Nicolas Fillion
Curriculum Vitae

✉ Simon Fraser University
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Contents

Areas of Specialization

Philosophy of Mathematics, Philosophy of Science, Logic & Formal Semantics, Scientific Computing

Areas of Competence

Decision and Game Theory, Early Analytic Philosophy, Philosophy of Physics, Epistemology

Education

PhD	Philosophy, University of Western Ontario	2012
MSc	Applied Mathematics, University of Western Ontario	2011
BA	Mathematical Sciences, University of Illinois Springfield	2009
MA	Philosophy, Université Laval	2006
Certificate	Russian Studies, Université Laval and Russian State University for the Humanities	2006
BA	Philosophy, Université Laval	2003
DEC	Natural Sciences, Collège Mérici	2000

Professional Appointments

Assistant Professor	Simon Fraser University, Department of Philosophy	2015–current
Shadbolt Visiting Assistant Professor	Simon Fraser University, Department of Philosophy	2013–2015
Postdoc	The University of Western Ontario, Department of Statistics & Actuarial Sciences	2012–2013
Research Scholar	The University of Pittsburgh, Department of Philosophy	2011

Awards and Distinctions

1. Cormack Teaching Award, Faculty of Arts and Social Sciences, SFU, 2019.
2. Foundational Questions Institute (FQXi) 2015 Essay Prize "Trick or Truth: the Mysterious Connection Between Physics and Mathematics": 4^{th} prize out of more than 200 submissions from 46 countries for my essay "Demystifying the Applicability of Mathematics."
3. Notable Book 2013 list of the *ACM Computing Reviews* for the book *A Graduate Introduction to Numerical Methods* in the category "Mathematics of Computing."
4. University Teaching Honour Roll Certificate of Excellence 2011-2012, from the University of Western Ontario Students' Council.
5. Excellence Scholarship in chemistry & biology, Collège Mérici, 1998 competition.

Publications

Books

1. Fillion, N., Corless, R.M., and Kotsireas, I. (Eds) (2019). *Algorithms and complexity in mathematics, epistemology, and science*, Fields Institute Communications, Springer.
2. Corless, R.M. and Fillion, N. (2013). *A graduate introduction to numerical methods, from the viewpoint of backward error analysis*, Springer: New York, 868 pp.
   Reviewed by: A. Townsend, *SIAM Review*, Vol. 58, Iss. 4, 2016; N. Higham, Blog entry, 2015; J.S.C. Prentice, *Mathematical Reviews*, January 2015; R. Plato, *zbMATH*, Vol. 1295, 2014.

Refereed Journal Articles

1. Fillion, N (forthcoming). "Developing core competencies with the Ethics Bowl: Perspectives from British Columbia," *Detours: Social Science Education Research Journal*, 1(1).
2. Fillion, N. and Corless, R.M. (2019), "Concepts of solution and the finite element method: A philosophical take on variational crimes," *Philosophy & Technology*.
3. Fillion, N. (2019) "Conceptual and computational mathematics," *Philosophia Mathematica*, 27(2): 199-218.
4. Fillion, N. (2018) "Clinical equipoise and adaptive clinical trials," *Topoi*, 38(2): 457-467.
5. Fillion, N. and Moir, R (2018). "Explanation and abstraction from a backward-error analytic perspective," *European Journal for the Philosophy of Science*, 8(3): 735-759.
6. Fillion, N. and Bangu, S. (2015). "Numerical methods, complexity, and epistemic hierarchies," *Philosophy of Science*, 82: 941-955.
7. Bellhouse, D.R. and Fillion, N. (2015). "Le Her and other problems in probability discussed by Bernoulli, Montmort and Waldegrave," *Statistical Science*, 30(1): 26-39.
8. Fillion, N. and Corless, R.M (2014). "On the epistemological analysis of modeling and computational error in the mathematical sciences," *Synthese*, 191: 1451-1467.

Refereed Book Chapters

1. Fillion N (2017). "Vindicating Computer Simulations in Practice," in: J. Lenhard (Ed), *Mathematics as a Tool*, Boston Studies in the History and Philosophy of Science, Springer, pp. 137-156.
2. Fillion N (2016). "Demystifying the Applicability of Mathematics," in: A. Aguirre, B. Foster & Z. Merali (Eds), *Trick or Truth: the Mysterious Connection Between Physics and Mathematics?* (Essay-Winning Awards of the Foundational Questions Institute 2015), Springer, pp. 135-144.

