

CONTACT INFORMATION	Montréal, Québec, Canada. H2V 1Z7 Home: +1-514-419-1457 E-mail: jtremblay@cs.mcgill.ca	
EDUCATION	<p><b>Philosophical Doctorate in Computer Science</b> 2011 - Now  <i>McGill University</i>, Montréal, Québec, Canada  <i>Advisor</i>: Clark Verbrugge  <i>Thesis</i>: Computing Techniques for Game Design Process (provisional)  <i>Expected</i>: Winter 2015</p> <p><b>Master's in Computer Science - Maîtrise en Informatique</b> 2009 - 2011  <i>Université du Québec à Chicoutimi</i>, Chicoutimi, Québec, Canada  <i>Advisor</i>: Bruno Bouchard  <i>Thesis</i>: A New Approach to Dynamic Difficulty Adjustment in Video Games  <i>Semester Abroad</i>: École Supérieure de Génie Informatique (ESGI), Paris, France 2010</p> <p><b>Baccalaureate in Video Game Conception - Bac. en Conception de Jeux Video</b> 2006 - 2009  <i>Université du Québec à Chicoutimi</i>  <i>Minor</i>: Digital Arts  <i>Semester Abroad</i>: University of Guelph, Guelph, Ontario, Canada 2008</p>	
AWARDS	<p><b>Graduate Excellence Fellowship</b> 2015  PhD at McGill University  Assistance in funding new and continuing Graduate students</p> <p><b>Graduate Excellence Fellowship</b> 2014  PhD at McGill University  Assistance in funding new and continuing Graduate students</p> <p><b>Best Paper Award at FDG</b> 2013  PhD at McGill University  Award given to the best paper in its category.</p> <p><b>Lorne Trottier Science Accelerator Fellowship</b> 2012  PhD at McGill University  Award given to promising graduate students</p> <p><b>Computer Science Top-up Award</b> 2012  PhD at McGill University  Funding for student with major scholarship such as FQRNT or NSERC</p> <p><b>Graduate Excellence Fellowship</b> 2012  PhD at McGill University  Assistance in funding new and continuing Graduate students</p> <p><b>Lorne Trottier Science Accelerator Fellowship</b> 2012  PhD at McGill University  Award given to promising graduate students</p> <p><b>Graduate Excellence Fellowship</b> 2011  PhD at McGill University  Award given to promising graduate students</p>	

	<b>Fonds Québécois de la Recherche sur la Nature et les Technologies (FQRNT) - B2</b>	2011
	PhD at McGill University Major scholarship towards completion of doctoral studies	
	<b>Excellence in Computer Science</b>	2010
	Master's at Université du Québec à Chicoutimi Award given to best student in computer science at Master's level	
	<b>UQAC's Long Term Development</b>	2010
	Master's at Université du Québec à Chicoutimi Award given to promising students	
PROFESSIONAL EXPERIENCES	<b>Course Coordinator - COMP 202</b>	2014-2015
	<i>McGill University</i> Coordinating course lecturers and teacher assistant Developed the course syllabus Assuring teaching quality	
	<b>Course Lecturer</b>	2013-2015
	<i>McGill University</i> Taught COMP 202 - Foundations of programming Entry level programming, intermediate oriented object concepts and introduction to principals of computing to undergraduate students. Fall 2013 - 2 sections (400 students, 17 teacher assistants) Winter 2014 - 1 section (150 students, 11 teacher assistants) Fall 2014 - 1 section (250 students, 21 teacher assistants) Winter 2015 - 1 section (120 students, 14 teacher assistants)	
	<b>Course Lecturer</b>	2010
	<i>Université du Québec à Chicoutimi</i> Designed and taught 15 lectures for 8PRO140 - Introduction to visual programming Developed online tutorial and teaching material to help students grasp programming concepts. Taught entry level programming and intermediate oriented object concepts to undergraduate students.	
	<b>Programmer</b>	2007
	<i>CEBFOB - Baie-Comeau, Québec, Canada</i> Planned, programmed, designed and tested "Maître des ponceaux ver. 2.0" software	
PUBLICATIONS	<b>Conference Paper</b>	
	J. Campbell, J. Tremblay, and C. Verbrugge. Clustering Player Paths. In <i>FDG 2015 - Foundation of Digital Games</i> , 2015. [Peer-reviewed]	
	Q. Xu, J. Tremblay, and C. Verbrugge. Generative Methods for Guard and Camera Placement in Stealth Games. In <i>Proceeding of the Tenth Annual AAAI Conference on Artificial Intelligence and Interactive Digital Entertainment, AIIDE</i> , 2014. [Peer-reviewed]	
	J. Tremblay, P. A. Torres, and C. Verbrugge. An Algorithmic Approach to Analyzing Combat and Stealth Games. In <i>CIG 2014 - International conference on Computational Intelligence and Games</i> , 2014. [Peer-reviewed]	
	J. Tremblay, P. A. Torres, and C. Verbrugge. Measuring Risk in Stealth Games. In <i>FDG 2014 - Foundation of Digital Games</i> , 2014. [Peer-reviewed]	
	J. Tremblay, C. Dragert, and C. Verbrugge. Target Selection for AI companions in FPS	

games. In *FDG 2014 - Foundation of Digital Games*, 2014. [Peer-reviewed]

A. Yahyavi, J. Tremblay, C. Verbrugge, and B. Kemme. Towards the Design of a Human-Like FPS NPC using Pheromone Maps. In *International Games Innovation Conference, IGIC*, 2013. [Peer-Reviewed]

