# Tim Ribaric

## Curriculum Vitae

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## Work Experience

## Professional

June 2006 - Digtial Services / Liaison Librarian, BROCK UNIVERSITY, St Catharines ON.

Present Duties include development of web tools and services. Ensuring continual access to a collection of approximately 80,000 electronic resources. Responsible for assessing point of failure situations with end users and for staff training in areas of developing technologies. Developing software and creating additional functionality for web-based services. Administrator of the Brock University Digital Repository http://dr.library.brocku.ca and technical contact for Scholarly Journal @ Brock University http://journals.library.brocku.ca. In charge of collection development and liaison with the Computer Science and Philosophy department. Obtained rank of Librarian III April 1, 2013.

### Limited Term

July 2018 - Acting Head, Map, Data, GIS Library/Digital Scholarship Lab, Brock Uni-December VERSITY, St Catharines ON.

Duties included supervision of 5 staff members and daily activity of branch library. Alongside cross campus team bootstrapping the creation of the Brock University Digital Scholarship Lab.

July 2014 – Acting Head, Library Systems and Technologies, Brock University, St August 2015 Catharines ON.

> A limited-term secondment. Duties include supervising daily activities of 5 staff members and 1 contract student position. Representative to other staff groups within the Library. Making decisions on the future developments of infrastructure, drafting policy and strategic planning documents. Postponed sabbatical to fill this appointment.

## Pre-Professional

May 2005 - Library Assistant III, TAYLOR LIBRARY, UNIVERSITY OF WESTERN ONTARIO, April 2006 London ON.

Responsible for Reserve Collection and staffing Reference Desk.

September MLIS Internship, Taylor Library, University of Western Ontario, 2005 - April London ON.

2005 Responsible for operation of the 'Get It' system and numerous instructional initiatives. Front line contact person when technical problem developed with the OpenURL resolver.

## Education

- 2017 Master of Computer Science, *Brock University*, St. Catharines ON, Recipient of Distinguished Graduate Student Award. Thesis: Elliptic Curve Cryptography using Computational Intelligence. http://hdl.handle.net/10464/12832
- 2006 Masters of Library and Information Science, University of Western Ontario, London ON.
- 2003 Honors Bachelor of Science Computer Science, University of Western Ontario, London ON.
  Minor in Philosophy

## **Publications**

## **Book Chapters**

- 2016 "C" In B. Thomsett-Scott (Ed) Librarian's Introduction to Programming Languages. Lanham MD: Rowman & Littlefield. http://hdl.handle.net/10464/13594
- "Collegial Self-Governance for Professional Librarians: A Look at the Establishment of Library Council at Brock University" In M. Kandiuk & J. Dekker (Eds.), In Solidarity: A look at the History of the Library Labour movement in Canada. Sacramento CA: Litwin Books. http://hdl.handle.net/10464/6005

### Journals & Other Works

- 2019 More on university librarians. Editorial. University Affairs, September 2019. https://www.universityaffairs-digital.com/universityaffairs/201905/MobilePagedArticle.action?articleId=1514254
- 2018 "Redux: Tabulating Transactions with Raspberry Pi and Visualizing Results", code4Lib Journal, Issue 40, May 7. (Peer Reviewed) http://journal.code4lib.org/articles/13385
  - "Codifying Academic Freedom: An Examination of Collective Agreements for Librarian Specific Language" Regina SK. May 30. Canadian Association of Professional Academic Librarians Annual Conference. (Peer Reviewed) http://hdl.handle.net/10464/13962
  - "Canadian Association of University Teachers Bargaining Advisory: Bargaining Parity for Librarians & Archivists." (Co-Authored)
- 2017 "Genetic Programming for Improved Cryptanalysis of Elliptic Curve Cryptosystems", IEEE Congress on Evolutionary Computation. June 5 8, San Sebastián Spain. (Peer Reviewed) http://ieeexplore.ieee.org/abstract/document/7969342/
- "Copyright in the Stacks: The Chilling Effects of Unclear Copyright Interpretations in the Canadian Academic Library" in "Canadian Digital Copyright's Second Decade: What's at Stake", Canadian Political Science Association Annual Conference. (Peer Reviewed) http://hdl.handle.net/10464/6006

