CURRICULUM VITAE

Doris Jeannotte, Ph.D.
514.987.3000 #5265
doris.jeannotte@uqam.ca
Nationality: Canadian

Languages
French: first language
English: fluent
Spanish: reading (beginner)

EDUCATION

2015 **PH.D., EDUCATION,** UQAM
Dissertation: Mathematical reasoning: proposal of a conceptual model for the teaching and learning of school mathematics. *[Raisonnement mathématique : Proposition d'un modèle conceptuel pour l'enseignement et l'apprentissage au primaire et au secondaire]*
Supervisors: Carolyn Kieran and Stéphane Cyr

2005 **M.A., EDUCATION**, Université de Sherbrooke
Thesis: Letter interpretation and algebra errors by secondary students today and from the late 1970s: a comparative study. [*L'interprétation de la lettre et les erreurs commises en algèbre par des élèves du secondaire d'aujourd'hui et ceux de la fin des années 70 : une étude comparative.]*
Supervisors: Hassan Squalli and Claudine Mary

2001 **B.ED., MATHEMATICS AND PHYSICS SECONDARY TEACHING,** Université de Sherbrooke

PROFESSIONAL EXPERIENCE

2012- **Associate Professor,** Mathematics Department, UQAM
(**Tenured**: 2016 to present)

2010-2011 **Lecturer**, Mathematics Department, UQAM

2008-2011 **Research Assistant,** Mathematics Department, UQAM
Project: Developing proof writing abilities at the elementary level. Professor in charge: Stéphane Cyr, UQAM.

2008 **Research internship,** Mathematics Department, **Université Joseph Fourier,** Grenoble, France
Project: Knowledge and strategies of students solving research problems in the classroom (SiRC: Situations Recherches en Classe). Supervisor: Denise Grenier.

2008 **Research internship,** Education and Pedagogy Department**,** UQAM
Project: Anasynthesis as a research method. Supervisor: Rénald Legendre.

2004-2007 **Research Assistant,** Special Education Department, Université de Sherbrooke.

- Project: Links between statistical concepts and processes and mathematical concepts and processes. Supervisor: Prof. Claudine Mary, May-June, 2009.
- Project: Experimentation of new supervision modalities in mandatory activities in the bachelor's degree in special education and psychoeducation. Université de Sherbrooke. Supervisor: Prof. Odile Tessier and Prof. Enrique Correa Molina, October 2004-April 2005.
- Project: Circonference website development: dedicated to mathematical culture and teaching, open to all Université de Sherbrooke Faculty of Education students, Université de Sherbrooke. Supervisor: Prof. Hassane Squalli, 2004-2005

- Project: Study of a preventive student assistant service in mathematics, Université de Sherbrooke. Supervisor: Prof. Hassane Squalli, 2003-2005

2002-2007 **Lecturer,** Université de Sherbrooke

2001-2002 **Secondary teacher**, substitute, CSDM

1999-2007 **Tutoring**, Sherbrooke
Mathematics tutoring for secondary and collegiate students

GRANTS

2016 FRQSC grant, research support for new academics
Primary and secondary school teachers talk about mathematical reasoning: towards enrichment of a conceptual model (Principal Researcher): $39,000

2016. Insight Development Grant, CRSH
Study of the development of meaningful ways of doing mathematics with manipulatives in primary classes (MathéRéaliser Project, Co-researcher): $59,145

2016 FRQNT grant, strategic partnership between research and teaching [Partenariats stratégiques en matière d'enseignement et de recherche]-CFQCU.
Development and implementation of the International Observatory of Algebraic Thinking *[Développement et mise en place de l'Observatoire international de la pensée algébrique (OIPA)]*. (Co-researcher). $29,340

2015 FRQSC grant,
Development of a research network: Perseverance and academic achievement, Périscope Network. [Développement d'un réseau de recherche - Persévérance et réussite scolaires, *Réseau Périscope* (Co-researcher). $720,000

2012 PAFARC grant (UQAM), New researcher: Validation of a conceptual model of mathematical reasoning in teacher discourse: $15,000 and two-class reliefs.

AWARDS, HONORS, AND FELLOWSHIPS

2009 Mobility **Fellowship** (travel outside Quebec) for helping young researchers integrate in the research community (UQAM): $1,000

2008 **Joseph Armand Bombardier**, Ph.D., Fellowship (SSRHC); $90,000.

FQRSC Fellowship (declined): $80,000.

