

Yurij Salmaniw

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EDUCATION

University of Alberta, Edmonton, Alberta

Doctor of Philosophy, In Progress

Major: Applied Mathematics

Advisors: Dr. Hao Wang, Dr. Zhongwei Shen

Extra Curricular: Academic Coordinator for SIGMAS

McMaster University, Hamilton, Ontario

Master of Science, Thesis stream, May 2018

Major: Applied Mathematics

Advisors: Dr. Lia Bronsard, Dr. Stanley Alama

Thesis: "Existence and Regularity of Solutions to Some Singular Parabolic Systems"

Extra Curricular: Treasurer of the McMaster SIAM Student Chapter

Cape Breton University, Sydney, Nova Scotia

Bachelor of Science with Honours, April 2016

Major: Mathematics

Advisor: Dr. Shaohua Chen

Thesis: "Global Existence for a Singular General Activator-Inhibitor Model"

Extra Curricular: Co-President of the Math Society

Assumption College School, Brantford, Ontario

Honours Graduate, June 2011

WORK EXPERIENCE

Teaching Assistant

Edmonton, Alberta

September, 2018 – Current

- Working as a teaching assistant for introductory calculus and linear algebra
- Responsible for grading assignments in a timely manner using the Crowdmark system
- Responsible for providing appropriate and instructive feedback on submitted assignments

Tutorial Instructor

Hamilton, Ontario

January 2018 – April 2018

- Responsible for conducting tutorials for a differential equations course three times a week
- Responsible for creating an interactive and encouraging learning environment while also providing a clear and understandable presentation of the relevant material
- Responsible for addressing specific issues the students may have with the material
- Responsible for holding regular office hours to help students in a more personal environment
- Responsible for marking midterms in a timely manner

Teaching Assistant

Hamilton, Ontario

September 2016 – December 2017

- Worked as a teaching assistant for calculus and differential equations courses
- Responsible for helping students with the Matlab components of the courses
- Responsible for marking assignments and exams in a timely manner
- Responsible for providing interactive review sessions before midterms and final exams

Tutor

Hamilton, Ontario

September 2016 – December 2017

- Worked as a tutor at the math help center within McMaster University
- Responsible for teaching and assisting students in various mathematical subjects, usually first and second year calculus or linear algebra

- Provided a welcoming environment and a positive attitude for younger students

Student Research Assistant

Sydney, Nova Scotia

May 2016 – August 2016

- Worked as a research assistant under the supervision of Dr. Shaohua Chen
- Explored properties of some partial differential equations, specifically concerned with the existence and regularity of solutions to singular parabolic systems
- Reviewed papers for publication, wrote up sections of documents into latex, explored numerical simulations for theoretical results using Matlab

SCHOLARSHIPS AND AWARDS

- Eoin L Whitney Scholarship – (\$2200) 2019
- President’s Doctoral Prize of Distinction – (\$10,000) 2019
- NSERC PGS-D Graduate Scholarship – (\$63,000 over 3 years) 2019
- Pundit RD Sharma Memorial Award – (\$5000) 2019
- University of Alberta Entry Scholarship – (\$10,000) 2018
- Ontario Graduate Scholarship – (\$15,000) 2017
- McMaster Research Scholarship – (\$6000) 2016
- Milos Novotny Fellowship – (\$4000) 2016
- McMaster Graduate Scholarship – (\$6000) 2016
- NSERC Undergraduate Student Research Award – (\$6800) 2016
- NSERC Undergraduate Student Research Award – (\$6800) 2015
- Cape Breton University Incourse Scholarship – (\$500 per semester) 2012 – 2016

PUBLICATIONS

- (With S. Chen & R. Xu) “*Bounded Solutions to a Singular Parabolic System*”, J. Math. Anal. Appl. 455(2017), No. 2, 963-978.
- (With S. Chen & R. Xu) “*Global Existence for a Singular Gierer-Meinhardt System*”, J. Diff. Eqs. 262(2017), No. 3, 2940-2960.

CONFERENCES AND PRESENTATIONS

- Cape Breton University Summer Research Speaker Series August 2018
- 6th G.J. Butler Memorial Conference – DE’s Session July 2018
- CMS Summer Meeting – Student Research Session June 2018
- McMaster University AIMS Lab Seminar January 2018
- McMaster University AIMS Lab Seminar November 2017
- Mathematical Congress of the Americas – Student Research Session July 2017
- CMS Winter Meeting – Student Research Session December 2016
- McMaster University AIMS Lab Seminar November 2016
- Cape Breton University SnapShot Thesis April 2016
- Science Atlantic – Mathematics and Statistics Conference October 2015
- Cape Breton University Student Research Talk Series August 2015

COMPUTER SKILLS

- Proficient in Matlab, C++, Maple, Minitab and SPSS
- Highly proficient in the use of latex for creating mathematical documents and presentations
- Advanced knowledge within Microsoft Word, Excel and PowerPoint