- 2013 "Arduino-enabled Patron Interaction Counting" code4lib Journal, Issue 20, April 14. (Peer Reviewed, Co-authored) http://journal.code4lib.org/articles/8200
  - "Beyond Open Source Software: Solving Common Library Problems Using The Open Source Hardware Arduino Platform" Partnership: the Canadian Journal of Library and Information Practice and Research, 8(1). (Peer Reviewed, Co-authored) https://journal.lib.uoguelph.ca/index.php/perj/article/view/2497
  - "Book Review: Pirate Cinema" 2600: The Hacker Quarterly. 30(2), pp. 48 http://hdl.handle.net/10464/6011
- 2009 "Testing the Off-Site Experience, or, How Well Do You Proxy?" Computers in Libraries 29(1), pp. 18-21 http://www.infotoday.com/cilmag/jan09/index.shtml
  - "Automatic Preparation of ETD Material from the Internet Archive for the DSpace Repository Platform" code4lib Journal, Issue 8, 2009-09-21 (Peer Reviewed) http://journal.code4lib.org/articles/2152
- 2007 "It's Time to Use a Wiki as Part of Your Website." Computers in Libraries, 27(10), pp. 24-29 http://www.infotoday.com/cilmag/nov07/index.shtml

## Presentations

- 2019 "Brock's New Digital Scholarship Lab: Partnering and Collaborating for Success" Toronto ON. Feb 1. Ontario Library Association SuperConference. (Co-Presentor) http://hdl.handle.net/10464/13916
  - "Cluster Computing for Humans -OR- Have you heard of this HPCPack?" Hamilton ON. May 30. code4Lib North. http://hdl.handle.net/10464/14145
  - "Git It Done with GitHub: Digital Scholarship with Open Tools" Toronto ON. June 3. Digital Odyssey. (Lightning Talk) http://hdl.handle.net/10464/14144
  - "A Community Without a Space: Digital Scholarship at Brock University" Waterloo ON. July 31. Digital Pedagogy Institute. (Lightning Talk & Full Presentation) http://hdl.handle.net/10464/14439
  - "Particular case and the big picture" Ottawa ON. October 25. CAUT Librarians' & Archivists' Conference: Navigating the Reorganization. (Panel Moderator)
  - "Academic Freedom and Collegiality in the Profession" Toronto ON. November 15. Charting Our Course: Empowering Librarians at the University Of Toronto. Organized by University of Toronto Faculty Association. (Panel Member)
  - "The Nation Perspective: How CAUT and collective bargaining has made a difference in the lives of Librarians and Archivists" Toronto ON. November 15. Charting Our Course: Empowering Librarians at the University Of Toronto. Organized by University of Toronto Faculty Association. (Invited Speaker)
- 2018 "Gathering Library data and creating visualizations the easy way!" Toronto ON. Feb 2. Ontario Library Association SuperConference. (Poster) http://hdl.handle. net/10464/13352

- "The Super Debate: Be It Resolved that Makerspaces Are A Waste of Resources" (Co-Presenter) OLA SuperConference. Toronto ON. January 31, 2018.
- "RA 21: What are you doing to protect your patrons?" Access Conference. Hamilton ON. Oct 10. (Peer Reviewed) (Video of presentation)
- 2017 "I didn't become a worse Librarian when I became a Grad Student" Ottawa ON. May 11. code4Lib North. (Lightning Talk) http://hdl.handle.net/10464/12959 "Extreme ethnography: How I became a grad student to be a better librarian" Edmonton AB. May 24. WILU 2017. (Peer Reviewed) https://doi.org/10.7939/R33T9DK7F
- 2016 "Hatching Open Access Journals: Hands-on Experience Creating and Publishing a Journal with Open Journal Systems" Ontario Library Association SuperConference. Toronto ON. January 28. (Co-Presenter)
  - "The Benefits of Self-governance for Professional Librarians" February 16. Edmonton AB. **Invited Speaker.**
  - "Cracking Elliptic Curve Cryptography with Genetic Algorithms" Mapping the New Knowledges Conference. St. Catharines ON. April 7.
  - "Twitter Bots" (Lightning Talk). Code4Lib North. Kitchener ON. May 26.
  - "Hello Friend. May I Introduce you to Linux" Code4Lib North. Kitchener ON. May 27.
  - "A Twitter Bot for the rest of us". Access Conference. Fredricton NB. October 4-7. (Peer Reviewed) (Video of Presentation)
- 2015 "Working with data using Open Refine and Other Tools". Ontario Library Association SuperConference. Toronto ON. January 29.
  - "Open Journal Systems Training Workshop". (Co-hosted 2 day workshop with 3 colleagues from other Ontario universities. McMaster University.) May 13-14.
  - "Look at all the cool things OpenRefine can do." Code4Lib North. St.Catharines ON. June 4.
- 2014 "Programming the Web with APIs" Ontario Library Association Super Conference. Toronto ON. January 30. (Co-Presenter)
  - "OLITA wants you! To hack an ebook reader" Code4Lib North, London ON. April 30.
  - "We need to have a conversation about OpenURL. A close look at the corpus of error reports from the 2013 academic year. Or, how I learned to stop worrying and give up on clean metadata" Access 2014. Calgary AB. (Peer Reviewed Poster Presentation) (Winner of Poster Contest) September 29 October 2. http://dr.library.brocku.ca/handle/10464/5756
  - "Have you tried turning it off and on again? Rebooting Library IT Conversations" Access 2014. Calgary AB. (Peer Reviewed Panel Presentation) October 2.
  - "Arduino and Raspberry Pi for the Uninitiated" Ontario Library Association Education Institute. (Webinar) December 2.