J. Tremblay and C. Verbrugge. Adaptive Companions in FPS Games. In *FDG 2013 - Foundation of Digital Games*, pages 229–236, 2013. [Peer-reviewed] **Best Paper Award**

J. Tremblay, B. Bouchard, and A. Bouzouane. Adaptive Game Mechanics for Learning Purposes - Making Serious Games Playable and Fun. In *CSEDU 2010 - Second International Conference on Computer Supported Education*, pages 465–470, 2010. [Peer-reviewed]

### Workshop

J. Tremblay and C. Verbrugge. An Algorithmic Approach to Decorative Content Placement. In *Proceeding of the 2015 Workshop on Experimental AI In Games, EXAG*, 2015. [Peer-reviewed]

J. Tremblay, and C. Verbrugge. A Game Genre Agnostic Framework For Game-Design. In *Proceeding of the 2015 Fourth Workshop on Games and Software Engineering, GAS*, 2015. [Peer-reviewed]

J. Tremblay, A. Borodovski and C. Verbrugge. I Can Jump! Exploring Search Algorithms for Simulating Platformer Players. In *Proceeding of the 2014 First Workshop on Experimental AI In Games, EXAG*, 2014. [Peer-reviewed]

Q. Xu, J. Tremblay, and C. Verbrugge. Procedural Guard Placement for Stealth Games. In *Proceeding of the 2014 Fifth Workshop on Procedural Content Generation in Games, FDG*, 2014. [Peer-reviewed]

J. Tremblay. Improving Behaviour and Decision Making for Companions in Modern Digital Games. In *Proceeding of the 2013 Doctoral Consortium at the Artificial Intelligence and Interactive Digital Entertainment (AIIDE)*, 2013. [Peer-reviewed]

J. Tremblay, P. A. Torres, N. Rikovitch and C. Verbrugge. An Exploration Tool for Predicting Stealthy Behaviour. In *Proceeding of the 2013 Second AIIDE Workshop on Artificial Intelligence in The Game Design Process*, 2013. [Peer-reviewed]

### Book Chapter

J. Tremblay, B. Bouchard, and A. Bouzouane. Understanding and Implementing Adaptive Difficulty Adjustment in Video Games. In IGI Global, editor, *Algorithmic and Architectural Gaming Design: Implementation and Development*, pages 82–106. 2011. [Peer-reviewed]

PRESENTATIONS	<b>Clustering Player Paths</b> FDG, Asilomar Conference Grounds in Pacific Grove, CA, USA	2015
	<b>Algorithm?</b> <i>SUS Academic Week</i> , McGill, Montreal, Canada	2015
	<b>An Algorithmic Approach to Analyzing Combat and Stealth Games</b> <i>CIG</i> , Dortmund, Germany	2014
	<b>From Skyrim to Metal Gear Solid, a Buddy AI journey</b> <i>Tech-talk</i> at Ubisoft, Montreal, Canada	2014
	<b>Measuring risk in stealth games</b> FDG, Between Florida, USA and Cozumel, Mexico	2014

<b>Target selection for AI companions in FPS games</b> FDG, Between Florida, USA and Cozumel, Mexico	2014
<b>Procedural guard placement for stealth games</b> FDG, Between Florida, USA and Cozumel, Mexico	2014
<b>An Exploration Tool for Predicting Stealthy Behaviour</b> IDPV, AIIDE, Boston, United States of America	2013
<b>An Exploration Tool for Predicting Stealthy Behaviour</b> McGill University, Montréal, Québec, Canada	2013
<b>Adaptive Companions in FPS Games</b> FDG, Chania, Crete, Greece	2013
<b>Adaptive Companions in Games</b> McGill University, Montréal, Québec, Canada	2013
<b>The Meaning of Play</b> Riverview Center, Montréal, Québec, Canada	2011
<b>Dynamic Difficulty Applied to Serious Games</b> Montréal International Game Summit, Montréal, Québec, Canada	2010
<b>Adaptive Serious Games</b> Conference on Computer Supporter Education, Valencia, Spain	2010

## SERVICES

<b>Reviewer</b> Experimental Artificial Intelligence in Games (EXAG)	2014-2015
<b>President of Computer Science Graduate Society (CSGS)</b> <i>McGill University</i> Coordinating the society and its member Developed relationships with different university organisations e.g. PGSS, SOCS, CSUS, etc.	2013-2015
<b>VP Social CSGC</b> <i>McGill University</i> Organized various activities for graduate students at McGill and created CSGC's website	2012
<b>Bureau Voyage Executive (Student Travel Association)</b> <i>Université du Québec à Chicoutimi</i> Organized various activities for students, such as an all included trip to Toronto	2010-2011
<b>Teaching Assistant</b> Corrected and graded assignments, and taught tutorials for graduate and undergraduate level courses. <i>McGill University</i> Modern Computer Games - COMP-521	2007-2013 2013
<i>Université du Québec à Chicoutimi</i> Computer-based Animation (Animation par ordinateur) - 8TRD137 Video Games Conception (Réalisation de jeu vidéo) - 8GIF180 Video Games Design (Conception de jeux vidéo) - 8GIF150 Oriented Object (C++ Programmation visuelle) - 8PRO114	2011 2009 2008 2007

LANGUAGES

**French**

Mother tongue

**English**

Excellent speaking, reading, writing and listening

REFERENCES

Available upon request