Internship Mobility **Fellowship** (UQAM): $1,000

Third place in **the science popularization** contest of the Faculty of Education, UQAM

2007 **Dieter-Lunkenbein Prize** from the Quebec Mathematical Association [Association Mathématique du Québec (AMQ)] for the best master's thesis in Mathematics Education in Quebec, 2005-2006.

2007 Tuition Exemption **Grant** for the entire duration of doctoral studies (recruitment scholarship) offered by UQAM.

2006 **Banner bearer** at Université de Sherbrooke's graduation ceremony, recognition for best academic record of the class of 2005.

2005 **First class distinction** for outstanding academic results, Master's in Educational Sciences.

2002 Master's Fellowship **FCAR:** $25,000.

2001 Admission Fellowship from the Faculty of Education, Université de Sherbrooke.

Descartes Prize from the Quebec Mathematical Association and the Quebec Mathematics Secondary Teacher Group (Groupe des Responsables en Mathématiques au Secondaire) for the student with the highest level of achievement in mathematics in their class.

1998 **First class distinction** for outstanding academic results, Bachelor's in Education.

RESEARCH GROUPS AND ASSOCIATIONS

2017- ARQ: Association pour la recherche qualitative [Qualitative Research Association]

2015- OIPA: Observation internationale de la pensée algébrique [International Observatory for Algebraic Thinking]

2015- PÉRISCOPE: Plateforme, Échange, Recherche et Intervention sur la SCOlarité: Persévérence Et réussite [Platform, Exchange, Research and Intervention on SCOlarity: Perseverance and Success]

2014- GRUTEAM: Groupe de recherche sur l'utilisation des technologies pour l'enseignement et l'apprentissage des mathématiques [Research group on the use of technology for teaching and learning mathematics]

2004- CMESG: Canadian Mathematics Education Study Group

2004- GDM: Groupe de Didactique des Mathématiques du Québec [Quebec Math Education Group]

PUBLICATIONS

1) PEER-REVIEWED ARTICLES

- **Jeannotte**, D. & Kieran, C. (2017). A conceptual model of mathematical reasoning for school mathematics. *Educational Studies in Mathematics. DOI: 10.1007/s10649-017-9761-8*
- Corriveau, C. & **Jeannotte**, D. (2015). L'utilisation du matériel de mathématique en classe de mathématiques au primaire: quelques réflexions sur les apports possibles. [The use of mathematics manipulatives in primary mathematics classes: some thoughts on possible contributions]. *Bulletin AMQ, LV*(3), 32-49.
- Dufour, S. & **Jeannotte**, D. (2013). La tâche non routinière sous l'angle du contrôle: un exemple en calcul différentiel. [Non-routine tasks from the point of view of control: an example in differential calculus]. *Bulletin AMQ*, *53*(4), 29–43.
- **Jeannotte**, D. (2012). L'interprétation de la lettre en algèbre par des élèves du secondaire au Québec. [Letter interpretation in algebra by Grades 8 and 9 students in Quebec]. *Revue Canadienne des jeunes chercheur(e)s en éducation*, *4*(1), 1-12.

2) PEER-REVIEWED PROCEEDINGS

- **Jeannotte**, D. (2016). Les processus abstraire et généraliser conceptualisés dans une perspective commognitive. [Abstracting and generalizing processes conceptualized from a commognitive perspective]. *Espace mathématique francophone 2015,* Alger, Algeria.
- **Jeannotte**, D. (2014). Processes of mathematical reasoning: framing from math educator discourse. In P. Liljedahl, C. Nicol, S. Oesterle &D. Allan (eds.), *Proceedings of the 38th Conference of the International Group for the Psychology of Mathematics Education and the 36th Conference of the North American Chapter of the Psychology of Mathematics Education* (vol. 6, p. 117). Vancouver, BC.

