching secondary school mathematics through storytelling</i>

Kanwal Neel Ph.D. (2008-I)	<i>Curriculum and Instruction – Mathematics Education Emphasis</i> Senior Supervisor	<i>Numeracy in Haida Gwaii BC: Connecting community, pedagogy, and epistemology</i>
Duncan Fraser M.Sc. (2007-II)	<i>Secondary Mathematics Education</i> Senior Supervisor	<i>Using cognitive conflict to promote a structural understanding of Grade 11 algebra</i>
Scott Rickard M.Sc. (2006-III)	<i>Secondary Mathematics Education</i> Senior Supervisor	<i>Unpacking Student Discourse in Middle School Mathematics</i>
Soheila Gholamazad Ph.D. (2006-III)	<i>Curriculum and Instruction – Mathematics Education Emphasis</i> Committee Member	<i>Pre-Service Elementary School Teachers' Experiences with Interpreting and Creating Proofs</i>
Kerry Handscomb M.Sc. (2005-II)	<i>Secondary Mathematics Education</i> Committee Member	<i>Image-Based Reasoning in Geometry</i>

**In Progress**

Darien Allen Ph.D.	<i>Mathematics Education</i> Senior Supervisor
Ray Appel Ph.D.	<i>Mathematics Education</i> Senior Supervisor
Susan Oesterle Ph.D.	<i>Mathematics Education</i> Senior Supervisor
Christian Bernéche Ph.D.	<i>Mathematics Education</i> Senior Supervisor
Paulino Preciado Babb Ph.D.	<i>Mathematics Education</i> Senior Supervisor
Melania Alvarez Ph.D.	<i>Mathematics Education</i> Senior Supervisor
Natasa Sirotic Ph.D.	<i>Mathematics Education</i> Senior Supervisor
Elena Halmaghi Ph.D.	<i>Mathematics Education</i> Senior Supervisor
Adrienne Castellon Ed.D.	<i>Educational Leadership</i> Senior Supervisor
Danica Matheson M.A.	<i>Individual Program</i> Senior Supervisor
Minnie Liu M.Sc.	<i>Secondary Mathematics Education</i> Senior Supervisor
Chiaka Drakes Ph.D.	<i>Mathematics</i> Committee Member
Jennifer Law M.Sc.	<i>Secondary Mathematics Education</i> Committee Member

***Thesis Examiner***

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Heidi Krzywacki, Ph.D.	External Examiner University of Helsinki	2009
Shabnam Kavousian, Ph.D.	Internal External	2008
Aldona Businskas, Ph.D.	Internal External	2008

***Comprehensive Exam Supervisor/Reader***

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Ph.D.	13 (up to Sept 15, 2010)
Ed.D.	1 (up to Sept 15, 2010)
M.Ed. – on campus	31 (up to Sept 15, 2010)
M.Ed. – off campus	27 (up to Sept 15, 2010)

***Directed Reading Supervision***

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2010	Educ 490 (n=2), Educ 910 (n=3)
2009	Educ 705 (n=3), Educ 910 (n=1)
2008	Educ 910 (n=8)
2007	Educ 705 (n=2), Educ 910 (n=1)
2006	Educ 490 (n=1), Educ 705(n=3)
2005	Educ 705 (n=3), Educ 910 (n=1)
2004	Educ 703 (n=1)

***Program Development***

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2008	Masters in Secondary Mathematics Education <ul style="list-style-type: none"> <li>▪ revised the composition and sequence of courses</li> </ul>
2005	Ph.D. program in Mathematics Education <ul style="list-style-type: none"> <li>▪ developed in collaboration with Campbell, O'Shea, and Zazkis.</li> <li>▪ approved by Faculty and Senate in 2005</li> </ul>
2005	Field Program in Mathematical Literacy <ul style="list-style-type: none"> <li>▪ developed in collaboration with Rina Zazkis.</li> <li>▪ four new courses were developed for this program.</li> <li>▪ program commenced in the Summer of 2005.</li> <li>▪ program has run in 2005, 2007.</li> </ul>

- 2004, 2006, 2008, 2009      M.Ed. Off-Campus Program in Numeracy
- developed in collaboration with Rina Zazkis.
  - program commenced in the Fall of 2005.
  - program ran in 2005, 2007, 2009.
  - program will run in 2010.

