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Dr. Marc Moreno Maza

Correspondence language: English Sex: Male Date of Birth: 5/28

Contact Information

The primary information is denoted by (*)

Address

Primary Affiliation (*)

Department of Computer Science Middlesex College The University of Western Ontario 1151 Richmond Street London Ontario N6A 5B7 Canada

Telephone

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Website

Corporate	https://www.csd.uwo.ca/~mmorenom/	homepage-moreno.html
••••		

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Protected when completed

Dr. Marc Moreno Maza

Language Skills

Language	Read	Write	Speak	Understand	Peer Review
English	Yes	Yes	Yes	Yes	Yes
French	Yes	Yes	Yes	Yes	Yes
Spanish; Castilian	Yes	Yes	Yes	Yes	Yes

Degrees

Master's Thesis, Computer Science, Université de Paris VI (P & M Curie) Master's Thesis, Mathematics, Université de Paris VI (P & M Curie) Doctorate, PhD, Computer Science, Université de Paris VI (P & M Curie)

User Profile

Researcher Status: Researcher Research Specialization Keywords: Computer algebra, parallel computing

Employment

2016/7	Full Professor Computer Science, University of Western Ontario Full-time, Professor Tenure Status: Tenure
2008/7 - 2016/7	Associate Professor Computer Science, University of Western Ontario Full-time, Associate Professor Tenure Status: Tenure
2002/7 - 2008/7	Assistant Professor Computer Science, University of Western Ontario Full-time, Assistant Professor Tenure Status: Tenure Track
2001/9 - 2002/7	Maitre de conferences Computer Science, Université de Lille I (Sci. & Tech.) Full-time, Associate Professor Tenure Status: Tenure
2000/9 - 2001/8	Maitre de conferences Computer Science, Université de Lille I (Sci. & Tech.) Full-time, Assistant Professor Tenure Status: Tenure Track

		Dr. Marc Moreno Maza
1997/7 - 2000/8	Computational Math Symbolic Computat Full-time Tenure Status: Non	ion, The Numerical Algorithms Group Ltd
Research Fundir	ng History	
Awarded [n=19]		
2018/4 - 2024/3	Project Description:	Grant, Grant, Operating Pushing the limits of computer algebra: From the integer resolution of to the computation of topological closures
	Funding Sources:	
	2018/4 - 2024/3	Natural Sciences and Engineering Research Council of Canada (NSERC) NSERC Discovery Grant Total Funding - 246,000 (Canadian dollar) Portion of Funding Received - 246,000 (Canadian dollar) Funding Competitive?: Yes
2019/5 - 2020/4	IBM Center for Adva	anced Studies (CAS, Grant, Operating
	Funding Sources:	
	-	IBM (CAS) Centre for Advances Studies CAS Total Funding - 24,000 (Canadian dollar) Portion of Funding Received - 24,000 (Canadian dollar) Funding Competitive?: Yes
2016/12 - 2019/11 Principal Investigator		ative Research and Development (CRD), Grant, Operating Comprehensive Optimization of Parametric Kernels for Graphics
	Funding Sources:	
		Natural Sciences and Engineering Research Council of Canada (NSERC) NSERC CRD Total Funding - 144,000 Portion of Funding Received - 48,000 Funding Competitive?: Yes
2018/5 - 2019/4	IBM Center for Adva	anced Studies (CAS), Grant, Operating
Principal Investigator	Funding Sources:	
		IBM (CAS) Centre for Advances Studies CAS Total Funding - 24,000 (Canadian dollar) Portion of Funding Received - 24,000 (Canadian dollar)

2017/5 - 2018/5 IBM Center for Advanced Studies (CAS), Grant, Operating Principal Investigator

