

Curriculum Vitae

Eric McGregor

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I. Professional Background

A. Education

December 2011	<i>Ph.D., Computer Science</i>	Clarkson University, Potsdam, New York Dissertation: Automated Theorem Proving Using SAT Advisor: Christopher Lynch, PhD
June 2004	<i>M.S., Mathematics</i>	State University of New York, Potsdam, New York
August 2000	<i>M.S., Computer Science</i>	Wichita State University, Wichita, Kansas Project: LIVID – The First Linux Software DVD player
December 1992	<i>B.S., Business Management</i>	Excelsior College, Albany, New York

B. Employment

2013-present	<i>Assistant Professor of Computer Science, Bridgewater College</i>
2011-2013	<i>Intelligence Community Fellow, Clarkson University</i>
2012-2013, 2009-2010	<i>Instructor, Department of Mathematics & Computer Science, Clarkson University</i>
2006-2011	<i>Teaching Assistant, Clarkson University</i>
2002-2005	<i>Independent Contractor</i>
2001	<i>Software Engineer, CR Software Inc., Fairfax, Virginia</i>
2000	<i>Instructor, Department of Mathematics & Computer Science, Wichita State University</i>
1996-1999	<i>Systems Support Analyst, Marriott International, Wichita, Kansas</i>

C. Honors and Awards

Clarkson University

2012	<i>RESPECT Award, Office of Accommodative Services</i>
2012	<i>Commendation for Outstanding Teaching, Dean of Students</i>
2010	<i>Commendation for Outstanding Teaching, Dean of Students</i>
2009	<i>Sanda Briggs Award, Outstanding Teaching Assistant, Department of Mathematics & Computer Science</i>
2007	<i>Distinguished Alumni Award, Beta Chi Chapter of Phi Kappa Sigma</i>
2007	<i>Sanda Briggs Award, Outstanding Teaching Assistant, Department of Mathematics & Computer Science</i>

II. Instruction

Course #	Title	Year(s)	# of Students
<u>Bridgewater College, Department of Mathematics and Computer Science</u>			
CSCI-105	<i>Introduction to Programming</i>	'16	26
CSCI-200	<i>Intermediate Programming</i>	'16,'17,'18	6,4,21
CSCI-205	<i>Data Structures</i>	'14,'15,'16,'17	11,23,19,4
CSCI-225	<i>Mathematical Structures</i>	'14,'15,'16	11,16,29
CSCI-230	<i>Scripting Languages</i>	'14,'16,'17	25,1,25
CSCI-240	<i>Web API Programming</i>	'14,'16,'18	16,24,13
CSCI-300	<i>Mobile Application Development</i>	'13,'15,'15,17	19,12,7,26
CSCI-305	<i>Animation and 3D Programming</i>	'16,'17	5,18
CSCI-320	<i>Algorithm Analysis</i>	'13,'15,'16	18,18,3
CSCI-330	<i>Operating Systems</i>	'14,'15,'15,'17	2,14,3,28
CSCI-340	<i>Computer Architecture</i>	'16,'16	1,28
CSCI-410	<i>Signal and Image Processing</i>	'14	6
CSCI-415	<i>Artificial Intelligence</i>	'16	15
MATH-107	<i>Quantitative Reasoning</i>	'14	35
MATH-118	<i>Quantitative Reasoning</i>	'15	14
CIS-325	<i>Data Communications</i>	'16,'17	15,18
CIS-350	<i>Database Management</i>	'13,'14	22,12
CIS-450	<i>Software Engineering</i>	'14	19

Clarkson University, Department of Mathematics and Computer Science

MA211	<i>Foundations (Discrete Mathematics)</i>	'13,'12	48, 30
MA231	<i>Calculus III</i>	'12	101
CS 141	<i>Introduction to Computer Science</i>	'10,'09	50,62
MA180	<i>Introductory College Mathematics</i>	'09	33

Wichita State University, Department of Computer Science

CS440	<i>Computer Hardware Design</i>	'00	30
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III. Languages, Libraries and Tools