- 2013 "Hardware Hacking with Arduino for Fun and Profit!" Ontario Library Association Super Conference. Toronto ON. February 1. (Co-Presenter)
  - "Make Your Own API" Computers In Libraries 2013. Washington DC. April 9.
  - "Make Your Own Proxy?" Code4Lib North. Toronto ON. May 24. (Co-Presenter)
  - "Librarian, Publisher" Ontario Scholars Portal and Public Knowledge Project. June 27. (Co- Presenter Webinar)
  - "What School are you from again?" Detecting Bias in Journal Literature. Scholars Portal Resource Sharing Day. (Lightning Talk) December 6.
  - "Developing hardware solutions to academic data/research problems using off-the-shelf components" Faculty Outreach Working Group Workshop Series (Co-Presenter) December 10.
- 2012 "Circumvention using the Cloud?" Code4Lib North. Windsor ON. May 25.
  - "The Triumphs and Tribulations of a Web Scale Discovery Implementation", Library 2.01 Conference. October 4, 2012. (Co-Presenter, Online Conference)
  - "Books and Journals with the help of our friends", Scholars Portal Resource Sharing Day. Toronto ON. December 5, 2012. (Lightning Talk)
- 2011 "Taking fuzzy data from a black box, crossing your fingers and putting it in your OPAC" Library and Information Technology Association (a division of ALA) National Forum. St. Louis Missouri. September 29 October 2.
  - "Creating content access through mobile devices" EZproxy Virtual Users Group. Online Webcast. Thursday November 17.
- 2010 "Adding Material to a DSpace Installation automatically with the help of the Internet Archive" Canadian ETD and Open Repositories Workshop. Ottawa Ontario. May 9-11. (Poster Presentation)
  - "Niagara Knowledge Network Forum". Niagara Falls Ontario. November 16. Guest Speaker.
  - "Institutional Repositories 101: Or the Birth of the Brock Digital Repository" WNYO/ACRL Fall 2010 Conference, East Aurora NY. November 30.
- 2009 "ERM Implementation and population" Eastern Canada Innovative Users Group Conference. Toronto, Ontario. April 3.
  - "SFX for ERMs?" Ontario Council of Academic Libraries SFX Training Day. Toronto Ontario. October 19.
- 2008 "Going Live on a Shoestring Budget: An Open Source VR Solution." Ontario Library Association, SuperConference. Toronto, Ontario. February 1. (Co-Presenter, Poster Presentation)
  - "Virtual Reference With Crafty Syntax" Western New York Southern Ontario, Association of College and Research Libraries, Spring 2008 Conference. Niagara Falls, New York. May 2. (Co-Presenter, Poster Presentation)

## Awards & Grants

2019 Match of Minds Grant. Provided by Brock University

2010 Travel Bursary. Provided by the 2010 Canadian ETD and Open Repositories Workshop

## Peer Review

Canadian Journal of Academic Librarianship, 2015,2016,2018.

Partnership: the Canadian Journal of Library and Information Practice and Research, 2015.

Access Conference, 2014, 2016 - 2018.

ETD Conference, 2013.

Thomson Rivers University, Promotion and Tenure Committee, External Reviewer, 2018.

Lakehead University, Promotion and Tenure Committee, External Reviewer, 2019.