- **Jeannotte**, D. (2013). Abstracting and generalizing: processes of mathematical thinking. In M. V. Martinez & A. C. Superfin (eds.), *Proceedings of the 35th Annual Meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education* (p. 322). Chicago, Il.
- **Jeannotte**, D. (2012). Le raisonnement mathématique, portrait de la littérature et synopsis d'un modèle. [Mathematical reasoning, portrait of the literature, and synopsis of a model]. In J.-L Dorier & S. Coutat (eds.), Enseignement des mathématiques et contrat social: enjeux et défis pour le 21e siècle. Proceeding *of EMF conference 2012* (p. 2011). Université de Genève, Geneva, Switzerland.
- **Jeannotte**, D. Kieran, C. & Cyr, S. (2012). Composantes du raisonnement mathématique: un aperçu. [Components of mathematical reasoning: an overview.]. In F. Hitt &C. Cortés (eds.), *Formation à la recherche en didactique des mathématiques*. (pp. 72-79), UQAM.
- **Jeannotte**, D., Kieran, C., & Cyr, S. (2010). Réflexion sur le raisonnement en mathématique pour l'enseignant au secondaire. [Reflection on mathematical reasoning for the high school teacher]. In A. Kuzniak &M. Sokhna (eds.), Proceeding *of EMFconference 2009*, Université Cheikh Anta Diop, Dakar, Senegal. Sur CD-Rom, 10 pages.

3) PROCEEDINGS

- **Jeannotte**, D. & MacGarvey, L. (forthcoming). Quantitative reasoning in the early years. Proceedings of the 2017 CMESG meeting, McGill University, Montreal.
- Venant, F., Saboya, M., **Jeannotte**, D. & Dufour, M. (forthcoming). Mathématiciens et didacticiens: regards croisés sur l'activité mathématique. [Mathematicians and math educators: a cross-discipline perspective on mathematical activities]. Proceedings of the 2017 GDM seminar, McGill University, Montreal.
- Longtin, J. & **Jeannotte**, D. (forthcoming). Circonscrire les pratiques enseignantes lors de la pratique du problème ouvert en classe de 6e année du primaire. [Circumscribing teaching practices when using open problems in Grade 6 elementary school]. Proceedings of the 2017 GDM seminar, McGill University, Montreal.
- Camiot, C-A. & **Jeannotte**, D. (2016). Vers une formation en numératie financière. [Towards financial numeracy training]. Proceedings of the GDM seminar, University of Ottawa.
- Kouki, R. Vlassis, J. & Jeannotte, D. (2016). Rapport du groupe les diverses pensées mathématiques. [Working group report on various types of mathematical thinking]. Proceedings of the 2015 EMF conference, Alger, Algeria.
- **Jeannotte**, D. (2015). Proposition d'un modèle de raisonnement mathématique pour l'enseignement et l'apprentissage au primaire et au secondaire dans une perspective commognitive. [Proposition of a mathematical reasoning framework for teaching and learning at the primary and secondary levels in a commognitive perspective]. Proceedings of the 2015 GDM seminar, Université de Sherbrooke.
- **Jeannotte**, D. & Corriveau, C. (2015). Analyse de l'utilisation d'un matériel symbolique en troisième année du primaire : raisonnement mathématique et accompagnement. [Analysis of the use of symbolic manipulatives in Grade 3: mathematical reasoning and intervention]. Proceedings of the 2015 GDM seminar, Université de Sherbrooke.
- **Jeannotte**, D. (2011). L'apport pour la formation et la pratique enseignante : analyse et synthèse de différents modèles de raisonnement mathématique dans la littérature scientifique. [Contribution to teacher training and practice: analysis and synthesis of various mathematical reasoning frameworks in the scientific literature]. In V. Freiman (ed.), L'enseignement des mathématiques dans et à travers des contextes particuliers: quel support didactique privilégier? Proceedings of the 2010 GDM seminar (pp. 273-282), Université de Moncton, NB.
- **Jeannotte**, D. (2004). Une comparaison des erreurs commises en algèbre par des élèves du secondaire d'aujourd'hui et d'autres de la fin des années 70. [Comparison of errors made in algebra by secondary students of today and the late 1970s]. In F. Caron (ed.), Affronter la complexité. Laval University: Proceeding of the 2005 GDM seminar, pp. 115-124.

4) PROFESSIONAL ARTICLES

- Gosselin-Roy, M., Marcil, V., Marcoux, G., Parent V., & **Jeannotte**, D. (2007). Ces abeilles qui font des maths! [Those busy math bees!] *Envol* (138), 17-19.
- **Jeannotte**, D. (2004) Les tuiles algébriques: un matériel concret pour l'apprentissage de l'algèbre. [Algebraic tiles: a concrete manipulative for learning algebra]. *Envol*, (126), 19-24.