Funding Competitive?: Yes

		Dr. Marc Moreno Ma
	Funding Sources:	
		IBM (CAS) Centre for Advances Studies
		CAS Total Funding - 24,000
		Portion of Funding Received - 24,000
		Funding Competitive?: Yes
2013/4 - 2018/3	-	Grant, Grant, Operating
Principal Applicant	Clinical Research P Project Description	roject?: No Hardware Acceleration Technologies Enabling Polynomial System
	Solving	
	Funding Sources:	
		Natural Sciences and Engineering Research Council of Canada
		(NSERC) NSERC Discovery Grant
		Total Funding - 100,000
		Portion of Funding Received - 100,000 Funding Competitive?: Yes
2016/6 - 2017/6 Principal Applicant		anced Studies (CAS), Grant, Operating
	Funding Sources:	IBM (CAS) Centre for Advances Studies
		CAS
		Total Funding - 24,000
		Portion of Funding Received - 24,000 Funding Competitive?: Yes
2015/6 - 2016/6	IBM Center for Adv	anced Studies (CAS), Grant, Operating
Principal Applicant	Funding Sources:	
	r anding obtroco.	IBM (CAS) Centre for Advances Studies
		CAS
		Total Funding - 30,000 Portion of Funding Received - 30,000
		Funding Competitive?: Yes
2015/7 - 2015/11	Chinese Academy of	of Science Fellowship, Fellowship
Principal Applicant	Funding Sources:	
	-	Chinese Academy of Sciences (The)
		Fellowship Total Funding - 26,400 (Canadian dollar)
		Portion of Funding Received - 26,400 (Canadian dollar)
		Funding Competitive?: Yes
2014/6 - 2015/6 Principal Applicant	IBM Center for Adva	anced Studies (CAS), Grant, Operating
	Funding Sources:	
		IBM (CAS) Centre for Advances Studies
		CAS Total Funding - 26,000
		Portion of Funding Received - 26,000
		Funding Competitive?: Yes
2012/0 2011/0		Creat Operating

2013/6 - 2014/6 MITACS Accelerate, Grant, Operating Principal Applicant

Funding Sources:

Mathematics of Information Technology and Complex Systems (MITACS) Accelerate Total Funding - 102,000 (Canadian dollar) Portion of Funding Received - 102,000 (Canadian dollar) Funding Competitive?: Yes

2012/9 - 2013/4 MITACS Accelerate, Grant, Operating

Principal Applicant Funding Sources:

Mathematics of Information Technology and Complex Systems (MITACS) Accelerate Total Funding - 25,000 (Canadian dollar) Portion of Funding Received - 25,000 (Canadian dollar) Funding Competitive?: Yes

2008/4 - 2013/3NSERC Discovery, Grant, OperatingPrincipal ApplicantProject Description: High Performance Computer Algebra and Applications

Funding Sources:

Natural Sciences and Engineering Research Council of Canada (NSERC) Discovery Total Funding - 135,000 (Canadian dollar) Portion of Funding Received - 135,000 (Canadian dollar) Funding Competitive?: Yes

2010/11 - 2012/11 MITACS Elevate, Grant, Operating

Principal Applicant Funding Sources:

Mathematics of Information Technology and Complex Systems (MITACS) Elevate Total Funding - 140,000 Portion of Funding Received - 140,000 Funding Competitive?: Yes

2011/5 - 2012/4 MITACS Elevate, Grant, Operating Principal Applicant

^{II} Funding Sources:

Mathematics of Information Technology and Complex Systems (MITACS) Elevate Total Funding - 55,000 Portion of Funding Received - 55,000 Funding Competitive?: Yes

Co-investigator : I. Kotsireas

2011/5 - 2012/4 Principal Applicant

ADF Major grant, Grant, Operating

pai Applicant

Funding Sources:

ADF Major grant Total Funding - 50,000 Portion of Funding Received - 50,000 Funding Competitive?: Yes

Co-investigator : P. Yu; R.M. Corless

2010/4 - 2011/3 NSERC RTI, Grant, Equipment

Principal Applicant Funding Sources:

Natural Sciences and Engineering Research Council of Canada (NSERC) RTI Total Funding - 150,000 Portion of Funding Received - 150,000 Funding Competitive?: Yes

Co-investigator : E. Schost; R. E. Mercer

2009/4 - 2011/3 MITACS Full Project, Grant, Operating

Co-investigator Project Description: Mathematics of Computer Algebra and Analysis (MOCAA)

Funding Sources:

Mathematics of Information Technology and Complex Systems (MITACS) MITACS Full Project Total Funding - 420,000 (Canadian dollar) Portion of Funding Received - 12,500 (Canadian dollar) Funding Competitive?: Yes

Principal Applicant : G.~Labahn

2009/1 - 2011/1 SHARCNET Graduate Fellowship, Fellowship

Principal Applicant Funding Sources:

SHARCNET Graduate Fellowship Total Funding - 26,000 Portion of Funding Received - 26,000 Funding Competitive?: Yes

Completed [n=2]

2020/8 - 2020/11 MITACS Accelerate, Grant, Operating Principal Investigator Project Description: Algorithmic and Interface Advances in Computer Algebra Partner organization: Maplesoft Inc.

