

JOEL DANIEL GLANFIELD

Contact information available upon request.

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Website: <http://www.joelglanfield.com>

EDUCATION

Dalhousie University, Halifax, Nova Scotia

Ph.D Student, Computer Science

2008-Present

Focus: Network Security Visualization

Funding: NSERC, Canada. Department of Homeland Security (DHS), USA.

Brock University, St. Catharines, Ontario

M.Sc. in Computer Science

2008

Thesis: "Towards Automated Derivation in the Theory of Allegories"

Funding: NSERC, Canada.

Brock University, St. Catharines, Ontario

B.Sc. Computer Science

2006

Honors Thesis: "ReWiRe: Reasoning With Relations"

AWARDS

NSERC PGS-D, Dalhousie University

September 2008 – August 2011

NSERC CGS-M, Brock University

September 2007 – August 2008

Ontario Graduate Scholarship, Brock University

September 2007 – August 2008

- o Awarded but declined (due to receiving NSERC)

Distinguished Graduating Student Award, Brock University

2006 – 2007

Dean's List, Brock University

2006 – 2007

Dean's List, Brock University

2005 – 2006

Acres International Award

2004 – 2005

Dean's List, Brock University

2003 – 2004

Brock Returning Scholars Award

2003 – 2004

Dean's List, Brock University

2002 – 2003

Brock Returning Scholars Award

2002 – 2003

TEACHING EXPERIENCE

Brock University, St. Catharines, Ontario

Instructor - Computer Science 2P03 – "Advanced Data Structures"

2008

Developed syllabus and overall course structure, and administered all grades.

Brock University, St. Catharines, Ontario

Instructor - Computer Science 1P02 – "Introduction to Computer Science"

2008

Developed syllabus and overall course structure, and administered all grades.

Brock University, St. Catharines, Ontario

Instructor - Computer Science 1P03 – "Data Structures and Abstraction"

2007

Developed syllabus and overall course structure, and administered all grades.

Brock University, St. Catharines, Ontario

Teaching Assistant

2003 - 2007

Conducted lab demonstrations, met with students upon request, and graded various assignments and examinations.

CONFERENCES PAPERS & PRESENTATIONS

- J. Glanfield**, D. Paterson, C. Smith, T. Taylor, S. Brooks, C. Gates, and J. McHugh
FloVis: Leveraging Visualization to Protect Sensitive Network Infrastructure.
To Appear at the NATO Symposium on Information Assurance and Cyber Defense.
Antalya, Turkey. April 26-27, 2010. **2010**
- O. McCusker, **J. Glanfield**, S. Brunza, C. Gates, J. McHugh, and D. Paterson
Combining Trust and Behavioral Analysis to Detect Security Threats in Open Environments.
To Appear at the NATO Symposium on Information Assurance and Cyber Defense.
Antalya, Turkey. April 26-27, 2010. **2010**
- O. McCusker, B. Gittins, **J. Glanfield**, S. Brunza, and S. Brooks
The Need to Consider Both Object Identity and Behavior in Establishing the Trustworthiness of Network Devices within a Smart Grid.
To Appear at the 6th Annual Cyber Security and Information Intelligence Research Workshop.
Oakridge, Tennessee. April 21-23, 2010. **2010**
- J. Glanfield**, S. Brooks, T. Taylor, D. Paterson, C. Smith, C. Gates, and J. McHugh
OverFlow: An Overview Visualization for Network Analysis.
In *Proceedings of the 6th International Workshop on Visualization for Cyber Security (VizSec).*
Atlantic City, NJ. October 11, 2009. **2009**
- T. Taylor, D. Paterson, **J. Glanfield**, C. Gates, S. Brooks, and J. McHugh
FloVis: Flow Visualization System.
In *Proceedings of the Cybersecurity Applications and Technologies Conference for Homeland Security (CATCH).* Washington, DC. March 3-4, 2009. **2009**

CONFERENCES ABSTRACTS & PRESENTATIONS

- D. Paterson, T. Taylor, **J. Glanfield**, C. Gates, S. Brooks, and J. McHugh
Activity Plots: A Multi-entity Time Series Visualization.
Presented at FloCon 2009.
Scottsdale, AZ. January 12-15, 2009. **2009**
- T. Taylor, S. Brooks, **J. Glanfield**, D. Paterson, C. Gates, and J. McHugh
FloVis: A NetFlow Visualization Tool.
Presented at FloCon 2009.
Scottsdale, AZ. January 12-15, 2009. **2009**
- T. Taylor, S. Brooks, **J. Glanfield**, D. Paterson, C. Gates, and J. McHugh
NetBytes Viewer: An Entity-based Visualization Tool.
Presented at FloCon 2009.
Scottsdale, AZ. January 12-15, 2009. **2009**
- Joel Glanfield**
Computable Aspects of the Theory of Allegories.
Presented at RelMiCS/AKA: Relations and Kleene Algebra in Computer Science.
Frauenwörth, Germany. April 2008. **2008**
- Joel Glanfield**
The Theory of Allegories and Automated Proof Generation.
Presented at Mapping the New Knowledges.
Institutional conference held at Brock University, St. Catharines, Ontario. **2008**
- Joel Glanfield**
Computable Aspects of the Theory of Allegories.
Presented at SQRL Seminar Series.
Guest speaker at a seminar held at McMaster University, Hamilton, Ontario. **2007**

Joel Glanfield*Interactive Research and Program Correctness.**Presented at Mapping the New Knowledges.*

Institutional conference at Brock University, St. Catharines, Ontario.

2007**Joel Glanfield***RelAPS: A Proof System for Relational Categories.**Presented at RelMICS/AKA: Relations and Kleene Algebra in Computer Science.*

Manchester, UK. August 2006.

2006

CONFERENCES POSTERS

D. Paterson, **J. Glanfield**, C. Smith, T. Taylor, S. Brooks, C. Gates, and J. McHugh*FloVis: Flow Visualization System.*6th International Workshop on Visualization for Cyber Security (VizSec).

Atlantic City, NJ. October 11, 2009.

2009

CONFERENCES COMMITTEES

Program Committee Member

7th International Workshop on Visualization for Cyber Security (VizSec).

Ottawa, Ontario, Canada. September 14, 2010.

2010

UNDERGRADUATE RESEARCH EXPERIENCE

Brock University, St. Catharines, Ontario

Research Assistant – Dr. Michael Winter

Researched parser generation, relational proof systems, and interface design while developing an interactive proof system.

2004 – 2006

RELATED WORK EXPERIENCE

Dromey Design Inc.

St. Catharines, Ontario

Programmer

Designed and implemented various modules for an electrical engineering distribution package.

January 2004 – September 2004

SERVICE

Brock University, St. Catharines, Ontario

Representative - Graduate Students' Association

Represented graduate students in computer science while helping to promote the social aspects of postgraduate studies.

January 2006 – August 2007

Brock University, St. Catharines, Ontario

Summer Camp Demonstrator

Demonstrated various software programs to youth attending a robotics camp at Brock University, St. Catharines, Ontario. The main goal was to generate excitement about computing in general.

Summer 2006

Brock University, St. Catharines, Ontario

ACM Chair – Brock Chapter

Helped plan and organize activities and programming contests for students in computer science.

September 2004 – August 2005