PRESENTATIONS

1) GUEST LECTURES

- **Jeannotte**, D. (2016). A conceptual model of mathematical reasoning for school math. Proceedings of the GCEDM meeting, Kingston: Queen's University.
- Corriveau, C., & **Jeannotte**, D. (2016). Le matériel de manipulation au primaire : Quelle place occupe-t-il dans l'activité mathématique des élèves. [Manipulatives in elementary level: What place do they hold in the mathematical activity of students?] Séminaire de didactique des mathématiques, Montréal: UQAM (March, 2016).
- **Jeannotte**, D. (2014). L'entreprise d'une recherche théorique et l'incessant appel des fondements. [The undertaking of theoretical research and the constant call of foundations]. Seminar: *la construction de fondements épistémologiques par les chercheurs en didactique des mathématiques. [Development of epistemological foundations by math education researchers]* Organizer: R. I. Barrera Curin, UQAM.
- **Jeannotte**, D. (2013). Conjecturer et prouver en tant que processus de raisonnement mathématique. [Conjecturing and proving as mathematical reasoning processes]. *Communication to the teacher seminar of the GDM*. Val-d'Or, QC.
- **Jeannotte**, D. Kieran, C., & Cyr, S. (2011). *Un modèle du raisonnement mathématique : un aperçu. [A framework for mathematical reasoning: an overview]*. Plenary presentation. Colloque de didactique des mathématiques, UQAM: March 24-26, 2011.
- 2011, panellists at a round table on mathematical training at the launch of the Grefem research group, UQAM February 4, 2011.
- **Jeannotte**, D. (2008*). L'interprétation de la lettre en algèbre : le cas des élèves du Québec*. [The letter's interpretation in algebra: the case of Quebec students]. Séminaire de l'IREM de Grenoble: November 7 and 8, 2008
- **Jeannotte**, D. (2008) *L'interprétation de la lettre en algèbre et les erreurs commises par des élèves du secondaire : une étude comparative*. [Letter interpretation in algebra and errors made by secondary students: a comparative study]. Séminaire de didactique des mathématiques de l'UQAM: October 6, 2008

2) CONFERENCE PRESENTATIONS

- Venant, F., Saboya, M., **Jeannotte**, D., & Dufour, M. (2017). Mathématiciens et didacticiens: regards croisés sur l'activité mathématique. [Mathematicians and math educators: a cross-discipline perspective on mathematical activities]. GDM 2017, Université McGill, Montréal.
- Longtin, J., & **Jeannotte**, D. (2017). Circonscrire les pratiques enseignantes lors de la pratique du problème ouvert en classe de 6e année du primaire. [Circumscribing teaching practices when using open problems in Grade 6]. GDM 2017, Université McGill, Montréal.
- Corriveau, C., & **Jeannotte**, D. (2017). L'utilisation de tâches mathématiques vue à travers le modèle d'objet frontalier. [The use of mathematical tasks seen through the boundary object concept]. PÉRISCOPE: les passages frontaliers (boundary crossing) entre les pratiques collaboratives de recherche et d'enseignement. Acfas, Université McGill, Montréal.
- Camiot, C-A., & **Jeannotte**, D. (2016). La numératie financière: vers une formation appliquée. [Financial numeracy: towards applied training]. GDM, University of Ottawa.
- Corriveau, C., & **Jeannotte**, D. (2016). L'utilisation du matériel en mathématique : exploration de quelques tâches au 3e cycle du primaire. [The use of manipulatives in math: exploration of a number of tasks in Grades 5 and 6]. AQEP, Sherbrooke (March 2016).
- **Jeannotte**, D. (2015). Raisonnement mathématique : structure et processus dans une perspective commognitive. [Mathematical reasoning: structure and process in a commognitive perspective]. Presentation at Montpellier-Sherbrooke Days, Université de Sherbrooke.
- **Jeannotte**, D. (2015). Proposition d'un modèle de raisonnement mathématique pour l'enseignement et l'apprentissage au primaire et au secondaire dans une perspective commognitive. [Proposal for a mathematical reasoning framework for teaching and learning at the elementary and secondary levels in a commognitive perspective]. GDM, Université de Sherbrooke.
- **Jeannotte**, D., & Corriveau, C. (2015). Analyse de l'utilisation d'un matériel symbolique en troisième année du primaire: raisonnement mathématique et accompagnement. [Analysis of the use

of symbolic manipulatives in Grade 3: mathematical reasoning and intervention]. GDM, Université de Sherbrooke.