Funding Sources:

Mathematics of Information Technology and Complex Systems (MITACS) MITACS Accelerate Total Funding - 49,000 (Canadian dollar) Portion of Funding Received - 49,000 (Canadian dollar) Funding Competitive?: Yes

2019/5 - 2019/8Maplesoft contract, ContractPrincipal InvestigatorProject Description: Advances in Computer Algebra

Funding Sources:

Waterloo Maple Total Funding - 19,800 (Canadian dollar) Portion of Funding Received - 1,900 (Canadian dollar)

Courses Taught

2021/05/01 - 2021/06/30	Instructor, Computer Science, University of Western Ontario Course Title: CS 9646 - Algorithms for Multivariate Power Series and their application to Symbolic analysis Course Code: CS9646 Course Topic: Computer Algebra Course Level: Graduate Academic Session: Summer Lecture Hours Per Week: 3 Tutorial Hours Per Week: 0 Lab Hours Per Week: 0 Guest Lecture?: No
2020/09/01 - 2020/12/31	Instructor, Computer Science, University of Western Ontario Course Title: CS 2214A: Discrete Structures for Computing Course Code: CS2214 Course Topic: Discrete Mathematics Course Level: Undergraduate Academic Session: Fall Lecture Hours Per Week: 3 Tutorial Hours Per Week: 1 Lab Hours Per Week: 0 Guest Lecture?: No
2020/01/01 - 2020/04/30	Instructor, Computer Science, University of Western Ontario Course Title: CS 9867B - Algorithmic Properties of Polynomial Rings Course Code: CS 9867 Course Topic: Computer Algebra Course Level: Graduate Academic Session: Winter Lecture Hours Per Week: 3 Tutorial Hours Per Week: 0 Lab Hours Per Week: 0 Guest Lecture?: No
2019/09/01 - 2019/12/31	Instructor, Computer Science, University of Western Ontario Course Title: CS 2214A: Discrete Structures for Computing Course Code: CS2214 Course Topic: Discrete Mathematics Course Level: Undergraduate Academic Session: Fall Lecture Hours Per Week: 3 Tutorial Hours Per Week: 1 Lab Hours Per Week: 0 Guest Lecture?: No

2019/09/01 - 2019/12/31	Instructor, Computer Science, University of Western Ontario Course Title: CS 9635A and CS 4402A - Distributed and Parallel Systems Course Code: CS9635 - CS4402 Course Topic: Parallel Computing Course Level: Graduate Academic Session: Fall Lecture Hours Per Week: 3 Tutorial Hours Per Week: 0 Lab Hours Per Week: 0 Guest Lecture?: No
2019/01/01 - 2019/04/30	Instructor, Computer Science, University of Western Ontario Course Title: CS 2214B: Discrete Structures for Computing Course Code: CS2214 Course Topic: Discrete Mathematics Course Level: Undergraduate Academic Session: Winter Lecture Hours Per Week: 3 Tutorial Hours Per Week: 1 Lab Hours Per Week: 0 Guest Lecture?: No
2018/01/01 - 2018/04/30	Instructor, Computer Science, University of Western Ontario Course Title: CS 3350B - Computer Architecture Course Code: CS3350 Course Topic: Computer Architecture Course Level: Undergraduate Academic Session: Winter Lecture Hours Per Week: 3 Tutorial Hours Per Week: 0 Lab Hours Per Week: 0 Guest Lecture?: No
2018/01/01 - 2018/04/30	Instructor, Computer Science, University of Western Ontario Course Title: CS 9635B and CS 4402B - Distributed and Parallel Systems Course Code: CS9635 - CS4402 Course Topic: Parallel Computing Course Level: Undergraduate Academic Session: Winter Lecture Hours Per Week: 3 Tutorial Hours Per Week: 0 Lab Hours Per Week: 0 Guest Lecture?: No
2017/09/01 - 2017/12/31	Instructor, Computer Science, University of Western Ontario Course Title: CS 2209A: Applied Logic for Computer Science Course Code: CS2209 Course Topic: Logic for computer science Course Level: Undergraduate Academic Session: Fall Lecture Hours Per Week: 3 Tutorial Hours Per Week: 1 Lab Hours Per Week: 0 Guest Lecture?: No

