

Curriculum Vitae

BIOGRAPHICAL:

Name Mahin Salmani
Title Senior Teaching Associate
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EDUCATION:

- Master of Statistics, Department of Statistics, Ohio State University, June 2007
- Master of Applied Mathematics, Department of Mathematics and Statistics, University of Victoria, Canada, July 2005
Supervisor Professor Pauline van den Driessche
Thesis Title A Model for Disease Transmission in a Patchy Environment
- B.Sc., Major in Mathematics and Minor in Computer, University of Isfahan, Iran, May 1995

EMPLOYMENT:

Employment History at UNB

- August 2008 to Present Instructor, Department of Mathematics and Statistics, University of New Brunswick
- July 2007- July 2008 Jr. Data Analyst, Canadian Research Institute for Social Policy, University of New Brunswick

Previous Employments

- May 1997- September 1999 Computer Programmer, Computer Center, University of Isfahan, Isfahan, Iran
- January 1995- May 1997 System Administrator, Mathematics Department, University of Isfahan, Isfahan, Iran

DISSEMINATION OF KNOWLEDGE:

UNB Teaching Experience

Summer 2019 Math1833 (N =11)	Fall 2019 Math1003 (N=200) Math1823 (N=65) Math1833 (N=175)	Winter 2020 Math1013 (N=240) Math1823 (N=220) Math1833 (N=50)
Summer 2018 Math1503 (N =29)	Fall 2018 Math1003 (N=200) Math1823 (N=60)	Winter 2019 Math1503 (N=70) Math1013 (N=200) Math1833 (N=34)
Summer 2017 Math1833 (N =18)	Fall 2017 Math2513 (N=85) Math1823 (N=60)	Winter 2018 Math1503 (N=80) Math1003 (N=160)
Summer 2016 Math1833 (N=14)	Fall 2016 Math1503 (N = 80) Math2513 (N=90) Math1823 (N=52)	Winter 2017 Math1003 (N=140) Math1833 (N=50)
Summer 2015	Fall 2015 Math1003 (200) Math1823 (N=45)	Winter 2016 Math1503 (N=44) Math1003 (N =95)
Summer 2014 Math1503 (N=25)	Fall 2014 SICK LEAVE	Winter 2015 SABBATICAL
Summer 2013	Fall 2013 Stat2263 (N = 99) Math1003 (N=180)	Winter 2014 Stat2263 (N=60) Math1013 (N =114)
Summer 2012	Fall 2012 MATERNITY LEAVE	Winter 2013
Summer 2011 Math1833 (N=9)	Fall 2011 Math1003 (N=170) Math1503 (N=90)	Winter 2012 Math1013 (N=150) Math1833 (N=62)
Summer 2010 Math1833 (N=15)	Fall 2010 Math1503 (N=53) Math1013 (N=90) Math1823 (N=73)	Winter 2011 Math1503 (N=124) Math1013 (N=120)
Summer 2009 Math1013 (N=33)	Fall 2009 Math1503 (N=75) Math1003- Long Section (N=76) Math1833 (N=38)	Winter 2010 Math1503 (N=95) Math1003 Long Section (N=76) Math1823 (N=62)
Summer 2008	Fall 2008 Math1003 (N=81) Math1503 (N=79) Math1013 (N=22)	Winter 2009 Math1013 (N=61) Math 1823 (N=65)
Summer 2007	Fall 2007	Winter 2008 Stat2593 (N=64)

Math1003 (Introduction to Calculus I)

Math1013 (Introduction to Calculus II)

Math1503 (Introduction to Linear Algebra)

Math1823 (Calculus for Management and Science)

Math1833 (Finite Mathematics)

Math2513 (Multivariable Calculus for engineers)

Stat2263 (Statistics for Non-Science Majors)

Stat2593 (Probability and Statistics for Engineers)

Nomination: Nominated for Allan P. Stuart Award, UNB, 2016-2017

Incorporating Technology into Teaching

- Flipped classroom for Math1823 (Calculus for Managements and Science)- Short video lectures prepared by the instructor are viewed by students at home before the class session, while in-class time is devoted to exercises, projects, or discussions.
- Latex review problem sets/review notes for Math1503
- Preparing and delivering all lectures for Stat2263, Math1503, Math1003, Math1013, and Math1833 in PowerPoint.
- Preparing and posting video lectures for parts of Math1013 and Math1833
- Preparing and posting a video lecture for final exam review Math1833