***Course Development***

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- 2010              EDUC 313: Numeracy and Society – online course
- developed in collaboration with Kevin Wells and Christian Bernéche
  - offered for first time in 2011-II
- 2009              EDUC 375: Struggle with Mathematics: Sources and Recovery
- developed in collaboration with Rina Zazkis
  - approved for Q (Quantitative Reasoning)
  - offered for the first time in 2010-II
- 2007              EDUC 313: Numeracy and Society
- developed in collaboration with Rina Zazkis
  - approved for Q-Hum (Quantitative reasoning for students in Humanities)
  - offered for the first time in 2008-II
- 2006              EDUC 487: Equity, Equality, and Evidence: Empirical approaches to Social Justice Issues in Education
- developed in collaboration with Stan Garrod
  - provisionally approved for Q-Hum (Quantitative Reasoning for students in Humanities)
  - offered for the first time in 2007-II
- 2005              EDUC 475: Designs for Learning Mathematics: Elementary
- developed a new version of the Distance Education course.
  - offered for the first time in 2007-II
- 2005              EDUC 942: Contemporary Issues in Mathematics Education.
- developed in collaboration with Rina Zazkis as a part of the new PhD program in Mathematics Education.
  - offered for the first time in 2006-III.
- 2005              EDPR 512: Numbers and Beyond
- special topics course was developed in collaboration with Zazkis as a part of the New Field Program in Mathematical Literacy (Delta).
  - offered in 2005-II.
- 2005              EDUC 711: Conceptions of Numeracy
- special topics course developed in collaboration with Zazkis as a part of the New MEd Program in Numeracy (Yukon).
  - offered in the 2005-III.

2004

EDUC 211: Mathematical Experience 1: Numbers and beyond

EDUC 212: Mathematical Experience 2: Shape and Space

- these courses were developed in collaboration with Rina Zazkis in response to the University Undergraduate Curriculum Implementation Task Force's call for proposals.
- approved for B-Sci ("Breadth Sciences) designation and Q-Hum (Quantitative reasoning for students in Humanities) designation.
- EDUC 211 offered for the first time in 2004-III
- EDUC 212 offered for the first time in 2005-I

***SERVICE***

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***Faculty Service***

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2010 – present	Co-chair – <i>Subcommittee on Graduate Supervision</i>
2007 – present	co-director – <i>David Wheeler Institute</i>
2005 – present	coordinator – <i>Secondary Mathematics Master's Program</i>
2005 – present	associate director – <i>IERG</i>
2008 – 2010	member – <i>Graduate Programs Committee</i>
2006 – 2007	<i>Associate Dean</i>
2004 – 2006	member – <i>Faculty Appointments Committee</i>
2004 – 2006	member – <i>Field Programs Committee</i>
2002 – 2003	graduate representative – <i>Faculty of Education Dean's Search Committee</i>
2001 – 2003	conference organizing committee – <i>Education with/ out Borders</i>

***University Service***

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2007 – 2010	chair – <i>Senate Appeal Board</i>
2006 – 2009	senator – <i>SFU Senate</i>
2006 – 2009	senate representative – <i>Senate Committee on University Honors</i>
2004 – 2006	faculty representative – <i>Senate Appeal Board</i>
2002 – 2004	graduate student representative – <i>Senate Appeal Board</i>
2003 – 2004	graduate student representative – <i>Committee to Review University Admissions</i>

***Service to the Academic Community at Large***

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2010	chair of LOC – 34 <sup>th</sup> meeting of the <i>Canadian Mathematics Education Study Group</i>
2010 – present	vice-president – <i>Canadian Mathematics Education Study Group</i>
2009	working group leader – Rethinking Assessment at the 4 <sup>th</sup> <i>Canadian Mathematics Education Forum</i>
2009 – 2010	executive committee member – <i>Canadian Mathematics Education Study Group</i>
2006 – 2010	steering committee member – <i>International Group for the Psychology of Mathematics Education</i>
2005 – present	conference proceedings editor – <i>Canadian Mathematics Education Study Group</i>

- 2005                    program reviewer – *Kwantlen University College Mathematics Minor*
- 2003                    book reviewer – J. A. Van de Walle (author). *Elementary and Middle School Mathematics: Teaching Developmentally* – Canadian Edition
- 2003                    working group coordinator – *Mathematics as Story Conference*, University of Western Ontario

**Regular Reviewer of Manuscripts for Refereed Journals/Proceedings**

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- 2010 – present        Member of editorial board – Canadian Journal for science, Mathematics Technology Education
- 2008 – present        member of editorial board – *Mathematical Thinking and Learning*
- 2007 – present        reviewer – *Journal for Mathematics Teacher Education*
- 2007 – present        reviewer – *Educational Studies in Mathematics*
- 2006 – present        reviewer – *Journal of Mathematics Teacher Education*
- 2004 – present        reviewer – *The International Group for the Psychology of Mathematics Education Conference*
- 2002 – present        reviewer – *The International Group for the Psychology of Mathematics Education Conference – North American Chapter*

**Occasional Review of Manuscripts for Refereed Journals/Proceedings**

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*Canadian Journal of Science, Mathematics and Technology Education, Paidensis; CBMS Research in Collegiate Mathematics Education; International Journal For Education Policy and Leadership; The Journal for Research in Mathematics Education; Journal of Curriculum Studies, Canadian Journal of Science, Mathematics and Technology Education; Canadian Journal of Education; Mathematical Teaching and Learning; Focus on Learning Problems in Mathematics; Journal of Applied Research on Learning; International Journal on Mathematics Education*

**Service to the Professional Community**

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- 2007 – present        Member of BCAMT executive
- 2009 – present        Editor for Vector (journal of the BCAMT)

## ***PROFESSIONAL WORK***

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### ***Professional Employment***