2017/09/01 - 2017/12/31	 Instructor, Computer Science, University of Western Ontario Course Title: CS 9652A - Algorithms and software for symbolic solvers of polynomial systems Course Code: CS9652 Course Topic: Computer Algebra Course Level: Graduate Academic Session: Fall Lecture Hours Per Week: 3 Tutorial Hours Per Week: 0 Lab Hours Per Week: 0 Guest Lecture?: No
2017/01/01 - 2017/04/30	Instructor, Computer Science, University of Western Ontario Course Title: CS 3350B - Computer Architecture Course Code: CS3350 Course Topic: Computer Architecture Course Level: Undergraduate Academic Session: Winter Lecture Hours Per Week: 3 Tutorial Hours Per Week: 0 Lab Hours Per Week: 0 Guest Lecture?: No
2017/01/01 - 2017/04/30	Instructor, Computer Science, University of Western Ontario Course Title: CS 9535B and CS 4402B - Distributed and Parallel Systems Course Code: CS9635 - CS4402 Course Topic: Parallel Computing Course Level: Graduate Academic Session: Winter Lecture Hours Per Week: 3 Tutorial Hours Per Week: 0 Lab Hours Per Week: 0 Guest Lecture?: No
2015/01/01 - 2015/04/30	Instructor, Computer Science, University of Western Ontario Course Title: CS 3350B - Computer Architecture Course Code: CS3350 Course Topic: Computer Architecture Course Level: Undergraduate Academic Session: Winter Lecture Hours Per Week: 3 Tutorial Hours Per Week: 0 Lab Hours Per Week: 0 Guest Lecture?: No
2015/01/01 - 2015/04/30	Instructor, Computer Science, University of Western Ontario Course Title: CS 9535B and CS 4402B - Distributed and Parallel Systems Course Code: CS9635 - CS4402 Course Topic: Parallel Computing Course Level: Graduate Academic Session: Winter Lecture Hours Per Week: 3 Tutorial Hours Per Week: 0 Lab Hours Per Week: 0 Guest Lecture?: No

2015/01/01 - 2015/04/30	Instructor, Computer Science, University of Western Ontario Course Title: CS 3101B - Theory and Practice of High-performance Computing Course Code: CS3101 Course Topic: Parallel Computing Course Level: Undergraduate Academic Session: Winter Lecture Hours Per Week: 3 Tutorial Hours Per Week: 1 Lab Hours Per Week: 0 Guest Lecture?: No
2014/09/01 - 2014/12/31	Instructor, Computer Science, University of Western Ontario Course Title: CS 2101A - Foundations of Programming for High Performance Computing Course Code: CS2101 Course Topic: Parallel Computing Course Level: Undergraduate Academic Session: Fall Lecture Hours Per Week: 3 Tutorial Hours Per Week: 1 Lab Hours Per Week: 1 Guest Lecture?: No
2014/01/01 - 2014/04/30	Instructor, Computer Science, University of Western Ontario Course Title: CS 3101B - Theory of High-performance Computing Course Code: CS3101 Course Topic: Parallel Computing Course Level: Undergraduate Academic Session: Winter Lecture Hours Per Week: 3 Tutorial Hours Per Week: 1 Lab Hours Per Week: 0 Guest Lecture?: No
2014/01/01 - 2014/04/30	Instructor, Computer Science, University of Western Ontario Course Title: CS 9535 and CS 4402B - Distributed and Parallel Systems Course Code: CS9635 - CS4402 Course Topic: Parallel Computing Course Level: Graduate Academic Session: Winter Lecture Hours Per Week: 3 Tutorial Hours Per Week: 0 Lab Hours Per Week: 0 Guest Lecture?: No
2013/09/01 - 2013/12/31	Instructor, Computer Science, University of Western Ontario Course Title: CS 2101A - Foundations of Programming for High Performance Computing Course Code: CS2101 Course Topic: Parallel Computing Course Level: Undergraduate Academic Session: Fall Lecture Hours Per Week: 3 Tutorial Hours Per Week: 1 Lab Hours Per Week: 1 Guest Lecture?: No