SERVICE:

- 2019-2020
 - Advisor- Mathematics Major
 - Advisor- Mathematics Minor
 - Science Accommodations Working Group
 - Course Assignment
 - NB Math Competition
- 2018-2019
 - Advisor- Mathematics Minor
 - Ethics
 - NB Math Competition Committee/Organizing afternoon activities
 - Assisting in marking COMC (Canadian Open Math Competition)
 - Contract Academic Instructor Assessment Committee
- 2017-2018
 - Advisor- Mathematics Minor
 - Undergraduate Curriculum Committee
 - Computing
 - High School Mathematics Curriculum Development Advisory Committee, Department of Education NB
 - Organizing afternoon activities for NB Math Competition Committee
 - Assisting in marking COMC (Canadian Open Math Competition)
 - Library
- 2016-2017
 - Advisor- Mathematics Minor
 - Assisting in Precalculus Workshop (August 2016)
 - Budget and Space Committee
 - Course Assignment Committee
 - High School Mathematics Curriculum Development Advisory Committee, Department of Education NB
 - Helping with Math Learning Centre
 - NB Math Competition Committee-(Organizer for afternoon activities)
 - Nominating Committee
 - Undergraduate Curriculum Committee
- 2015-2016
 - Advisor- Mathematics Minor
 - Undergraduate Curriculum Committee
 - Contract Academic Instructor Assessment Committee
 - Library
 - NB Math Competition Committee
 - Co-Coordinator of the Math Learning Centre

- Assisting in Precalculus Workshop (August 2015)
- 2014-2015 Sick Leave/Sabbatical Leave
- 2013-2014
 - Co-Coordinator of the Math Learning Centre
 - NB Math Competition Committee
 - Undergraduate Curriculum Committee
 - UNB Representative in High School Mathematics Curriculum Development Advisory Committee (HS Math CDAC), Department of Education NB
 - Ethics Committee
- 2012-2013 Maternity Leave
- 2011-2012
 - NB Math Competition Committee
 - Math Help Centre Committee
 - Undergraduate Curriculum Committee
 - UNB Representative in HS Math CDAC, Department of Education NB
 - Midterm Reviews for Math Learning Center, Math1503 Fall 2011, 4 Sections
 - Grade 12 Mathematics Common Exam Group
 - Assisting in Precalculus Workshop (August 2011)
- 2010-2011
 - NB Math Competition Committee
 - Math Help Centre Committee
 - Computing Committee
 - UNB Representative in HS Math CDAC, Department of Education NB
 - Review for Math Learning Center, Math1823 Fall 2010, Math1503 Winter 2011
 - Grade 12 Mathematics Common Exam Group
 - Assisting in marking Maritime papers
- 2009-2010
 - NB Math Competition Committee
 - UNB Representative in HS Math CDAC, Department of Education NB
 - Grade 12 Mathematics Common Exam Group
 - Assisting in Precalculus Workshop
- 2008-2009
 - NB Math Competition Committee
 - Assisting in Precalculus Workshop
 - Assisting in marking Maritime papers
 - Review for Math Learning Center- Math1013 Fall 2008, Math1823 Winter 2009

PUBLICATIONS:

- Refereed papers
 - A.L. Kozyrskyj, N.L. Letourneau, L. J. Kang, **M. Salmani** (2016) *Associations between postpartum depressive symptoms and childhood asthma diminish with child age*, Journal of Clinical & Experimental Allergy, Vol 47, (pages 324-330)
 - N. Letourneau, **M. Salmani**, L. Duffett-Leger (2010), *Maternal depressive symptoms and parenting of children from birth to 12 years*, Western Journal of Nursing, Vol. 32, 5, 662-685
 - N. Letourneau, L. Duffett-Leger, **M. Salmani**, (2009). *The role of paternal support in the behavioural development of children exposed to postpartum depression*. Canadian Journal of Nursing Research, 41(3), 87-106
 - **M. Salmani**, P. van den Driessche, *A model for disease transmission in a patchy environment*, Discrete and Continuous Dynamical Systems-Series B, 6(1) 185–202 (2006).
Nominated for the best student paper award 2006 of MITACS
- Non-refereed Papers
 - R. Pyke, K. Casteels, N. Azer, Y. Patrachenko, M. Salmani, I. Vassilve, M. Wang, P. Wang, M.A. Yassaie, B. Zeng, J. Zhu, *Path planning for an autonomous robot*, May 2004, Pacific