Refereed Proceedings Articles (Entire paper refereed)

1. Corless, R.M. and Fillion, N (2019). "Backward Error Analysis for Perturbation Methods," in *Algorithms and Complexity in Mathematics, Epistemology, and Science*, Springer, pp. 35-80.
2. Fillion, N. (2015). "The 18th-century origins of the concept of mixed-strategy equilibrium in game theory," in: M. Zack & E. Landry (Eds.), *Research in History and Philosophy of Mathematics*, Springer, pp. 63-78.
3. Fillion, N. (2008). "The Kolmogorov-Gödel Translation of Classical Arithmetic into Intuitionistic Arithmetic," in: A. Cupillari (Ed.), *Proceedings of the Canadian Society for History and Philosophy of Mathematics*: pp. 77-88.

Technical Reports

1. Fillion, N. and Martelli, D. (2017). "Overview of Critical Thinking in the BC K-12 Curriculum Revisions: Implications for Post-Secondary Teaching and Learning," Commissioned by the Faculty of Arts and Social Science and the Faculty of Education at Simon Fraser University, 31 pp.
2. Fillion, N. (2017). "Creating a pathway to a teaching career for philosophy graduates: An opportunity to deepen the talent pool for teacher recruitment in British Columbia," submitted to the Review of the Standards for the Education, Competence and Professional Conduct of Educators in BC of the BC Teachers' Council, 8 pp.

Encyclopedia Articles

1. Fillion N. (forthcoming), "Accuracy," in *The Sage Encyclopedia of Theory*, J. Mattingly (Ed). Golson Publishing.
2. Fillion N. and Corless R.M. (forthcoming), "Perturbation Theory," in *The Sage Encyclopedia of Theory*, J. Mattingly (Ed). Golson Publishing.

Critical Notices & Book Reviews

1. Fillion, N. and Ashton, Z. (2017) "Review of R. Wagner's *Making and Breaking Mathematical Sense*," *Canadian Mathematical Society Notes*, October/November, pp. 8-9.
2. Tardif, P.-A., Elawani, J., and Fillion, N. (2017). "François Tournier: un hommage," *Phares*, XVII: pp. 9-24.
3. Fillion, N. and Zurcher, B. (2014). "Review of Richard Arthur's *Natural Deduction: An Introduction to Logic with Real Arguments, a Little History, and Some Humour*," *Dialogue*, 54(1): pp. 190-192.
4. Kao, M., Fillion, N. and Bell, J.L. (2010). "Critical Study of Jean-Pierre Marquis: *From a Geometrical Point of View: A Study of the History and Philosophy of Category Theory*," *Philosophia Mathematica*, 18(2): pp. 227–234.

Pedagogical material & software

1. A LaTeX package for dynamic and color-coded deductions and trees in classical and non-classical logic.
2. Fillion N. (2016). "Introduction to Logic Exercises: 800 supplemental exercises for *An Introduction to Logic* by R.T.W. Arthur", Broadview Press, distributed online with book purchase.

Grants and Fellowships

Research Grants

1. SSHRC 2018–2022
   Type: Insight Grant
   Project: The third pillar of scientific rationality (#435-2018-0242)
   Collaborators: Robert M. Corless, Chris Smeenk
   Amount: $75,713
2. SFU Teaching and Learning Centre 2018-2019
   Type: Open Educational Resources Grant
   Project: Upper-year open access logic textbook with applications to core interdisciplinary skills
   Amount: $5,000
3. UBC Equity Enhancement Fund 2018
   Project: Community consultation on engaging Indigenous and academic philosophy
   Applicant: Sylvia Berryman; Partners: Bruce Ferguson, Nicolas Fillion
   Amount: $5,800
4. SFU's Office of the President 2015–2018
   Type: President's Research Startup Grant
   Amount: $17,500
5. SFU's VP Research 2015–2017
   Type: SSHRC VPR 4A
   Project: The justifiability of models of complex empirical systems in contexts of predominant error and uncertainty
   Amount: $10,000
6. SFU Teaching and Learning Center 2015–2016
   Type: Teaching and Learning Development Grant
   Project: Improving the teaching of threshold concepts in introductory logic courses
   Amount: $10,000
7. Rotman Research Catalyst Fund 2014–2015
   Type: Catalyst Grant
   Project: Structure, Nonlinearity, and Complexity in Computational Epistemology