2013/01/01 - 2013/04/30	Instructor, Computer Science, University of Western Ontario Course Title: CS 3101B - Theory of High-performance Computing Course Code: CS3101 Course Topic: Parallel Computing Course Level: Undergraduate Academic Session: Winter Lecture Hours Per Week: 3 Tutorial Hours Per Week: 1 Lab Hours Per Week: 0 Guest Lecture?: No
2013/01/01 - 2013/04/30	Instructor, Computer Science, University of Western Ontario Course Title: CS 9535 and CS 4402B - Distributed and Parallel Systems Course Code: CS9635 - CS4402 Course Topic: Parallel Computing Course Level: Graduate Academic Session: Winter Lecture Hours Per Week: 3 Tutorial Hours Per Week: 0 Lab Hours Per Week: 0 Guest Lecture?: No
2012/09/01 - 2012/12/31	Instructor, Computer Science, University of Western Ontario Course Title: CS 2101A - Foundations of Programming for High Performance Computing Course Code: CS2101 Course Topic: Parallel Computing Course Level: Undergraduate Academic Session: Fall Lecture Hours Per Week: 3 Tutorial Hours Per Week: 1 Lab Hours Per Week: 1 Guest Lecture?: No
2012/01/02 - 2012/04/30	Instructor, Computer Science, University of Western Ontario Course Title: CS 9535 and CS 4402B- Distributed and Parallel Systems Course Code: CS9635 - CS4402 Course Topic: Parallel Computing Course Level: Graduate Academic Session: Winter Lecture Hours Per Week: 3 Tutorial Hours Per Week: 0 Lab Hours Per Week: 0 Guest Lecture?: No
2012/01/01 - 2012/04/30	Instructor, Computer Science, University of Western Ontario Course Title: CS 2101B - Foundations of Programming for High Performance Computing Course Code: CS2101 Course Topic: Parallel Computing Course Level: Undergraduate Academic Session: Winter Lecture Hours Per Week: 3 Tutorial Hours Per Week: 1 Lab Hours Per Week: 1 Guest Lecture?: No

Student/Postdoctoral Supervision

Master's non-Thesis [n=2]

2016/9 - 2017/12 Principal Supervisor	 Haoze Yuan (Completed), University of Western Ontarioo Degree Name: PhD Specialization: Computer Science Student Degree Received Date: 2017/12 Thesis/Project Title: Multithreaded algorithms for integer programming on graphics processing units Present Position: Graduate Student, University of Western Ontarioo
2016/9 - 2017/12 Principal Supervisor	Yiming Guan (Completed), The University of Western Ontario Student Degree Received Date: 2017/12 Thesis/Project Title: Cache-oblivious algorithm for Fourier-Motzkin elimination Present Position: Software Engineer, Mycionics Inc., Canada

Master's Thesis [n=18]

2020/9 - 2021/12 Principal Supervisor	Juan-Pablo Gonzalez Trochez (In Progress), The University of Western Ontario Degree Name: MSc Specialization: Computer Science Student Degree Start Date: 2020/9 Student Degree Expected Date: 2021/12 Thesis/Project Title: Modular Methods for Computing the Intersection of a Hyper-Surface and the Quasi-Component of a RegularChain Present Position: Graduate student, University of Western Ontarioo
2020/9 - 2021/12 Principal Supervisor	Ryan Sandford (In Progress) , The University of Western Ontario Degree Name: MSc Specialization: Computer Science Student Degree Start Date: 2020/9 Student Degree Expected Date: 2021/12 Thesis/Project Title: Computing Intersection Multiplicities Present Position: Graduate student, University of Western Ontarioo
2019/9 - 2021/8 Principal Supervisor	Peter Valovcik (In Progress) , The University of Western Ontario Degree Name: MSc Specialization: Computer Science Student Degree Start Date: 2019/9 Student Degree Expected Date: 2021/8 Thesis/Project Title: Multithreaded Algorithms for Rational Function Arithmetic Present Position: Graduate student, University of Western Ontarioo
2018/9 - 2020/8 Principal Supervisor	Mahsa Kazemi (Completed), The University of Western Ontario Student Degree Start Date: 2017/9 Student Degree Received Date: 2020/8 Thesis/Project Title: An Implementation of Power Series in the BPAS Lib Present Position: Full-Stack Software Developer, Bell Canada