Institute for the Mathematical Sciences, proceeding of The Seventh PIMS Graduate Industrial Math Modeling Camp, 4054 (2004).

available online at

[http //www.pims.math.ca/publications/proceedings/gimmc04.pdf](http://www.pims.math.ca/publications/proceedings/gimmc04.pdf)

- S. Kim, H. Long, W. Shi, R. Pyke, L. Wu, S. Peker, B. Chan, R. Haiduc, A. Maxim, V. Abramov, B. Zeng, P. Wang, R. Liao, Y. Petrachenko, Y. Romaniuk, M. Wang, Z. Wang, M. Yassaei, G. Mititica, S. Song, X. Zhang, S. Li, T. S. Vassilev, N. Azer, M. Salmani, J. Zhu, May 17-21 (2004). *Analyzing network traffic for malicious hacker activity*, Proceedings of the 8th Annual Industrial Problem Solving Workshop, Vancouver, 25-36 (2004).

available online at

[http //www.pims.math.ca/publications/proceedings/ipsw8.pdf](http://www.pims.math.ca/publications/proceedings/ipsw8.pdf)

RESEARCH INTERESTS:

Hierarchical Modeling, Analysis of Large-Scale Social Surveys, Mathematical Modeling of Infectious Diseases (Epidemiology), Mathematical Biology

PRESENTATIONS:

- Venn Diagrams, May 13 2018, UNB, AARMS-Girls Guides camp.
- Mathematical Modeling of Communicable Diseases, October 2009, UNB, District 18 Grade 9–12 Mathematics Educators.
- Root Finding Methods, UNB Math Camp, May 2009.
- Maternal Depression and Parenting Trajectories Over Time, Statistics Seminar, UNB, April 2009.
- Statistical Analysis with R- Short Course, December 2007, Canadian Research Institute for Social Policy.
- A Model for Disease Transmission in a Patchy Environment, UNB, November 2007.
- A Model for Disease Transmission in a patchy environment, poster presented at CAIMS Annual Meeting, Winnipeg, June 2005.

ATTENDED CONFERENCES/WORKSHOPS:

- Wake Them Up! Engaging Students in the 21st Century Classroom (WEBINAR), June 2017, UNB
- CMS Summer Meeting, June 2015 , UPEI, Charlottetown.
- Diploma in University Teaching, Fall 2013, UNB CETL, Fredericton.
- Presentation Skills A Makeover Workshop, August 14, 2013, UNB CETL, Fredericton.
- Teaching Essentials Workshop, August 30, 2011, UNB CETL, Fredericton.
- CMS meeting, Math Biology Workshop, June 6-7, 2010, Fredericton, NB.
- Canadian Health Economics Study Group, Wu Conference Centre, University of New Brunswick, Fredericton, May 15–16, 2008.
- Hierarchical Linear Modeling, Montreal, QC, October 24-26 2007.
- MITACS Team Meeting, National Microbiology Lab, Winnipeg, Manitoba, June 15, 2005.
- Canadian Applied and Industrial Mathematics (CAIMS) Annual Meeting, University of Manitoba, Winnipeg, Manitoba, June 16-18, 2005
- MITACS-PIMS-MSRI Special Program on Infectious Diseases, Banff, Alberta, Canada, June 19-27, 2004
- 8th PIMS-MITACS Industrial Problem Solving Workshop (IPSW), University of British Columbia, BC, May 17-21, 2004
- 7th PIMS Graduate Mathematics Modeling Camp (GMMC), University of Victoria, BC, May 10-14, 2004