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2002 – present	Inservice Teacher Consultant	Alberta Consortium of Mathematics Consultants North Regional Learning Consortium (Alberta) Coquitlam School District (sd #43) Prince George School District (sd #57) Bulkley Valley School District (sd #54) Central Okanagan School District (sd #23) Okanagan Skaha School District (sd #67) Vancouver School District (sd #39)
1994 – 1999	High School Mathematics/Physics Teacher (8-12)	Lord Byng Secondary Vancouver, BC, Canada

### ***Invited Professional Conference Presentations***

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13. The Mirror that is Our Classroom  
*Links to Learning*  
Penticton, August 2010
12. Learning Styles: Nature or Nurture  
*Annual meeting of the British Columbia Committee on the Undergraduate Program in Mathematics*  
Burnaby, May 2010
11. Student Behaviour as Sensible Reflections of our Teaching  
*Annual conference of the Saskatchewan Mathematics Teacher' Society*  
Saskatoon, May 2010
10. Students as Sensible  
*Northwest Mathematics Conference*  
Whistler, October 2009
9. Numeracy  
*Prince George School District*  
Prince George, November 2007.
8. Learning and Teaching Mathematics  
*Adult Basic Education Meeting – BC Association of College Mathematics*  
Richmond, BC, March 2007
7. Mathematical Problem Solving and Assessment  
*Prince George School District*  
Prince George, November 2006.
6. Exploring Producibles: Getting the Genie Back Into the Bottle?  
*Coquitlam School District Professional Conference*  
Coquitlam, BC, January 2006.
5. Assessing Numeracy: How Do You Photograph the Wind?  
*Coquitlam School District Professional Conference*  
Coquitlam, BC, January 2006.
4. Problem Solving: What George Polya Neglected to Tell Us  
*Ontario Association of Mathematics Educators Conference*  
North York, On, May 2005.

3. Problem Solving in the Classroom  
*Prince George School District*  
Prince George, April 2005.
2. Understanding Numeracy  
*Coquitlam School District*  
Port Coquitlam, January 2005.
1. Problem Solving  
*Coquitlam School District Professional Conference*  
Coquitlam, BC, January 2004.

***Selected Invited Professional Workshops***

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24. Four Purposes of Assessment  
*Okanagan Skaha School District – Links to Learning*  
Penticton, September 2010.
23. Building a Culture of Thinking  
*Okanagan Skaha School District – Links to Learning*  
Penticton, September 2010.
22. The Dark Capacities  
*Thinking 101*  
Grand Prairie, August 2010
21. Number Shapes  
*SFU Math Camp*  
Burnaby, July 2010
20. Teaching to the New 10C Curriculum  
*Alberta Consortium of Mathematics Consultants*  
Edmonton, June 2010
19. Numeracy Tasks for Grades 7-9  
*Annual conference of the Saskatchewan Mathematics Teacher' Society*  
Saskatoon, May 2010
18. Numeracy Tasks for Grades 4-6  
*Annual conference of the Saskatchewan Mathematics Teacher' Society*  
Saskatoon, May 2010
17. Building a Culture of Thinking  
*Alberta Consortium of Mathematics Consultants*  
Webinar Series, April – May, 2010
16. Doing Mathematics  
*Alberta Consortium of Mathematics Consultants*  
Calgary, January 2010
15. Assessment for a Changing Mathematics  
Vancouver School District  
Vancouver, 2009.
14. Designing Numeracy Tasks (series of 3 workshops/year)  
Central Okanagan School District  
Kelowna, 2009, 2010.
13. Assessment for a Changing Mathematics  
*Okanagan Skaha School District*  
Penticton, September 2009.
12. Engaging Students in Mathematics  
*Okanagan Skaha School District*  
Penticton, September 2009.
11. Elementary Numeracy Tasks  
*British Columbia Association of Mathematics Teachers Conference*

- Vancouver, October 2008.
10. Interesting Mathematics Problems  
*British Columbia Association of Mathematics Teachers Conference*  
Vancouver, October 2008.
  9. Rethinking Teaching and Assessment (series of 3 workshops/year)  
*Bulkley Valley School District*  
Smithers, 2008, 2009.
  8. Numeracy Assessment Information Session  
*Prince George School District*  
Prince George, 2007, 2008, 2009.
  7. Designing Numeracy Tasks (series of 3 workshops/year)  
*Prince George School District*  
Prince George, 2005, 2006, 2007.
  6. Designing Numeracy Tasks (series of 3-6 workshops/year)  
*Coquitlam School District*  
Coquitlam, 2004, 2005, 2006, 2007, 2008
  5. Understanding Numeracy – parent workshop  
*North Shore Community of Schools*  
Coquitlam, November 2005.
  4. Problem Solving and Numeracy  
*Coast Mountain School District*  
Terrace/Hazelton, May 2004.
  3. Math Projects for Math Fairs  
*Pacific Institute of Mathematics*  
UBC, December 2003.
  2. Mathematics in the Movies – Fiction or Non-Fiction  
*SFU Department of Mathematics Math Camps*  
SFU, July 2003.
  1. Seeing Mathematics Through Students' Eyes  
*British Columbia Association of Mathematics Teachers – New Teachers' Conference.*  
Burnaby, BC, February 2003.