2017/9 - 2018/8 Principal Supervisor	Alexander Brandt (Completed) , University of Western Ontarioo Degree Name: PhD Specialization: Computer Science Student Degree Received Date: 2018/8 Thesis/Project Title: High Performance Sparse Multivariate Polynomials: Fundamental Data Structures and Algorithms Present Position: Graduate student, University of Western Ontarioo
2017/9 - 2020/12 Principal Supervisor	Amha Tsegaye (Completed), University of Western Ontarioo Student Degree Received Date: 2020/12 Thesis/Project Title: Applying Front End Compiler Process to Parse Polynomials in Parallel Present Position: Logistician, Walmart
2017/9 - 2020/8 Principal Supervisor	Colin Costello (Completed), University of Western Ontarioo Student Degree Received Date: 2020/8 Thesis/Project Title: A Generic Implementation of Fast Fourier Transforms for the BPAS Library Present Position: Software Developer
2017/9 - 2018/12 Principal Supervisor	Delaram TalaAshrafi (In Progress), University of Western Ontarioo Degree Name: PhD Specialization: Computer Science Student Degree Expected Date: 2018/12 Thesis/Project Title: Complexity Results for Fourier-Motzkin Elimination Present Position: Graduate student, University of Western Ontarioo
2016/9 - 2018/4 Principal Supervisor	Linxiao Wang (Completed), University of Western Ontarioo Degree Name: PhD Specialization: Computer Science Student Degree Received Date: 2018/4 Thesis/Project Title: Putting Fürer's Algorithm into Practice with the BPAS Library Present Position: Graduate student, University of Western Ontarioo
2016/9 - 2017/12 Principal Supervisor	Masoud Ataei (Completed), The University of Western Ontario Student Degree Received Date: 2017/12 Thesis/Project Title: On the Extended Hensel Construction and its Application to the Computation of Real Limit Points Present Position: Software Engineer, IBM Canada
2015/9 - 2016/12 Co-Supervisor	Davood Mohajerani (Completed) , The University of Western Ontario Thesis/Project Title: Big prime field FFT on the GPU Present Position: Software Developer
2014/9 - 2015/9 Principal Supervisor	Li Zhang (Completed), Western University Student Degree Received Date: 2015/9 Thesis/Project Title: Implementation techniques for the truncated Fourier transform Present Position: Software Engineer, IBM Canada
2013/1 - 2014/4 Principal Supervisor	Farnam Mansouri (Completed), Western University Thesis/Project Title: On the parallelization of integer polynomial multiplication Present Position: Software Development Engineer, Microsoft, Redmond, USA
2012/9 - 2013/12 Principal Supervisor	Sushek Shekar (Completed), Western University Thesis/Project Title: On the Interoperability of Programming Languages based on the Fork-Join Parallelism Model Present Position: Embedded Software Designer, Cisco, Canada

2012/9 - 2014/8 Co-Supervisor	Svyatoslav Covanov (Completed), Ecole Polytechnique (France) and Western University Thesis/Project Title: Putting Furer's Algorithm into Practice Present Position: PhD Candidate, Lorraine Research Laboratory in Computer Science and its Applications (LORIA), France
2010/9 - 2011/12 Principal Supervisor	Md Mohsin Ali (Completed), Western University Thesis/Project Title: On the Factor Refinement Principle and it's Implementation on Multicore Architectures Present Position: Staff Scientist, National Computational Infrastructure, The Australian National University
2010/9 - 2012/4 Principal Supervisor	Zunaid Haque (Completed) , Western University Thesis/Project Title: Multi-threaded real root isolation on multi-core architectures Present Position: QA Analyst, Manulife, Toronto, ON
2008/9 - 2010/8 Principal Supervisor	Liyun Li (Completed) , Western University Thesis/Project Title: Efficient Evaluation of Large Polynomials Present Position: Full Stack Web Developer, OANDA, San Francisco, California
Doctorate [n=19]	
2020/9 - 2024/8 Principal Supervisor	Haoze Yuan (In Progress) , The University of Western Ontario Degree Name: PhD Specialization: Computer Science Student Degree Start Date: 2020/9 Student Degree Expected Date: 2024/8 Thesis/Project Title: Data Reshaping in Algebraic Computations Present Position: Graduate student, University of Western Ontarioo
2019/1 - 2022/12 Principal Supervisor	Delaram TalaAshrafi (In Progress) , The University of Western Ontario Degree Name: PhD Specialization: Computer Science Student Degree Start Date: 2018/1 Student Degree Expected Date: 2022/12 Thesis/Project Title: Automatic Generation of Pipelined Code in Symbolic Computation Present Position: Graduate student, University of Western Ontarioo
2018/9 - 2022/8 Principal Supervisor	Alexander Brandt (In Progress) , The University of Western Ontario Degree Name: PhD Student Degree Start Date: 2018/9 Student Degree Expected Date: 2022/8 Thesis/Project Title: The Design & Implementation of an Open-Source High-Performance Polynomial System Solver Present Position: Graduate student, University of Western Ontarioo
2017/9 - 2021/8 Principal Supervisor	Mehdi Samadieh (In Progress), University of Western Ontarioo Student Degree Expected Date: 2021/8 Thesis/Project Title: A quadratic lifting scheme for the extended Hensel construction Present Position: PhD graduate student, University of Western Ontarioo
2017/9 - 2021/8 Principal Supervisor	Mohammadali Asadi (In Progress), University of Western Ontarioo Student Degree Expected Date: 2021/8 Thesis/Project Title: Computing topological closures in higher dimension Present Position: PhD graduate student, University of Western Ontarioo

