

# Dan Wolczuk

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CONTACT INFORMATION	Dan Wolczuk Math Undergraduate Office Faculty of Mathematics University of Waterloo 200 University Ave W Waterloo, ON, Canada N2L 3G1	Phone: 1-519-888-4567 ext. 36247 E-mail: dstwolcz@uwaterloo.ca Website: www.wolczuk.com
RESEARCH INTERESTS	Scholarship of teaching and learning in mathematics: benefits of teaching students how to learn, assessments for learning, gamification.	
EDUCATION	<b>University of Waterloo, Waterloo, ON, Canada</b> MMath, Pure Mathematics, 2004 <ul style="list-style-type: none"><li>• Thesis Topic: Intervals with few prime numbers.</li><li>• Advisor: Cameron Stewart</li></ul> <b>University of Northern British Columbia, BC, Canada</b> BSC, Mathematics, 2001 <ul style="list-style-type: none"><li>• Research Topic: Inhomogeneous Diophantine approximations.</li><li>• Advisor: Chris Pinner</li></ul>	
AWARDS AND DISTINCTIONS	2022	Excellence in Teaching Award, Canadian Mathematical Society
	2021	Distinguished Teacher Award, University of Waterloo
	2013	Distinction in Teaching Award, Faculty of Mathematics, University of Waterloo
	2013	Instructor of the Year, Mathematics Student Society, University of Waterloo
	2001	NSERC Canada Graduate Scholarship
TEACHING EXPERIENCE	<b>Continuing Lecturer, Faculty of Mathematics, University of Waterloo 2004 - present</b> Course Development 2020 Revised Calculus 1 and 2 for Science Students 2014 Linear Algebra for Mathematical Teaching Online 2013 Linear Algebra 2 for Honours Mathematics Online 2012 Linear Algebra 1 for Honours Mathematics Online 2009 Revised Linear Algebra 1 and 2 for Honours Mathematics 2008 Revised Calculus 3 for Honours Mathematics	

Courses Taught (\* indicates coordinating a multi-section course)

<b>Term</b>	<b>Course</b>	<b>Title</b>
Fall 2021	Math 137	Calculus 1 for Honours Math (3 sections)
Spring 2021	Math 128	Calculus 2 for Science (online)
Winter 2021	Math 128*	Calculus 2 for Science (online)
Fall 2020	PMath 340	Elementary Number Theorem (online)
Fall 2020	Math 127*	Calculus 1 for Science (online)
Spring 2020	Math 636	Linear Algebra for MMT (online)
Winter 2020	Math 128	Calculus 2 for Science (2 sections)
Fall 2019	Math 235	Linear Algebra 2 for Honours Math
Fall 2019	PMath 340	Elementary Number Theorem
Fall 2019	Math 137	Calculus 1 for Honours Math
Winter 2019	Math 136*	Linear Algebra 1 for Honours Math (2 sections)
Fall 2018	Math 235*	Linear Algebra 2 for Honours Math (2 sections)
Spring 2018	Math 136*	Linear Algebra 1 for Honours Math (2 sections)
Spring 2018	Math 636	Linear Algebra for MMT (online)
Winter 2018	Math 136*	Linear Algebra 1 for Honours Math (2 sections)
Fall 2017	Math 235*	Linear Algebra 2 for Honours Math (2 sections)
Spring 2017	Math 235*	Linear Algebra 2 for Honours Math
Winter 2017	Math 118	Calculus 2 for Engineering (2 sections)
Winter 2017	Math 136*	Linear Algebra 1 for Honours Math
Fall 2016	Math 116	Calculus 1 for Engineering
Fall 2016	Math 235*	Linear Algebra 2 for Honours Math (2 sections)
Winter 2016	Math 118	Calculus 2 for Engineering
Winter 2016	Math 136*	Linear Algebra 1 for Honours Math
Fall 2015	Math 235*	Linear Algebra 2 for Honours Math (2 sections)
Fall 2015	Math 237	Calculus 3 for Honours Math
Spring 2015	Math 136	Linear Algebra 1 for Honours Math (online)
Spring 2015	Math 235*	Linear Algebra 2 for Honours Math
Spring 2015	Math 235	Linear Algebra 2 for Honours Math (online)
Winter 2015	Math 136*	Linear Algebra 1 for Honours Math (2 sections)
Fall 2014	Math 136*	Linear Algebra 1 for Honours Math
Fall 2014	Math 136	Linear Algebra 1 for Honours Math (online)
Spring 2014	Math 235*	Linear Algebra 2 for Honours Math
Spring 2014	Math 636	Linear Algebra for MMT (online)
Winter 2014	Math 136	Linear Algebra 1 for Honours Math (online)
Winter 2014	Math 138*	Calculus 2 for Honours Math
Fall 2013	Math 137*	Calculus 1 for Honours Math
Fall 2013	Math 138*	Calculus 2 for Honours Math (2 sections)
Spring 2013	Math 137*	Calculus 1 for Honours Math
Spring 2013	Math 235*	Linear Algebra 2 for Honours Math
Spring 2013	Math 235	Linear Algebra 2 for Honours Math (online)
Winter 2013	Math 136*	Linear Algebra 1 for Honours Math
Winter 2013	Math 136	Linear Algebra 1 for Honours Math (online)
Winter 2013	Math 235*	Linear Algebra 2 for Honours Math
Fall 2012	Math 235*	Linear Algebra 2 for Honours Math (2 sections)
Spring 2012	AMath/PMath 332	Applied Complex Analysis
Winter 2012	Math 136*	Linear Algebra 1 for Honours Math (2 sections)
Winter 2012	Math 235*	Linear Algebra 2 for Honours Math
Fall 2011	Math 135	Algebra for Honours Math
Fall 2011	Math 235*	Linear Algebra 2 for Honours Math
Spring 2011	Math 235*	Linear Algebra 2 for Honours Math
Spring 2011	AMath/PMath 332	Applied Complex Analysis