Co-Applicant: R.M. Corless
Amount: $8,850

Fellowships

1. Schmeelk Canada Foundation 2009–2011
   Richard J. Schmeelk Canada Fellowship ($40,000)
2. Social Sciences and Humanities Research Council of Canada 2009-2010
   Doctoral Fellowship ($20,000), Declined
3. Ontario Graduate Scholarship 2009–2010
   Doctoral Fellowship ($15,000), Declined
4. Fonds Québécois de la Recherche sur la Société et la Culture 2006–2009
   Doctoral Fellowship ($60,000)
5. Ladislaw-Goncarow Foundation 2004-2005
   Ladislaw-Goncarow Scholarship to study in Russia (app. $6,500)

Funding for events

1. The Fields Institute for Research in the Mathematical Sciences 2016
   Type: General Scientific Activity Support
   Amount: $16,000
   Project: Computationally Assisted Mathematical Discovery
   Co-Applicants: J.M. Borwein, D.J. Jeffrey, I.S. Kotsireas, R.M. Corless
2. The Fields Institute for Research in the Mathematical Sciences 2015
   Type: General Scientific Activity Support
   Amount: $6,000
   Project: Algorithms and Complexity in Mathematics, Epistemology, and Science
   Co-Applicants: R.M. Corless, C. Smeenk

Invited Colloquium Talks

1. "Conceptual and computational mathematics" Department of Philosophy, McMaster University, 2019.
2. "Inferential practices in applied mathematics from the critical thinking point of view," School of Historical and Philosophical Inquiry, University of Queensland, 2018.
3. "I can't get no satisfaction: the concepts we need to reconstruct arguments in applied mathematics," Department of Logic and Philosophy of Science, University of California, Irvine, 2017.
4. "I can't get no satisfaction: the concepts we need to reconstruct arguments in applied mathematics," Department of Applied Mathematics, Western University, 2017.
5. "The unreasonable effectiveness of mathematics from the numerical analysis point of view," Department of Mathematic, University of Saskatchewan, 2016.
6. "Demystifying the miracle of the effectiveness of applied mathematics," Department of Philosophy, University of Victoria, 2014.
7. "Backward error analysts without borders," Centre for Scientific Computing, Pacific Institute for the Mathematical Sciences (PIMS), Simon Fraser University, 2014.
8. "Aristotle's logic: A comparison of Łukasiewicz's and Corcoran-Smiley's reconstructions," Buffalo Logic Colloquim, The University at Buffalo, State University of New York, 2009.

Conference Activities

Invited Talks

1. "Concepts of approximate solutions and the finite element method," Numerical Computations: Theory and Algorithms. The 3rd International Conference and Summer School, Crotone, Italy, 2019.
2. "Ontology in arithmetic and logic," Workshop on Ontology in Arithmetic and Logic, UQAM, 2019.
3. "Organizing an Ethics Bowl: three levels of involvement," The Collaborative workshop, McMaster, 2019.

4. "A philosophical take on variational crimes," Workshop on Modeling and Reasoning in the Sciences, National Yang-Ming University, Taipei, Taiwan, 2018.
5. Fillion, N. and Martelli, D."Overview of critical thinking in the BC K-12 curriculum revisions: Implications for post-secondary teaching and learning," Developing Minds: Critical Thinking in Curriculum Transfer, Faculty of Arts and Social Sciences & Faculty of Education, Simon Fraser University, 2018.
6. "Conceptual and computational mathematics," Philosophy of Applied Mathematics Workshop, Paris-Sorbonne, 2016.
7. "The surprisingly old origins of modern decision and game theory," 43th Annual Philosophy of Science Conference, Inter-University Center, Dubrovnik, 2016.
8. "The philosopher's best friend," Keynote address at the 2015 Western Canadian Undergraduate Conference, Simon Fraser University, 2015.
9. "The vindication of computer simulations," Mathematics as a Tool, Center for Interdisciplinary Studies, University of Bielefeld, 2014.
10. "Error and computation in the context of scientific modelling (with a demystification of the unreasonable effectiveness of mathematics)," 40th Annual Philosophy of Science Conference, Inter-University Center, Dubrovnik, 2013.