2017/5 - 2022/4 Principal Supervisor	Lin-Xiao Wang (In Progress) , The University of Western Ontario Degree Name: PhD Specialization: Computer Science Student Degree Start Date: 2017/5 Student Degree Expected Date: 2022/4 Thesis/Project Title: On the Periodicity of Integer Convex Hulls of Parametric Polyhedral Sets Present Position: Graduate student, University of Western Ontarioo
2017/1 - 2021/3 Principal Supervisor	Davood Mohajerani (Completed), The University of Western Ontario Student Degree Received Date: 2021/3 Thesis/Project Title: Arbitrary precision arithmetic on the GPU Present Position: Software Developer
2016/9 - 2017/12 Co-Supervisor	Rui-Juan Jing (Completed), Chinese Academy of Sciences & University of Western Ontario Student Degree Received Date: 2017/12 Thesis/Project Title: Computing Integer Points of Polyhedral Sets Present Position: Assistant Professor, Jiangsu University, China
2016/1 - 2017/10 Co-Supervisor	Egor Chesakov (Withdrawn), The University of Western Ontario Thesis/Project Title: Vascular Tree Structure: Fast Curvature Regularization and Validation Present Position: research engineer, Microsoft, Redmond, USA
2015/9 - 2017/12 Academic Advisor	Mahsa Kazemi (Completed), Ispahan University of Technology & University of Western Ontario Student Degree Start Date: 2017/12 Thesis/Project Title: Theory and implementation for local bifurcations analysis of smooth maps Present Position: Full-Stack Software Developer, Bell Canada
2014/9 - 2019/4 Co-Supervisor	Steven Thorton (Completed), The University of Western Ontario Student Degree Received Date: 2019/4 Thesis/Project Title: Algorithms for Bohemian Matrices Present Position: Data Scientist, RN Financial Corporation
2013/9 - 2018/1 Co-Supervisor	Robert H. C. Moir (Completed), University of Western Ontarioo Student Degree Received Date: 2018/1 Thesis/Project Title: Feasible Computation in Symbolic and Numeric Integration Present Position: Applied Mathematician and Philosopher of Science
2012/9 - 2017/3 Principal Supervisor	Xiaohui Chen (Completed), Western University Student Degree Received Date: 2017/3 Thesis/Project Title: MetaFork: A Compilation framework for concurrency models targeting hardware accelerators Present Position: Senior Software Engineer, Huawei, China
2012/9 - 2016/11 Principal Supervisor	Ning Xie (Completed), Western University Thesis/Project Title: Towards Comprehensive Parametric Code Generation Targeting Graphics Processing Units in Support of Scientific Computation Present Position: Compiler Software Engineer, Cerebras Systems, Toronto, Canada
2012/5 - 2017/5 Principal Supervisor	Parisa Alvandi (Completed), Western University Thesis/Project Title: Computing Limit Points of Quasi-components of Regular Chains and its Applications Present Position: Researcher, Pixyz Software, Montreal, Canada