<b>Term</b>	<b>Course</b>	<b>Title</b>
Winter 2011	Math 136*	Linear Algebra 1 for Honours Math
Winter 2011	Math 235*	Linear Algebra 2 for Honours Math
Winter 2011	Math 237*	Calculus 3 for Honours Math
Fall 2010	Math 136*	Linear Algebra 1 for Honours Math
Fall 2010	Math 235*	Linear Algebra 2 for Honours Math
Fall 2010	Math 237*	Calculus 3 for Honours Math
Spring 2010	Math 136*	Linear Algebra 1 for Honours Math
Spring 2010	Math 235*	Linear Algebra 2 for Honours Math (2 sections)
Winter 2010	Math 136*	Linear Algebra 1 for Honours Math
Winter 2010	Math 235*	Linear Algebra 2 for Honours Math
Winter 2010	Math 237*	Calculus 3 for Honours Math
Fall 2009	Math 136*	Linear Algebra 1 for Honours Math
Fall 2009	Math 235*	Linear Algebra 2 for Honours Math
Fall 2009	Math 237*	Calculus 3 for Honours Math
Spring 2009	Math 136*	Linear Algebra 1 for Honours Math
Spring 2009	Math 235*	Linear Algebra 2 for Honours Math
Spring 2009	Math 237*	Calculus 3 for Honours Math
Winter 2009	Math 136*	Linear Algebra 1 for Honours Math
Winter 2009	Math 138	Calculus 2 for Honours Math
Winter 2009	Math 237*	Calculus 3 for Honours Math
Fall 2008	Math 137	Calculus 1 for Honours Math
Fall 2008	Math 237*	Calculus 3 for Honours Math (2 sections)
Spring 2008	Math 138	Tutorials for Calculus 2 for Honours Math
Spring 2008	Math 237*	Calculus 3 for Honours Math
Winter 2008	Math 138	Calculus 2 for Honours Math
Winter 2008	Math 237*	Calculus 3 for Honours Math (2 sections)
Fall 2007	Math 217	Calculus 3 for Chemical Eng
Fall 2007	Math 237*	Calculus 3 for Honours Math (2 sections)
Spring 2007	Math 138	Calculus 2 for Honours Math
Winter 2007	Math 118*	Calculus 2 for Engineering
Winter 2007	Math 218	Differential Equations for Engineering
Fall 2006	Math 116*	Calculus 1 for Engineering
Fall 2006	Math 137	Calculus 1 for Honours Math (2 sections)
Spring 2006	Math 118*	Calculus 2 for Engineering
Spring 2006	Math 237*	Calculus 3 for Honours Math
Winter 2006	Math 237*	Calculus 3 for Honours Math
Fall 2005	Math 116	Calculus 1 for Engineering
Fall 2005	Math 137	Calculus 1 for Honours Math (2 sections)
Spring 2005	Math 136*	Linear Algebra 1 for Honours Math
Winter 2005	Math 127	Calculus 1 for Science (2 sections)
Winter 2005	AMath/PMath 332	Applied Complex Analysis
Fall 2004	Math 125	Applied Linear Algebra 1 (DE)
Fall 2004	Math 127	Calculus 1 for Science
Spring 2004	Math 118	Calculus 2 for Engineering