- Corriveau, C., & **Jeannotte**, D. (2014). Apprentissage mathématique et matériel de manipulation: Projet MathéRéaliser. [Mathematical learning and manipulatives: MathéRealiser Project]. AMQ Conference, Cégep de l'Assomption
- **Jeannotte**, D. (2014). Processes of mathematical reasoning: Framing from math educator discourse. 38th Conference of the International Group for the Psychology of Mathematics Education and the 36th Conference of the North American Chapter of the Psychology of Mathematics Education. Vancouver, BC.
- **Jeannotte**, D. (2013). L'aspect processuel du raisonnement mathématique. [Process of mathematical reasoning]. In L. Bacon (ed.), Communication GDM. Val-d'Or, QC.
- **Jeannotte**, D., & Dufour, S. (2010) La place du contrôle dans le raisonnement des élèves face à une tâche non routinière. [The place of control in student thinking when performing a non-routine task]. AMQ conference, Cégep de Rimouski: October 22-24.
- **Jeannotte**, D. (2010). L'apport pour la formation et la pratique enseignante: analyse et synthèse de différents modèles de raisonnement mathématique dans la littérature scientifique. [Contribution to teacher training and practice: analysis and synthesis of various mathematical reasoning frameworks in the scientific literature]. GDM, Moncton University: June 2010.
- **Jeannotte**, D., Kieran, C., & Cyr, S. (2009) Réflexion sur le raisonnement en mathématique pour l'enseignant au secondaire. [Reflection on mathematical reasoning for high school teaching]. EMF conference 2009, Dakar: April 6-9, 2009
- **Jeannotte**, D. (2004) L'interprétation de la lettre et les erreurs commises en algèbre par des élèves du secondaire d'aujourd'hui et ceux de la fin des années 70 : une étude comparative. [Letter interpretation and errors made in algebra by secondary school students today from the late 1970s: a comparative study]. GDM, Laval University: May 27-28, 2004
- **Jeannotte**, D. (2002) Les tuiles algébriques : un matériel concret pour l'apprentissage de l'algèbre. [Algebraic tiles: manipulatives for learning algebra]. Congrès du Groupe des responsables en mathématiques au secondaire (GRSM). Laval: May, 2001

3) POSTER PRESENTATIONS

- **Jeannotte**, D., Saboya, M., Venant, F., & Dufour, M. (2017). Mathématiciens et didacticiens: regards croisés sur l'activité mathématique. [Mathematicians and math educators: a cross-discipline perspective on mathematical activities]. 2017 GCEDM Conference, McGill University, Montreal.
- **Jeannotte**, D., & Corriveau, C. (2016). Reasoning and intervention in arithmetic activities: focus on manipulatives, ICME, Hambourg, Allemagne.
- **Jeannotte**, D. (2013). Abstracting and generalizing: processes of mathematical thinking, using anasynthesis to support exploration. 35th Annual Meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education. Chicago, Il.
- **Jeannotte**, D. (2012). Le raisonnement mathématique, portrait de la littérature et synopsis d'un modèle. [Mathematical reasoning, portrait of the literature, and a framework synopsis]. *EMF 2012*. Université de Genève, Genève, Suisse.
- **Jeannotte**, D. (2011). *Processus d'élaboration d'un modèle de raisonnement mathématique*. [Process of developing a mathematical reasoning framework]. Colloque du doctorat réseau 2011, UQTR: August 17-19, 2011.
- **Jeannotte**, D. (2010). *Le raisonnement mathématique comme objet d'étude en éducation : diversité et globalité*. [Mathematical reasoning as a study object in education: diversity and comprehensiveness]. Science Dissemination Contest of the Faculty of Education, UQAM: February 3, 2010.
- **Jeannotte**, D. (2009). *Le raisonnement mathématique comme objet d'étude en éducation : diversité et globalité*. [Mathematical reasoning as a study object in education: diversity and comprehensiveness]. Colloque doctorat réseau, UQAR, Lévis campus: August 19-21, 2009.
- **Jeannotte**, D. (2008). *L'interprétation de la lettre en algèbre et les erreurs commises par des élèves du secondaire*. [Letter interpretation and errors made in algebra by secondary school students]. Science Dissemination Contest of the Faculty of Education, l'UQAM: January 23, 2008.

- **Jeannotte**, D. (2001). *Un dispositif d'enseignement pour les élèves en panne d'apprentissage de l'algèbre au secondaire*. [Teaching device for students with difficulties learning algebra in middle school], Research Days, Université de Sherbrooke: December, 2001.