2009/9 - 2014/12 Co-Supervisor	Paul Vrbik (Completed), Western University Student Degree Received Date: 2014/12 Thesis/Project Title: Computing Intersection Multiplicity via Triangular Decomposition Present Position: Assistant Professor, University of Toronto at Mississauga
2009/1 - 2013/11 Principal Supervisor	Sardar Anisul Haque (Completed), Western University Thesis/Project Title: Hardware Acceleration Technologies in Computer Algebra: Challenges and Impact. Present Position: Assistant Professor, Alcorn State University
2007/9 - 2011/8 Principal Supervisor	Changbo Chen (Completed), Western University Thesis/Project Title: Solving Polynomial Systems via Triangular Decomposition Present Position: Associate Professor, Chongqing Institute of Green and Intelligent Technology, Chinese Academy of Sciences
2006/9 - 2011/1 Principal Supervisor	Wei Pan (Completed) , Western University Thesis/Project Title: Algorithmic Contributions to the Theory of Regular Chains Present Position: Senior Compiler Engineer, NVIDIA, Santa Clara, California
Post-doctorate [n=8]	
2018/3 - 2019/8 Principal Supervisor	Rui-Juan Jing (Completed) , The University of Western Ontario Thesis/Project Title: Computing the Integer Points of a Parametric Polyhedron Present Position: Assistant Professor, Jiangsu University , China
2018/1 - 2019/12 Principal Supervisor	Robert H. C. Moir (Completed), The University of Western Ontario Thesis/Project Title: Triangular Decomposition of Polynomial Systems with the BPAS library Present Position: Applied Mathematician and Philosopher of Science
2017/5 - 2017/8 Principal Supervisor	Parisa Alvandi (Completed), University of Western Ontarioo Thesis/Project Title: Implementation of Regular chains in the Basic Polynomial Algebra Subprograms Present Position: Researcher, Pixyz Software, Montreal, Canada
2014/3 - 2015/2 Principal Supervisor	Liangyu Chen (Completed), The University of Western Ontario Thesis/Project Title: Resultant computation on the GPU Present Position: Assistant Professor, East China Normal University, China
2014/3 - 2014/7 Principal Supervisor	Yi Li (Completed), The University of Western Ontario Thesis/Project Title: Linear Programming over Rational Functional Fields Present Position: Researcher, Chongqing Institute of Green and Intelligent Technology, Chinese Academy of Sciences
2011/9 - 2013/12 Principal Supervisor	Changbo Chen (Completed), The University of Western Ontario Thesis/Project Title: Computer Algebra and High-Performance Computing Support for Model Predictive Control Present Position: Associate Professor, Chongqing Institute of Green and Intelligent Technology, Chinese Academy of Sciences
2011/5 - 2012/1 Co-Supervisor	Yuzhen Xie (Completed) , The University of Western Ontario Thesis/Project Title: Cache-oblivious and adaptive algorithms in symbolic computation Present Position: Data Scientist II, TD Bank, London, Canada
2009/9 - 2012/12 Principal Supervisor	Rong Xiao (Completed), The University of Western Ontario Thesis/Project Title: High Performance Real Solving Tools in Support of Industrial Applications Present Position: Senior Software Engineer, Amazon Web Services, Mississauga, Ontario, Canada

Publications

Journal Articles

- Parisa Alvandi*, Masoud Ataei*, Mahsa Kazemi* and Marc Moreno Maza. (2020). On the Extended Hensel Construction and its application to the computation of real limit points. J. Symb. Comput.98: 120--162. Published, Refereed?: Yes
- 2. Robert H. C. Moir^{*}, Robert M. Corless, Marc Moreno-Maza and Ning Xie^{*}. (2020). Symbolic-numeric integration of rational functions. Numer. Algorithms. 83(4): 1295--1320. Published,

Refereed?: Yes, Open Access?: No

- Francois Boulier, Francois Lemaire, Adrien Poteaux and Marc Moreno Maza. (2019). An equivalence theorem for regular differential chains. J. Symb. Comput.93: 34--55.
 Published, Refereed?: Yes, Open Access?: No
- <u>4.</u> Rui-Juan Jing* and Marc Moreno Maza. (2018). Computing the integer points of a polyhedron. ACM Commun. Comput. Algebra. 52(4): 126--129.
 Published,
 Refereed?: Yes, Open Access?: No
- 5. Sardar Anisul Haque*, X. Li*, Farnam Mansouri*, Marc Moreno Maza, Davood Mohajerani*, Wei Pan. (2017). CUMODP: a CUDA library for modular polynomial computation. ACM Commun. Comput. Algebra. 51(3): 89--91.
 Published, Refereed?: Yes, Open Access?: No
- 6. Rui-Juan Jing* and Marc Moreno Maza. (2017). The Polyhedra library in maple. ACM Commun. Comput. Algebra. 51(3): 86--88.
 Published,
 Refereed?: Yes, Open Access?: No
- Parisa Alvandi*, Mahsa Kazemi*, Marc Moreno Maza. (2016). Computing limits with the Regularchains and Powerseries libraries: from rational functions to Zariski closure. ACM Comm. Computer Algebra. 50(3): 93--96. Published, Deferred 2: Ma

Refereed?: Yes, Open Access?: No

 Changbo Chen, Svyatoslav Covanov*, Farnam Mansouri*, Robert H. C. Moir*, Marc Moreno Maza, Ning Xie*, Yuzhen Xie. (2016). Basic Polynomial Algebra Subprograms. ACM Comm. Computer Algebra. 50(3): 97-100.
 Published,

Refereed?: Yes, Open Access?: No

- <u>9.</u> Changbo Chen*, Marc Moreno Maza. (2016). Quantifier elimination by cylindrical algebraic decomposition based on regular chains. J. Symb. Comput.75: 74--93.
 Published, Refereed?: Yes, Open Access?: No
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