Contributed Talks

Acronyms used: ACFAS (Congrés annuel de l'Association Francophone pour le Savoir), ACMES (Algorithm and Complexity in Mathematics, Epistemology and Science conference), APA (American Philosophical Association), BCSSTA (British Columbia Social Studies Teachers Association annual conference), CMS (Canadian Mathematical Society winter meeting), CSHPM (Canadian Society for the History and Philosophy of Mathematics' annual meeting), CSHPS (Canadian Society for the History and Philosophy of Science's annual conference), HAPOC (International conference of the History and Philosophy of Computing), NWPC (Annual Northwest Philosophy Conference), PSA (Philosophy of Science Association's biennial meeting), SPSP (Society for the Philosophy of Science in Practice Biennial Meeting), WCPA (Western Canadian Philosophical Association Annual Meeting)

1. "La Coupe Éthique du Canada: un débat d'idée basé sur le respect, l'écoute, et la pensée critique," APPIPC, Vancouver, 2019.
2. "Concepts of approximate solutions and the finite element method," EPSA biennial conference, University of Geneva, Switzerland, 2019.
3. Fillion, N. & Martelli, D., "Critical thinking in the new BC K-12 curriculum: challenges and opportunities," CPA, Vancouver, 2019.
4. "I can't get no satisfaction, but I can explain it," CSHPS, Vancouver, 2019.
5. "Concepts of approximation and the success of numerical methods," CSHPM, Vancouver, 2019.
6. "A mechanism of meaning: One interpretation instrument for classroom historical inquiry," 22$^{\text{nd}}$ Annual IOP Conference, UBC, 2019.
7. "A philosophical take on variational crimes in the finite element method," CMS, Vancouver, 2018.
8. Fillion, N. & Lynn, M., "The content and logic of imperatives," WCPA, University of Calgary, 2018.
9. Fillion, N. & Martelli, N., "Integrating critical thinking in the classroom: An SFU initiative to support teachers," BCSSTA, Vancouver Tech, 2018.
10. "A philosophical take on variational crimes," SPSP, Ghent University, 2018.
11. "An approach to critical thinking: philosophy of all things!," BCSSTA, Vancouver Tech, 2017.
12. "Assessing inexactly computed solutions in modeling contexts," HAPOC, Masaryk University, Brnó, Czech Republic, 2017.
13. "Conceptual and computational mathematics," CSHPM, York University, 2017.
14. "The discovery and justification of mathematical knowledge in the light of modern computational methods," PSA, Atlanta, 2016.
15. "Conceptual and computational mathematics," WCPA, University of Alberta, 2016.
16. "The surprisingly old origins of modern decision and game theory," CMS, Montreal, 2015.
17. "The surprisingly old origins of modern decision and game theory" (job talk), Department of Philosophy, Simon Fraser University, 2015.