PROFESSIONAL  
SERVICE

**External Service**

2021 - Present	CMS Education Committee
2021 - Present	Fields Elementary Program

## University of Waterloo Committees

2010 - Present	Math Faculty Undergraduate Affairs Committee
2016 - 2020	Senate Undergraduate Council
2016 - 2019	Senate
2012 - 2014	Senate Undergraduate Council

## Additional Service

2021 - Present	Director of Mathematical Studies Program
2021 - Present	Transfer Credits for core math courses
2020 - 2021	Covid-19 Teaching Team member
2018 - Present	Graduate Student Teacher Training Program Instructor\Organizer
2016 - 2020	Undergraduate Student Learning How to Learn Seminars Instructor\Organizer
2016 - 2018	Transfer Credits for core math courses
2011 - 2020	Mathematics Contest Committee
2008 - Present	Outreach and recruitment activities: Fall Open House, March Break Open House, You@UWaterloo Day, Ontario University Fair
2007 - 2011	Math Circles Instructor\Organizer

## Academic Advising

2014 - 2016	General Advising
2008 - 2019	Plans for Students Outside the Math Faculty

## PUBLICATIONS

### Books and Course Notes

Norman, D., Wolczuk, D. (2019) *Introduction to Linear Algebra for Science and Engineering (3rd edition)*. Pearson Publishing. ISBN # 978-0-13-468263-1

Wolczuk, D. (2016) *Linear Algebra 1 and 2 Course Notes*. Pearson Publishing. ISBN # 978-1-323-56954-2

Wainwright, J., West, J., Wolczuk, D. (2016) *Multivariable Calculus Course Notes*. Pearson Publishing. ISBN # 978-1-323-48163-9

Norman, D., Wolczuk, D. (2012) *Student Solution Manual for Introduction to Linear Algebra for Science and Engineering (2nd edition)*. Pearson Publishing. ISBN # 978-0-321-80762-5

### Refereed Journal Articles

Pinner, C., Wolczuk, D. (2001) *On the inhomogeneous Hall's ray of period one quadratics*. *Experimental Math.* 10, 487 - 495.

## SEMINARS

**Conference Seminars and Poster Presentations**

Dec 2020	Virtual Escape Rooms, CMS (invited)
July 2020	Promoting Student Engagement in Online Courses, CCREM (invited)
Feb 2020	Comics as Pedagogical Tools (poster)
Jun 2019	Presentation Skills, BIRS, (invited)
May 2018	Don't Give Them a Fish, Teach Them How to Fish, TESLWW May Conference, Conestoga College (invited)
May 2017	Presentation Skills, TESLWW May Conference, Conestoga College (invited)

**University of Waterloo Teaching Seminars**

Feb 2020 Optional Test Retakes, UW Teaching Research Commons

CONFERENCES  
AND WORKSHOPS  
ATTENDED

Apr 2021	UW Teaching and Learning Conference (online)
Dec 2020	CMS Winter Meeting (online)
July 2020	MAA Innovative Course Design (online)
July 2020	CMS Research and Education Meeting CCREM (online)
July 2020	Wiley's Wicked Summer Camp for Online Teaching (online)
June 2020	ITLC Lilly Online Conference on Designing Effective Teaching (online)
Feb 2020	SIGMAA RUME (Boston, MA)
Feb 2020	Wiley STEM Teaching and Learning Workshop (Miami, FL)
Nov 2019	Learning and the Brain (Boston, MA)
Nov 2019	PME-NA (St Louis, MO)
Jul 2019	Digital Pedagogy Conference (Waterloo, ON)
Jun 2019	Canada International Conference on Education (Mississauga, ON)
Jun 2019	BIRS Workshop (Banff, AB)
Feb 2019	SIGMAA RUME Conference (Oklahoma City, OK)
Apr 2018	First Year University Mathematics, Fields Institute (Toronto, ON)
Apr 2018	UW Teaching and Learning Conference (Waterloo, ON)
Dec 2017	CMS Winter Meeting (Waterloo, ON)
Apr 2017	UW Teaching and Learning Conference (Waterloo, ON)
Jun 2016	STLHE 2016 Conference
Jun 2016	Lilly International Conference (Bethesda, MD)
Apr 2016	UW Teaching and Learning Conference (Waterloo, ON)
Apr 2016	Wiley Sciences Teaching and Learning Workshop (Toronto, ON)
Apr 2015	UW Teaching and Learning Conference (Waterloo, ON)

## VOLUNTEERING

2015 - 2018	MATU High School Enrichment Program
Jan 2018	Sir John A MacDonald SS presentation
2004 - 2018	Elizabeth Ziegler Elementary Volunteer
2014 - 2018	Centennial Public School Volunteer
2011 - 2015	Ukrainian Dance Instructor
2007 - 2012	MATU High School Enrichment Program
2002 - 2007	Ukrainian Dance Instructor