- Java 9 (generics, Lambda expr.), C++, c, Python, Matlab, I86-64 Assembly
- Linux, UNIX system programming (threads, IPC, sockets, etc.), gcc, make
- HTML5, CSS3, SVG, ECMAScript, Babylon.js, d3.js, bootstrap.js
- MySQL, MySQL Workbench, SQLite
- Vim, Eclipse, Android Studio, WebStorm
- Visio, GIMP, LaTeX, Git
- AWS, nginx, WordPress, AdSense

IV. Research

- Thoracic biometric using electrocardiogram and thoracic pulse
- First-order logic, automated reasoning, theorem proving

- 3D information visualization

A. Undergraduate Student Research

1. Social Network Visualization with YAGL, Michele Alty, Laura Gretz, Max Cardillo, Daniel Stahl, Spring 2017
2. A 3D Computer Simulation, Trevor Bostic, Fall 2016 – Spring 2017
3. YAGL - A Javascript 3D Graph Library, John Moran, Summer 2016
4. A Novel Beat Detection Algorithm, Dylan Tokotch, Fall 2015
5. Thoracic Biometrics Data Collection and Software Enhancement, Troy Soaper, Summer 2015
6. Carotid Pulse Detection and Signal Enhancement in a Biometric Identification System, Tayseer O'Brien, Fall 2014

B. Published Works

1. Stephanie Schuckers, Eric McGregor: Considerations in Standoff Biometrics, In-Q-Tel Quarterly, Spring 2012
2. Christopher Lynch, Ralph Eric McGregor: Combining Instance Generation and Resolution. FroCos 2009: 304-318
3. Jeremy Bongio, Cyrus Katrak, Hai Lin, Christopher Lynch, Ralph Eric McGregor: Encoding First Order Proofs in SMT. Electr. Notes Theor. Comput. Sci. 198(2): 71-84 (2008)
4. Todd Deshane, Wenjin Hu, Patty Jablonski, Hai Lin, Christopher Lynch, Ralph Eric McGregor: Encoding First Order Proofs in SAT. CADE 2007: 476-491

C. Unpublished Works

1. Thoracic Biometrics - Investigations of the Human Heartbeat as a Biometric: Heart Sounds, Electrocardiogram, and Vibrometry, IC Postdoctoral Fellowship Report Update, January 2015
2. Thoracic Biometrics - Investigations of the Human Heartbeat as a Biometric: Heart Sounds, Electrocardiogram, and Vibrometry, IC Postdoctoral Fellowship Final Report, May 2013

D. Presentations

1. Eric McGregor: Thoracic Biometrics—Investigations of the Human Heartbeat as a Biometric: Heart Sounds, Electrocardiogram, and Vibrometry. 2012 IC Colloquium
2. Stephanie Schuckers, Eric McGregor: Thoracic Biometrics – Investigations of the Human Heartbeat as a Biometric: Heart Sounds, Electrocardiogram, and Vibrometry, InQTel Corporation, 2011
3. Todd Deshane, Wenjin Hu, Patty Jablonski, Hai Lin, Christopher Lynch, Ralph Eric McGregor: Encoding First Order Proofs in SAT. CADE 2007

V. Service and Memberships

A. Professional

2017 - present	Chair, New Faculty Development Committee, Bridgewater College
2016 - present	Member, Showker Prize Committee, Bridgewater College
2013 - present	Advisor, Bridgewater College Computing Club
2007 - present	Member, The Association for Automated Reasoning (AAR)
1999	Member, Pi Mu Epsilon Mathematics Society, Wichita State University

B. Community and Social Organizations

2014 - present Member, Town of Mount Crawford Economic Development Committee
1989 Phi Kappa Sigma Fraternity, SUNY Potsdam

C. Past Service

2015-2017 Member, New Faculty Development Committee, Bridgewater College
2016 Member, Dept. of Communications Hiring Committee, Bridgewater College
2015 - 2016 Volunteer, Bethany Methodist Church Food Pantry
2014, 2015 Member, Dept. of Business and Econ. Hiring Committee, Bridgewater College
2014 - 2015 Member, General Education Assessment Committee, Bridgewater College
2014 - 2015 Member, IT Sounding Board Committee, Bridgewater College
2011 - 2013 Member, Town of Stockholm Economic Development Committee