18. Fillion, N. & Zurcher, B., "Threshold concepts in formal logic," CSHPS, University of Ottawa, 2015.
19. "Rethinking the relation between verification and validation," ACMES, Western University, 2015.
20. Fillion, N. and Bangu, S., "Solutions in the Mathematical Sciences & Epistemic Hierarchies," PSA, Chicago, 2014.
21. "The vindication of computer simulations," Knowledge and Models in Climate Science: Philosophical, Historical, and Scientific Perspectives, Rotman Institute of Philosophy, Western University, 2014.
22. Fillion, N. and Bangu, S., "Perspectives on computation and epistemic hierarchies," WCPA, University of British Columbia, 2014.
23. Fillion, N., and Bellhouse, D.R., "Discovering the concept of minimax solution: Montmort, Waldegrave and Bernoulli," CSHPM, Brock University, 2014.
24. Zhao, K., Contreras, W., and Fillion, N., "Ultimatum game as an indicator for altruism," CSHPS, Brock University, 2014.
25. Contreras, W., Zhao, K., and Fillion, N., "Asymptotic reasoning in the social sciences," CSHPS, Brock University, 2014.
26. "Backward error analysis as a model for scientific computation," Models and Simulations in the Sciences: Perspectives from Philosophy, History, and Policy, University of Notre Dame, 2014.
27. "Mathematical models & epistemic hierarchies," NWPC, Pacific University, 2013.
28. "Minimal models and scientific computation as aspects of the applicability of mathematics," Workshop on the Applicability of Mathematics, Simon Fraser University, 2013.
29. "On the epistemological analysis of modeling and computational error in the mathematical sciences," CSHPS, University of Victoria, 2013.
30. "The applicability of mathematics in the natural sciences" (job talk), Department of Philosophy, Simon Fraser University, 2013.
31. "L'appliquabilité des mathématiques en sciences naturelles" (job talk), Faculty of Philosophy, Université Laval, 2012.
32. "Backward-error analysis revisited," Southern Ontario Numerical Analysis Day, University of Toronto, 2012.
33. "The unreasonable awesomeness of mathematics," PGSA Colloquium, Western University, 2012.
34. Fillion, N. and Corless, R.M., "Computation and explanation," The Plurality of Numerical Methods and their Philosophical Analysis, Institute for the History and Philosophy of Science and Technology, Université Paris-I Panthéon-Sorbonnes, 2011.
35. Fillion, N. and Moir, R., "Explanation and abstraction: The case of backward error analysis," PSA, Montréal, 2010.
36. "Clinical equipoise and the ethics of adaptive trials," Meeting of the Canadian Society for the Study of Practical Ethics, Concordia University, 2010.
37. Fillion, N. and Moir, R., "Modeling and explanation: Some lessons from modern error theory," CSHPS, Concordia University, 2010.
38. Fillion, N. and Moir, R., "A step forward with backward error," PGSA Colloquium, Western University, 2009.
39. "Two traditions in logic," PGSA Colloquium, Western University, 2009.
40. "Conséquences observationnelles en mécanique des continua," ACFAS, University of Ottawa, 2009.
41. "Logique aristotélicienne: Ontologie formelle ou épistémologie formelle?," ACFAS, University of Ottawa, 2009.
42. "Explanation in phenomenological theories of physics," Philosophy Graduate Colloquium, University of Waterloo, 2008.
43. "The Kolmogorov-Gödel translation of classical arithmetic into intuitionistic arithmetic," CSHPM, University of British Columbia, 2008.
44. "Aristotle's logic and its modern reconstructions," CSHPS, University of British Columbia, 2008.
45. "The semantics of conditionals," Philosophy Graduate Conference, University of Waterloo, 2008.
46. "Intuitionism and logicism on the foundations of arithmetic," PGSA Colloquium, Western University, 2008.
47. "La distinction fregéenne sens/référence et les conditions de possibilité de la métathéorie," ACFAS, Université du Québec à Trois-Rivières, 2007.

48. "Aristotelian and modern logic," Annual Graduate Colloquium, Concordia University, 2007.
49. "L'axiomatique: Théorie générale des structures conceptuelles," Colloque pour étudiants gradués, Université Laval, 2006.

Poster presentation

1. Fillion, N. and Corless, R. "Concepts of approximate solutions and the finite element method," PSA, Seattle, 2018.
2. Batterman, R.W., Fillion, N., Moir, R. and Overton, J., "Idealization in Scientific Explanation," Western Research Day, Western University, 2010.

Commentator

1. "Accounting for polysemy and role asymmetry in the evolution of compositional signals" (by Travis Lacroix), CPA, 2019.
2. "Using Logic to Evolve More Logic: Composing Logical Operators via Self-Assembly" (by Travis Lacroix), APA Pacific, 2019.
3. "Comments on Ruben's Conditional Theory of Trying" (by Gillman Payette), WCPA, University of Calgary, 2018.
4. "Meaning, Type-Distinctions, and Predication" (by David Liebesman), Workshop: The Intellect and its Philosophical Limits, Simon Fraser University, 2017.
5. "Poincaré and Structuralism in the Philosophy of Mathematics" (by Janet Folina), APA Pacific, Vancouver, 2015.
6. "Modality and the Progressive" (by Ivan Myerhofer), PhilMiLCog, Western University, 2007.

