

Warren J. Code

- CONTACT INFORMATION Department of Mathematics Voice: (604) 731-8826
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Vancouver, BC V6T1Z2 Canada
- RESEARCH INTERESTS University Mathematics Education, Optimal Control, Impulsive Systems
- EDUCATION **PhD, University of British Columbia**, Vancouver, Canada (in progress)
 - Stabilization and Optimal Control of Measure-driven Impulsive Systems
 - Supervisor: Philip Loewen
 - Start date: September, 2004
MSc, University of Saskatchewan, Saskatoon, Canada (October 2003)
 - Sturm-Liouville Problems w/ Eigenparameter-dependent Bdy Conditions
 - Supervisor: Patrick Browne
BSc, University of British Columbia, Vancouver, Canada (May 2001)
 - Honours degree in Mathematics, Minor in Physics
- PUBLICATIONS Code, Warren J.; Loewen, Philip D. *Necessary conditions for optimal control of impulsive systems driven by a vector-valued measure*. Article in preparation.
- Code, Warren J.; Silva, Geraldo N. *Discrete approximation and necessary optimality conditions for measure-driven optimal impulsive control*. Article in preparation.
- Code, Warren J.; Silva, Geraldo N. *Closed loop stability of measure-driven impulsive control systems*. To appear in *J. Dynam. Control Systems*.
- Code, Warren J.; Silva, Geraldo N. *Stabilization of certain control-affine measure-driven impulsive control systems*. *Int. J. Math. Stats.* 5 (2009), no. A09, to appear in Special Issue “Generalized Differentiation, Variational Analysis and Mathematical Control Theory – a 60th Birthday Tribute to Boris S. Mordukhovich.”
- Binding, Paul A.; Browne, Patrick J.; Code, Warren J.; Watson, Bruce A. *Transformation of Sturm-Liouville problems with decreasing affine boundary conditions*. *Proc. Edinburgh Mathematical Society.* 47 (2004), no. 3, 533–552.
- Code, Warren J.; Browne, Patrick J. *Sturm-Liouville problems with boundary conditions depending quadratically on the eigenparameter*. *Journal of Mathematical Analysis and Applications.* 309 (2005), no. 2, 729–742.

University of Saskatchewan, Saskatoon, Canada

Web Course Developer 3 co-op terms then part time, 1999 to 2003

- Mathematics education websites targeting the transition from secondary school to university mathematics, including Math Readiness Course, Math Foundations Course, Conic Sections Course and Encryption Course.
- Supervisor: Keith F. Taylor (currently Associate VP at Dalhousie)
- Development of interactive Java applets.
- Web site design, implementation and maintenance (HTML/Perl/CGI).
- Supervision of junior programmers working on existing codebase.

Graduate Teaching Assistant 4 semesters, Sept 2001 to Apr 2003

- Grading and tutoring for undergraduate mathematics courses.

Federal Department of Fisheries and Oceans, Saanich, BC Canada

Research Assistant, Acoustics Group co-op term, Jan-Apr 1998

- Data processing, analysis and visualization for research scientists studying bubble activity and air-sea energy exchange.
- Work done in **MATLAB**.

SERVICE

Mathematics Department, University of British Columbia

- Math Grad Student Organization, President (Founder) Oct 2008 to present
- Graduate Affairs Committee, Student Rep. Oct 2007 to Sep 2008
- Department Head Search Committee, Student Rep. Spring 2007
- Graduate Student Ombudsperson Sept 2006 to Feb 2009
- Graduate Student Seminar Organizer Sept 2006 to Apr 2007

UBC Graduate Student Society Councillor July 2007 to July 2008

Euclid Mathematics Contest Grader, British Columbia 2006, 2007, 2008

Canadian Mathematical Society May-June 2001

- Assistant to Meeting Organizers (CMS and local) for CMS Summer Meeting at the University of Saskatchewan, providing audio-visual & technical support.

TECHNICAL SKILLS

Highly skilled with computer and internet applications at the user and programmer level, with some familiarity at the administrator level.

- **MATLAB** experience: data processing, visualization, control systems, System Identification Toolbox
- Programming: Java, Perl, HTML, C++
- Applications: \LaTeX , $\text{BIB}\TeX$, Microsoft Office, OpenOffice, Maple
- Operating Systems: Windows, Mac OS-X, UNIX (some Linux, BSD)

CITIZENSHIP

Canada

ADDITIONAL LANGUAGES

French