## Committees & Appointments

### Profession

CAUT Executive Committee, Member, 2018 - 2020.

CAUT Librarians' and Archivists' Committee, Chair, 2018 - 2020.

CAUT Librarians' and Archivists' Committee, Member, 2013 - 2018.

Library Carpentry Advisory Group, Member, 2019 - Present.

**Ontario Library and Information Technology Association**, *Councillor-at-Large*, 2012-2015.

code4Lib North, Conference Organizer, 2015.

Ontario Library Association SuperConference, Session Convener, 2014, 2015.

Networked Digital Library of Theses and Dissertations, *Board Member*, 2012 - 2015.

Access Conference, Session Convener, 2014.

Workshop in Library Use, Session Convener, 2017.

Canadian Association of Professional Academic Libraries Annual Conference, Session Convener, 2018.

Canadian Association of Research Libraries, Open Repositories Working Group, *Member*, 2018.

## Library

Associate University Librarian Search Committee, Member, 2018.

**University Librarian Hiring Committee**, *Member*, 2014.

Brock University Library Council, Secretary, 2009.

**Brock University Library Council**, *Chair*, 2010,2016.

University Librarian Review Committee, Member, 2009.

Data/Government Documents Librarian Search Committee, Member, 2011.

Electronic Resources Librarian Search Committee, Member, 2011.

Associate University Librarian Review Committee, Member, 2013.

Electronic Resources Management Working Group, Member, 2009 - Present.

Niagara Knowledge Exchange Technical Working Group, Member, 2010.

Circulation and Help Desk Services Team, Member, 2014.

OCUL Public Knowledge Project Support Group, Member, 2012 - Present.

Brock Library Research Communities of Practice, Member, 2014 - Present.

## Union

**Brock University Faculty Association**, Negotiation Team, 2014.

**BUFA Executive Committee**, *Professional Librarian Representative*, 2009, 2012, 2015 - 2017.

**Senate Student Appeals Committee**, *Brock University Faculty Association Observer*, 2008-2014.

**Senate Governance Committee**, *Brock University Faculty Association Observer*, 2008.

## University

Brock University Senate, Senator, 2017-2020.

Brock University Computer Science Departmental Committee, *Graduate Student Representative*, 2015.

Brock University Parking Appeals Committee, Member, 2009-2014.

**Brock University Information Technology and Infrastructure Committee**, *Member*, 2014,2017.

Brock University Information Technology and Infrastructure Committee, *Vice Chair*, 2018.

## Conferences & Workshops

01-02-2019 Ontario Library Association Super Conference. Toronto ON.

05-30-2019 code4Lib North. Hamilton ON.

06-03-2019 Ontario Library Association Digital Odyssey. North York ON.

07-31-2019 Digital Pedagogy Institute Conference. Waterloo ON.

09-30-2019 Access Conference. Edmonton AB.

10-25-2019 CAUT Librarians' & Archivists' Conference: Navigating The Reorganization. Ottawa ON. **Member of Organizing Committee** 

- 31-01-2018 Ontario Library Association Super Conference. Toronto ON.
- 01-04-2018 Software Carpentry Instructor Certification
- 14-04-2018 DH@Guelph Summer Workshop. University of Guelph
- 29-04-2018 Canadian Association of Professional Academic Librarians Annual Conference
- 07-05-2018 Obtained Software Carpentry Instructor Certification.
- 10-10-2018 Access Conference. Hamilton ON.
- 06-11-2018 Library Management Skills Institute (LMSI I: The Manager). Waterloo ON.
- 01-04-2017 Introduction to Digital Humanities. Library Juice Academy.
- 01-10-2017 Humanities Librarianship in a Digital Age. Library Juice Academy.
- 10-05-2017 code4Lib North. Ottawa ON.
- 22-05-2017 Workshop for Instruction in Library Use (WILU). Edmonton AB.
- 05-06-2017 IEEE Congress on Evolutionary Computation. San Sebastián Spain.
- 16-08-2017 4th Annual Digital Pedagogy Institute Conference. St. Catharines ON.
- 27-09-2017 Access Conference. Saskatoon SK.
- 28-01-2016 Ontario Library Association Super Conference. Toronto ON.
- 26-05-2016 Code4Lib North. Kitchener ON.
- 04-10-2016 Access Conference. Fredricton, NB.
- 22-10-2016 CAUT Librarian's Conference. Ottawa ON.
- 28-01-2015 Ontario Library Association Super Conference. Toronto ON.
- 24-04-2015 Seeding Digital Scholarship. Sherman Center for Digital Scholarship, McMaster University. Hamilton ON.
- 04-06-2015 Code4Lib North. St. Catharines ON.
- 12-08-2015 IEEE Conference on Computational Intelligence in Bioinformatics and Computational Biology. Niagara Falls ON.
- 29-01-2014 Ontario Library Association SuperConference. Toronto ON.
- 07-02-2014 Canadian Association of University Teachers: Building a Better Association Workshop. Niagara On the Lake ON.
- 29-04-2014 Open Access Colloquium. Hamilton ON.
- 01-05-2014 Code4Lib North, London ON.
- 25-05-2014 Canadian Association of Professional Academic Librarians, Annual Congress. St. Catharines ON.
- 26-05-2014 Canadian Political Science Association, Annual Conference. St. Catharines ON.
- 07-06-2014 Digital Odyssey. Toronto ON.
- 29-09-2014 Access Conference. Calgary ON.
- 31-01-2013 Ontario Library Association Super Conference. Toronto ON.