Invited Lectures and Seminars

1. "A graduate introduction to philosophy of scientific computing," 4-hr seminar at the Philosophy & Physical Computing Workshop, Virginia Tech, 2019.
2. "How asymptotics and error analysis actually work," in the seminar on Asymptotics (Robert Batterman), Department of Philosophy, The University of Pittsburgh, February 2019.
3. "Sizing your tin foil hat: critical thinking about conspiracy theories," in the course *Critical Thinking* (Sandra Lapointe), Department of Philosophy, McMaster, October 2018.
4. "A graduate introduction to philosophy of scientific computing," 4-hr seminar at the Philosophy & Physical Computing Workshop, Virginia Tech, 2018.
5. "A survey of scientific explanation," in the graduate course *A Survey of Philosophy of Science* (Kathleen Okruhlik), Department of Philosophy, Western University, February 2013.
6. "Computation in scientific explanation," in the course *Contemporary Philosophy of Science* (Andrew Wayne), Department of Philosophy, University of Guelph, November 2010.
7. "L'œuvre de Frege et son influence," in the course *Philosophie du Langage et Pragmatique* (François Pichette), Lettres et Communications, TÉLUQ, November 2010.
8. "Basic concepts of game theory," in the course *Decision Theory* (Brian Woodcock), Department of Philosophy, Western University, March 2006.
9. "Le réalisme épistémologique de Karl Popper," in the course *Introduction à l'Épistémologie des Sciences* (Daniel Descroches), Faculty of Philosophy, Université Laval, March 2003.
10. "Induction, vérification et falsification," in the course *Histoire des Sciences* (Luc Tremblay), Département d'Histoire et Civilisations, Collège Mérici, November 2002.

Teaching Experience

Simon Fraser University **2013–current**

Semester	Course title	Course number	Enrolment
S2019	Introduction to Logic and Reasoning	PHIL 110	240
W2019	Formal Methods in Philosophy	PHIL 315	33
W2019	Logic, Proofs, and Set Theory	PHIL 310	28

S2018	Formal Epistemology	455W/815	20
S2018	Introduction to Logic and Reasoning	PHIL 110	233
W2018	Deontic logic	PHIL 314	20
W2018	Introduction to Logic and Reasoning	PHIL 110	141
S2017	The Mathematics of Morality (with Evan Tiffany)	PHIL 332/467W/823	15
S2017	Introduction to Logic and Reasoning	PHIL 110	230
W2017	Category theory (Reading course)	MATH 497	3
W2017	Conspiracy Theories	PHIL 131	34
F2016	Model Theory	PHIL 435/813	10
S2016	Introduction to Logic and Reasoning	PHIL 110	141
S2016	Philosophy as Analysis (with Martin Hahn)	PHIL 435/467W/806	16
W2016	Aristotle's logic (Reading course)	PHIL 861	1
F2015	Introduction to Logic and Reasoning	PHIL 110	201
F2015	Modal Logic	PHIL 314	16
F2015	Set Theory (Honour's tutorial/Reading course)	PHIL 332/477	2
S2015	Introduction to Logic and Reasoning	PHIL 110	132
S2015	Philosophy of Science	PHIL341/804	29
W2015	Set Theory (Honours' tutorial)	PHIL 477	2
W2015	Advanced Modal Logic (with Ray Jennings)	PHIL 435	5
F2014	Decision and Game Theory	PHIL 231/815	15
F2014	Modal Logic	PHIL314	23
S2014	Scientific Explanation	PHIL 467W/804	20
S2014	Critical Thinking	PHIL XX1	168
W2014	Asymptotic Explanation	PHIL 815	3
F2013	Philosophy of Science	PHIL 341	33
F2013	Introduction to Logic and Reasoning	PHIL 110	223
		Total	1,736

Other Teaching Experience

A. **The University of Western Ontario** **2008–2012**
   1. Philosophy of Science (2nd-year) W2012
   2. Basic Logic (6-week intensive equivalent to a full-year course, 2nd-year) S2010
   3. Introduction to Philosophy (full-year course, 1st-year) F2008/W2009

B. **Teaching Assistant.** I have previously been teaching assistant in 13 courses at the undergraduate and graduate levels, in philosophy, applied mathematics, and in French, at the University of Western Ontario, the Russian State University for Humanities, and Université Laval.