4) WORKING GROUP PARTICIPATION

- Guillemette, D. & Nicol, C. (2016). Mathematics education and social justice: learning to meet others in the classroom. Proceedings of the CMESG meeting. Kingston: Queen's University.
- Anderson, A & Osana, H. (2015). Early years teaching, learning, and research: tension in adult-child interactions around mathematics. GCEDM. Moncton: Moncton University.
- Hunter, R., Civil, M. Herbel-Eisenmann, B. &Wagner, D. (2014) Mathematical discouse that breaks barriers and creates spaces for marginalized students. PME, Vancouver
- Foote, M., Wager, A., Bartel, T., Edwards, A., Battey, D. & Spencer, J. (2013) Addressing equity and diversity issues in mathematics education. PME-NA, Chicago.
- Masselot, P. Weiss, L.& Lajoie, C. EMF (2012). Analyse de dispositifs et de stratégies de formation initiale et continue des enseignants [Analysis of methods and strategies for initial and in-service teacher training]. University de Genève.
- Pimm, D., Sinclair, N., & Namukasa, I. (2008). Cultures of generality and their associated pedagogies. In P. Liljedahl, S. Oesterle & C. Bernèche.(eds.), Proceedings of the CMESG meeting. (pp. 75-84) Sherbrooke: Université de Sherbrooke.
- Powell, A. & Dawson, A. J. S. (2005). Mathematics education, society and peace. In P. Liljedahl (ed.), Proceedings of the CMESG meeting. (pp. 21-26) Ottawa: University of Ottawa
- Caron, F. & Muller, E (2004). Integrating applications and modelling in secondary and post-secondary mathematics. In E. Simmt & B. Davis (eds.), Proceedings of the CMESG meeting. (pp. 63-80). Québec : Laval University.

RESEARCH SUPERVISION AND MENTORING

2016- Benoit Morand, Master's thesis: Exploration des liens entre différentes composantes du contrôle de l'activité mathématique [Exploration of links between various elements of mathematical control activities] **Thesis supervisor** (**Co-supervisor**: Mireille Saboya).

2016- Christian Boissinotte, Master's thesis: Développement de la pensée algébrique au primaire: analyse des manuels [Development of algebraic thinking in elementary school:: curriculum analysis] **Thesis supervisor** (**Co-supervisor**: Mireille Saboya).

2016 **Steve Tremblay,** Master's thesis: Les rôles de la perception, de la visualisation et des connaissances spatiales dans la compréhension du volume des solides usuels, de ses formules et de son calcul. [The roles of perception, visualization, and spatial knowledge in understanding the volume of common solids and associated formulas and calculations]. **Jury member.**

2014- Judith Longtin, Master's thesis: Les pratiques enseignantes lors de l'utilisation du problème ouvert en classe du primaire [Teaching practices when using open problems in elementary school]. **Thesis supervisor.**

2013-2017 Fleurine Aléo Avomo Mvomo Nzu, Master's thesis: Étude des interactions parents-enfants lors de la réalisation des devoirs au primaire. [Study of parent-child interactions while doing mathematics homework at the elementary level]. **Thesis supervisor** (**Co-supervisor**: Caroline Lajoie)

2015-2017 Sophie Brunet, Master's essay: Développement de situation favorisant le contrôle en algèbre chez les élèves de 2e secondaire [Task sequence development used in algebra control for Grade 8 students]. (Profession thesis), **Essay supervisor**

2016- Stéphanie Sampson (master's student), research assistant: Primary and secondary school teachers talk about mathematical reasoning: towards the enrichment of a conceptual models.

Sarah Dufour (Ph.D. student), research assistant: Primary and secondary school teachers talk about mathematical reasoning: towards the enrichment of a conceptual model

2017- Judith Longtin (master's student), research assistant: Study of the development of meaningful ways of doing mathematics with manipulatives in the primary classroom.

TEACHING EXPERIENCE (Math education)

UQAM

- *M.A., mathematics, mathematics education concentration*

MAT8200- Dynamique des apprentissages en classe de mathématiques, MAT7120-Séminaire de didactique des mathématiques, MAT7194-Didactique de l'algèbre

- *B.A. in kindergarten and elementary school teaching:*

MAT1011-L'activité mathématique, (teaching assistant: Deborah Nadeau, Audrey B. Raymond, Sarah Mathieu Soucy, Fleurine Avomo) MAT1026-Didactique de l'arithmétique au primaire (teaching assistant: François Lagacé).

