

Anne-Marie Burns

Language

French	Mother language	<i>I completed all my pre-university degrees in French.</i>
English	Fluent	<i>I completed my university studies and wrote my master thesis in English.</i>
Italian	Beginner	<i>I did a 3 months scholar internship in Italy.</i>

Education

- 2006 **Master of Arts**, *McGill University*, Montreal, Quebec, Canada.
Cumulative Grade Point Average (CGPA): 3.68/4
Specialization: Music Technology
Thesis: *Computer Vision Methods for Guitar Fingering Recognition*
Supervisor: Prof. Marcelo M. Wanderley
See <http://www.music.mcgill.ca/~amburns/masterproject/>
- 2003 **Bachelor of Sciences**, *McGill University*, Montreal, Quebec, Canada.
CGPA: 3.20/4
Major Concentration: Computer Sciences
Minor concentration: Music Technology
- 1999 **DEC (Diplôme d'études collégial / Cegep diploma)**, *Bois-de-Boulogne college*, Montreal, Quebec, Canada.
Specialization: Computer Science Technology, software development option
- 1996 **DES (Diplôme d'étude secondaire / High School diploma)**, *Curé-Antoine-Labelle High School*, Laval, Quebec, Canada.
"Douance" program (introduction to project management, project management I et II)

Awards and Scholarships

- June 2006 **Alma Mater Student Travel Grant (reward for achievements in attending a conference)**, *McGill University*, Montreal, Quebec, Canada, 750\$can.
- May 2005 **Alma Mater Student Travel Grant**, *McGill University*, Montreal, Quebec, Canada, 1000\$can.
- Fall 2004 **Study Abroad Bursary**, *Italian Exterior Ministry*, Italy, 1859,25 euros.
- Fall 2004 **Study Abroad Bursary**, *Quebec Education Ministry*, Quebec, Canada, 2681.71\$can.
- 1999 **First Class Honor**, *collège de Bois-de-Boulogne*, Montreal, Quebec, Canada.
- 1999 **Canadian Governor General's Academic Medal**, *collège de Bois-de-Boulogne*, Montreal, Quebec, Canada, 500\$can.
- 1999 **Academic Bursary**, *Caisse Populaire Desjardins Henri-Bourassa*, Montreal, Quebec, Canada, 500\$can.
- 1999 **"Prix Chapeau les filles"**, *Quebec Education Ministry*, Quebec, Canada, 500\$can.
- 1996 **First Class Award Chemistry 536**, *Curé-Antoine-Labelle High School*, Laval, Quebec, Canada.

1996 **Social Involvement Mention**, *Curé-Antoine-Labelle High School*, Laval, Quebec, Canada.

Research Interests

My research interests are in human-computer interaction and more specifically in researches that try to replace the keyboard and mouse unidirectional way to interact with computers by bi-directional multimodal interaction ways that respect the human natural manipulative and communicative skills. Up to now, I've been interested in ways to capture human gesture using sensor technology and more specifically computer vision.

Publications

- Burns, A.-M., & Mazzarino, B. (2006). Finger tracking methods using EyesWeb. In S. Gibet, N. Courty, & J.-F. Kamp (Eds.), *Gesture in human-computer interaction and simulation - gesture workshop 2005 revised selected papers* (Vol. LNAI 3881, pp. 156–167). Berlin, Germany: Springer Verlag.
- Burns, A.-M., & Wanderley, M. M. (2006). Computer vision method for guitarist fingering retrieval. In *Sound and music computing* (pp. 1–7). Marseille, France.
- Burns, A.-M., & Wanderley, M. M. (2006). Visual methods for the retrieval of guitarist fingering. In *New interface for musical expression 2006* (pp. 196–199). Paris, France.

Research Experience

- Winter 2006 **Research Intern**, *Pôle Cindyniques, École National Supérieur des Mines de Paris*, Sophia Antipolis, France.
- Research and development on the usage of computer vision to detect and track hazardous materials transport trucks.
- Fall 2004 **Research Intern**, *Laboratoire InfoMus, DIST-University of Genoa*, Genoa, Italy.
- Research and experimentation on fingertips tracking methods using the EyesWeb platform;
 - Development of new EyesWeb blocks for fingertips tracking.

Teaching Experience

- Winter 2005 **Teaching Assistant - Music and Audio Computing 2**, *McGill University*, Montreal, Quebec, Canada.
- Supervise computer laboratory assignments;
 - Grade assignments.
- Winter 2004 **Teaching Assistant - Introduction to Digital Audio**, *McGill University*, Montreal, Quebec, Canada.
- Supervise computer laboratory assignments;
 - Grade assignments.

Professional Experience

- 2002 - 2004 **Computer Room Administrator**, *Marvin Duchow Music Library, McGill University*, Montreal, Quebec, Canada.
- Provide technical help to students;
 - Ensure computers and software functionality;
 - Co-ordinate counselors meeting;
 - Recommend software and hardware buys.
- 1999 - 2001 **Project Leader**, *Centre éducation technologie, Collège de Bois-de-Boulogne*, Montreal, Quebec, Canada.

- Develop and analyze web-based applications for teaching purpose;
- Interact with pedagogical counselors and teachers;
- Co-ordinate developers team work.

See <http://www.colvir.net>
and <http://ntic.org>

1997 - 2006 **Summer camp counselor**, *Internet, Multimedia and Computer camps, Summer Day Camps, Cegep Montmorency, Laval, Quebec, Canada.*

- Organize and lead daily sportive and computer activities;
- Teach computer applications.

I received three awards from the summer camp direction during my career: "homage" in 2006 for general achievements in career, "devotion" in 2004 for personal engagement and time investment toward the summer camp direction, employees and kids, and "planning" in 1998 for the best summer activities organization.

References available on request