Supervision & Graduate Examination

Graduate Supervision

1. Somayeh Tohidi, Philosophy, SFU F2017–
2. Farshad Sadoughian-Zadeh, Philosophy, SFU S2018–S2019
   Paper: Endlessly dependent *propositio*: Buridan and the liar paradox
3. Irene Claudia Noharinaivo, MA Mathematics, African Institute for Mathematical Sciences F2018–S2019
   (co-supervision with Rob Corless)
   Paper: Backward Error for Continued Fractions
4. Zoe Ashton, Philosophy, SFU F2016–S2018
   Paper: The Role of Audience in Mathematical Proof Development
   Placement: PhD at the Ohio State University
5. Gabriel Larivière, Philosophy, SFU F2015-W2017
   Thesis: On Cauchy's Rigorization of Complex Analysis
   Placement: MA in Islamic Studies, McGill

6. Travis Lacroix, MA Philosophy, SFU — F2014–W2016
   Paper: Signaling games and their models
   Placement: PhD at University of California, Irvine (LPS department)
7. Bradley Zurcher, MA Philosophy, SFU — F2013–W2016
   Paper: Aristotle's theory of explanatory entailment
   Placement: Law School at Washington University in St. Louis (top 20 law school)
8. Yuting (Kino) Zhao, MA Philosophy, SFU — F2013–W2015
   Paper: What is rationality good for? A game theoretic perspective
   Placement: PhD at University of California, Irvine (LPS department).

Other graduate supervision

1. Dale Martelli, PhD Education, SFU (thesis committee member) — F2018–

Service to Profession

Professional leadership

1. Organizer of the BC Regional Ethics Bowl — W2019–
2. Organizer of many professional development workshops on critical thinking for local teachers — 2017–
3. Leadership of the provincial BC initiative to make philosophy a teachable subject in high school — W2017–
4. CPA Board of Directors — S2017–2019

Research Proposals Review

1. Social Sciences and Humanities Research Council (SSHRC) — 2020
   Insight Grants competition
2. Fonds de recherche du Québec – Société et culture (FRQSC) – Ethics and Philosophy — 2019, 2020
   Provincial MA and PhD fellowship competition
3. FWO: Fonds voor Wetenschappelijk Onderzoek (Research Foundation - Flanders) — 2017
   2017 Postdoctoral competition

Conference Organization

1. ACMES: Algorithms and Complexity and Mathematics, Epistemology, and Science
   @ UWO (co-organizers: J.M. Borwein, D.J. Jeffrey, I.S. Kotsireas, and R.M. Corless) — May 2016
   @ UWO (co-organizers: R.M. Corless, C. Smeenk, R. Moir) — May 2015
2. Seminar in the History and Philosophy of Mathematics
   @ Simon Fraser University (co-organizer: Tom Archibald) — 2013–2014
3. LMP: Logic, Mathematics, and Physics Graduate Philosophy Conference
   @ Western University (co-organizer: E. Doyle) — 2010
   @ Western University — 2009
   @ Western University — 2008
4. Philosophy Graduate Students Association Colloquium Series
   @ Western University (co-organizer: K. Biniek) — 2008–2009
   @ Western University — 2007–2008

Program Committee of External Conferences

1. APA Pacific Program Committee — 2018—
2. Western-MCMP Philosophy of Computing — 2018–2019
3. Canadian Mathematical Society Winter Meeting Program Committee — 2018

Department & University Service

Academic Committees

Simon Fraser University

1. Outreach Coordinator — F2018–

2. Hiring committees	2015/16, 2016/17, 2019, 2019/2020
3. FIC Course Coordinator (Critical Thinking)	2015–2019
4. Tenure and Promotion Committee, Philosophy	F2018–S2019
5. Communication and Outreach Coordinator	F2014–S2018
6. Undergraduate Curriculum Committee	F2017–S2018
7. Tenure and Promotion Committee, Linguistics	F2017-S2018
8. Tenure & Promotion Committee, Philosophy	F2016–S2017
9. Graduate Committee	F2015–S2016
10. Colloquium Committee	2013–S2016
University of Western Ontario	
11. Graduate Club Administration Board	2011-2012
12. Steering Committee, Rotman Institute of Philosophy	2009-2010
Université Laval	
13. Graduate Program Committee, Graduate representative	2005-2006
14. Graduate Student Association, Vice-president	2005-2006
15. Faculty of Philosophy Graduate Board Member	2003-2004
16. Undergraduate Student Association, President	2001-2002
17. Graduate Program Committee, Undergraduate representative	2001-2002

Languages

French (Native)
English (Fluent)
Russian (Reading skills)

Last updated: October 23, 2019