

David Bouchard
david.bouchard@ryerson.ca
<http://www.deadpixel.ca>
(416) 845-0337

Education

2005 – 2007 **Master of Science in Media Arts and Sciences** (M. Sc.), Massachusetts Institute of Technology (MIT), Media Laboratory
August 2007 **Interactive Screens** intensive program, Banff Center for the Arts (Scholarship recipient)
2001 – 2004 **Bachelor of Computer Science** (B. Comp. Sc.), Major in Digital Image and Sound, Concordia University
1997 – 1999 **DEC in Cinema**, Cégep de St-Jérôme

Languages

Spoken and written French (native), English (fluent)
Programming Java/Processing, C, C++, Objective-C, Python, Ruby, PHP, PureData, MAX/MSP

Teaching

Fall 2008 – present **Instructor**, Ryerson University, School of Image Arts, New Media option
• Class: Data Visualization and Generative Processes (MPM35)
• Class: Introduction to Computation for Experience Design (MPM16B)
Winter 2008 - present **Part-time Faculty**, Canadian Film Center (CFC) Media Lab IAEP program
• Provide guidance during the critique and conceptualization phase as well as technical advice and support during the prototype production process.
Fall 2006 **Teaching Assistant**, MIT Media Laboratory
• Class: Ambient Intelligence, instructor: Pattie Maes
Feb 2007 **Workshop**, AudioPint: open platform for musical expression, with David Merrill and Ben Vigoda, MIT Media Laboratory
• One-day workshop in which participants built their own AudioPint
2004 **Teaching Assistant**, Concordia University
• Class: Languages of Programming, instructor: Jason Lewis
2003 – 2004 **Tutor**, Computation Lab, Concordia University
• Ran a Java/Processing programming clinic for students within the Fine Arts department

Exhibits

2009 **Traces**, generative graphics, INIT LIVE 09, Toronto, Canada
2009 **Reeds**, large scale realtime outdoors projection, INIT LIVE 09, Toronto, Canada
2007 **Embodied Emergence**, wooden blocks and electronics, COLLISION 11, Cambridge, Massachusetts.
2007 **Listening Table**, interactive glass coffee table with embedded LED display, installed at the MIT Media Laboratory
2006 **Landmark Interactive Bus Stop** with the MIT Mobile Experience Group, Parc de La Villette, Paris, France.
2006 **Augmented Mirror**, interactive mirror display, Moda E Technologia, Milan, Italy
2005 **Autopportrait.org**, java applet for Code, an online net-art exhibit hosted by year01.com
2004 **The Dandelion Field**, interactive video installation, CAFKA 2004, Kitchener, Ontario

Publications

- 2008 *Embodied Emergence: Distributed Computing Manipulatives*, with Pattie Maes, International Symposium on Electronic Art (ISEA) 2008, Singapore.
- 2007 *AudioPint: An Open-Source Hardware Platform for Musical Invention*, with David Merrill and Ben Vigoda, PDCon'07 Pure Data Conference, Montreal, Canada
- 2004 *Alien Letter Forms: An Ecosystem for Evolving Texts*, with Jason Lewis, COSIGN 2004, Computational Semiotics for Games and New Media, Split, Croatia

Work in Progress

- 2010 **Sick Kids Waiting Room**, interactive generative graphics, with Tom Kuo and Alex Kurina
- 2009–2010 **Mirror Tower**, a kinetic interactive installation funded by the Canada Council for the Arts
- 2009–2010 **Generative Inkblots** for custom furniture, in collaboration with New Elements Design studio.

Work Experience

- 2009 – present **InteraXon**, <http://www.interaxon.ca>
- Designer and software developer for brainwave-controlled interactive exhibits
- 2009 – present **ESKI Studio**, <http://www.eskistudio.com>
- Electronics designer and firmware developer
- Winter 2009 **CIEO Creative**, <http://www.cieocreative.com>
- Electronics designer for toy prototypes
- 2007 – 2008 **Solar Collector**, <http://www.solarcollector.ca>, client: Gorbet Design Inc.
- Designed and fabricated the networked control electronics as well the software to communicate with the sculpture.
- April 2008 **WSIB Living Tribute**, <http://www.prevent-it.ca>, client: DraftFCB / Pixel Farmers
- Designed a Processing applet which runs both on the WSIB website and on the Living Tribute sculpture installed in the WSIB lobby.
- 2007 – 2009 **Thin Air** and **Relay** exhibits, client: Nina Levitt
- Developed motion-actuated air-blowers, electronic augmented suitcases and networked lighting
- Fall 2007 **Siftable Computing** project, client: MIT Media Laboratory
- Production of 24 *Siftable* computer units, troubleshooting and debugging
- 2005 – 2007 **Research Assistant**, Ambient Intelligence Group, MIT Media Laboratory
- Contributed to the group's common research projects
 - Gave numerous demos of the group's work to sponsors and visitors
- 2006 **MIT Design Laboratory**, Mobile Experience group
- Design and production of the Landmark Interactive Bus Stop exhibit
- 2004 **Java Programmer**, OBX Labs, <http://www.obxlabs.net>
- Foundation and development work on the NextText Java library
 - Video recognition software for the Intralocutor project
 - Integration work for the CitySpeak project
- 2004 **Technological Watch**, Centre Inter-universitaire des Arts Médiatiques (CIAM)
- Redaction of a report on real-time video as an input device for interactive art
- 2004 **Flash programmer**, Bioteknica Virtual Laboratory, <http://www.bioktenica.org>
- 2003 – 2004 **Digital Media Student Association** at Concordia University, president
- 1999 – 2000 **Les Productions Bonaparte**, independent short video production

**References available on request.*