- 22-02-2013 Ontario Council of University Libraries Unified Resource Management Symposium. Toronto ON.
- 08-04-2013 Computers In Libraries. Washington DC.
- 23-05-2013 Code4Lib North. Toronto ON.
- 07-06-2013 Digital Odyssey. Toronto ON.
- 17-06-2013 Canadian Association of Research Libraries: Library Research Institute. Regina SK. Received travel bursary from Brock University Library to attend.
- 17-10-2013 Canadian Association of Research Libraries: Canadian Library Assessment Workshop. Toronto ON.
- 24-10-2013 CAUT: Negotiations Workshop. Niagara On the Lake ON.
- 04-12-2013 Scholars Portal Research Sharing Day. Toronto ON.
- 01-02-2012 Hand Held Librarian VI Conference. Online.
- 03-02-2012 Ontario Library Association SuperConference. Toronto ON.
- 18-04-2012 Instructional Skills Workshop. St. Catharines ON.
- 27-04-2012 WNYO/ ACRL 2012 Spring Conference. Jordan ON.
- 24-05-2012 Code4Lib North. Windsor ON.
- 08-06-2012 Digital Odyssey (Presented by OLITA). Toronto ON.
- 17-10-2012 Access. Montreal QC.
- 25-10-2012 CAUT Librarian's Conference. Ottawa ON.
- 05-12-2012 Scholars Portal Resource Sharing Day. Toronto ON.
- 23-02-2011 Handheld Library IV Conference. Online.
- 29-04-2011 WYNO/ACRL 2011 Spring Conference. Jordan ON.
- 06-06-2011 Open Repositories 2011. Austin TX. Received travel bursary from the organizers of the 2010 Canadian ETD and Open Repositories Workshop to attend.
- 29-09-2011 Library and Information Technology Association National Forum. St. Louis MI.
- 18-11-2011 A crisis or an opportunity? Toronto, ON.
- 09-12-2011 Scholars Portal Resources Sharing Day. Toronto, ON.
- 21-04-2010 Scholars Portal Road Show, Hamilton ON.
- 06-05-2010 Code4Lib North, Kingston ON.
- 06-09-2010 Canadian ETD and Open Repositories Workshop, Ottawa ON.
- 05-11-2010 WNYO/ACRL Fall 2010 Conference, East Aurora NY.
- 03-04-2009 Eastern Canada Innovative Users Group Annual Conference, Toronto ON.
- 07-04-2009 Scholars Portal E-Book Platform Presentation, Toronto ON.
- 11-05-2009 Programming for Drupal Training, St. Catharines ON.
- 19-10-2009 SFX Training Day, Toronto ON.
- 11-10-2009 ExLibris SFX Version 4 Product Demonstration, Toronto ON.

- 11-12-2009 Scholars Portal Day. Toronto ON.
- 01-02-2008 Ontario Libraries Association SuperConference, Toronto ON.
- 07-11-2008 Computers In Libraries Conference. Crystal City, WV.
- 01-10-2008 Access 2008. Hamilton ON.
- 12-12-2008 Scholars Portal Day. Toronto ON.
- 01-31-2007 Scholars Portal Day, Toronto ON.