- *B.A. in mathematics teaching, secondary school:*

MAT2028-Didactique de l'algèbre (Benoit Morand), MAT2024-Didactique des mathématiques I et Laboratoire (Teaching assistants: Marie-Lou Darveau-Turcot, Mélissa Laforest, Antoine Pigeon, Sébastien Fafard Provost)

- *B.A. in special education, secondary school:*

MAT1016-Mathématiques pour l'intervention au secondaire (Teaching assistant, Sarah Mathieu Soucy)

- *B.A. in second language teaching French)*

MAT2300-L'activité mathématique en classe d'accueil et d'immersion

Université de Sherbrooke

- *B.A. in kindergarten and elementary school teaching:*

PRE-103- Initiation à la pensée mathématique au préscolaire, MAP-113- Géométrie au primaire, MAP-333- Arithmétique I au primaire, MAP-343- Arithmétique II au primaire, MAP-412-Arithmétique II au primaire

- *B.A. in special education*

ASM-110- Activités et culture mathématiques, ASM-412- Didactique de la statistique au secondaire, ASM-512- Didactique de l'algèbre

- *B.A. in mathematics teaching, secondary school:*

DMA-300 – Didactique des mathématiques II (géométrie)

CONTRIBUTIONS TO THE CAMPUS COMMUNITY

2015- **Member, Executive Committee**, Mathematics Department, Faculty of Science, UQAM.

2014-2017 **Member, Special Education Program Committee** (bachelor's degree), Faculty of Education, UQAM.

2012- **Member, Kindergarten and Elementary School Teaching Program Committee** (bachelor's degree and certificate), Faculty of Education, UQAM.

2012- **Member, Kindergarten and elementary school teaching pedagogical comity** (bachelor's degree and certificate), mathematics department, UQAM.

2012- **Union representative**, SPUQ, Mathematics Department, UQAM.

2012-2013
2014-2017 **Member, Math Education Library Committee**, Mathematics Department, UQAM.

2013 **Representative of the kindergarten and elementary school teaching program for the visit of CAPFE** (official ministerial organization), UQAM.

Member, Purchasing Subcommittee (teaching supplies), UQAM.

2013 **Member, Selection Subcommittee**, Dieter Lunkenbein 2013 Prize

SERVICE TO THE MATHEMATICS EDUCATION COMMUNITY

2017- **Invited Chairperson** for the working group **Les différentes pensées mathématiques [Various types of mathematical thinking]** (with Isabelle Demonty and Moustapha Ourahay), EMF 2018, Paris

2017 **Invited Chairperson** for the working group **Quantitative Reasoning in the Early Years.** (in collaboration with Lynn MacGarvey), CMESG 2017, McGill University, Montreal

2017 **Peer reviewer:** Educational Studies in Mathematics

2017 **Peer reviewer:** Canadian Journal of Education

2017 **Co-host** half-day workshop, St-Michel's School (Quebec), Grades 3 and 4.

2017 **Co-host** half-day workshop, CSnavigateur (school board), Grades 3 to 6.

2013-2016 **Invited Co-chairperson** of the working group **Les différentes pensées mathématiques et leur développement dans le curriculum** [Various types of mathematical thinking and curriculum development] (with Rahim Kouki and Joëlle Vlassis), EMF 2015, Algeria

2015- **Scientific Committe member: Nouveaux cahiers de recherche en education journal**

2012- **Peer reviewer**: Canadian Journal of Science, Mathematics and Technology Education

2015- **Peer reviewer**: Revue Annales de didactique et de sciences cognitives

2013 **Peer reviewer:** PME-NA, Chicago

2015 **Session president**: PÉRISCOPE conference: méthodologies dérivées de perspectives socioculturelles pour composer avec les enjeux de la recherche en partenariat, Acfas, Montréal: UQAM (May 13).

2014 **Co host** one-day workshop, CSDM (Montreal School Board), Grades 3 and 4.

Nov. 2012 **Session president**: PME-NA 2012, Kalamazoo.

2008-2012 **Copy editor**: Canadian Revue for New Scholars in Education.

2007-2012 **Seminar organizer**: Seminars for mathematics education students 3-4 times per year (Sédim).

July 2009 **Volunteer**: 61st CIEAEM meeting, Université de Montréal.