Ontario Libraries Association SuperConference, Toronto ON. Received First Time **Attending Scholarship** 

- 13-12-2007 SFX & OpenURL training sponsored by the Ex-Libris Company. Toronto ON.
- 14-12-2007 Scholars Portal Day. Toronto ON.
- 02-11-2006 Eastern Canada Innovation Users Group Annual Conference. Kitchener ON.

## Professional Organizations

- Ontario Library Association
- American Library Association
- Canadian Association of Professional Progressive Librarians Guild Academic Librarians

## Computer Skills

## Languages Python.

Skills include writing XML parsers, metadata conversion systems and list manipulation. Extensive experience with Distributed Evolutionary Algorithm in Python https://deap. readthedocs.org/en/master/

Skills include using PHP as a web content system and processing XML data. Using PHP to add functionality and extending modules of popular web based applications.

### AJAX & Javascript.

Skills include utilizing Java to create asynchronous web-applications based on the AJAX platform. Using Javascript to create interactive additions to websites. Working knowledge of JQuery and jQuery Mobile.

#### XSLT & HTML.

Skills include manipulating CSS, form processing, manipulating rendered pages with DOM directives, and creating mobile suitable displays of existing sites, generating crosswalks.

## System Linux.

Knowledge Advanced knowledge of Debian/Ubuntu distribution. Completed Linux Software Foundation "Introduction to Linux System Administration" training course.

## Database Management Systems.

Skills include manipulation and creation of relational databases (MySQL, PostgreSQL) and document storage databases (MongoDB, CouchDB) for usage in web-based and data collection projects.

## Hardware Prototyping.

Skills include soldering components and constructing Arduino based circuitry. Have presented introductory sessions on the capabilities of these devices for Library settings.

## Library **EZproxy**.

Specific Have been the institutional administrator for the platform for Brock University. Have authored an article about the importance of proper configuration of the software that was published in Computers in Libraries.

### Innovative ILS.

Extensive working knowledge of the Millennium ILS system with particular focus on the electronic resource management module.

### OpenURL.

The commercial product SFX by the Ex Libris company is the backbone of the Brock University 'Get It' system that retrieves full text and other resources from citation information. I am responsible for the day to day operation of the system for all users of the Brock community.

## Ebsco Discover System.

Responsible for front-end appearance and system administration. Also responsible for overseeing nightly ingest of catalogue items into the index.

Allows the Brock Community to interact with the Library Catalogue and other services directly from their Internet browser.

## Select Projects & Software Skills

Steering the Digital Scholarship Podcast, https://soundcloud.com/brock\_

Chronicles the creation of the Digital Scholarship Lab at Brock University.

LIS\_Grievances, http://lisgrievances.com.

Twitter bot that posts messages anonymously.

Library Data Visualization Toolkit, https://elibtronic.github.io/ LibraryDataVis/.

Library Specific data visualization platform built using Google Apps and D3.

**Tabulatron**, http://github.com/elibtronic/tabulatron/.

Software that supports an Arduino based tabulation machine. This tabulation machine was the featured in two articles and is actively being used by Brock University Library for gathering statistics at two different service points.

**OpenURL Metadata Converter**, http://github.com/elibtronic/OUMC.

A Python based toolkit that crosswalks metadata in SFX stipulated format into delimited format suitable for automatic processing.

**IA\_Scraper**, https://github.com/elibtronic/iascraper.

An automated utility that will harvest information from the Internet Archive (archive.org) and prepare it to be ingested into the D-Space repository platform.

https://github.com/elibtronic/ **Available Portable** Equipment, ape-display.

A Raspberry PI powered kiosk system that displays in real time, availability of popular portable equipment loaned at circulation desk.

**OpenURL to ERM**, https://github.com/elibtronic/openurl\_to\_erm. Software that converts SFX OpenURL knowledge base data into Innovative Interfaces International ERM compatible data.

**Proxy Link Checker**, http://library.brocku.ca/proxy/checker.php.

An AJAX powered application that validates remote user accessing resources with EZProxy.

**DSpace**, http://dr.library.brocku.ca.

The D-Space is the platform of the Brock University Digital Repository which contains a vast collection of electronic theses digitized documents of interest to the Brock community. Have been using the product since 2007 and have submitted bug fixes and code enhancements to the D-Space community

**Open Journal System**, http://brock.scholarsportal.info/journals.

The Open Journal Systems is the open source platform that allows for the publication of peer-reviewed journal content. I am currently the administration for the Brock University instance of the software and am responsible for the operation of 6 hosted journals found on that site.