

## Mihai Alboiu

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CONTACT INFORMATION	Department of Mathematics Yale University 442 Dunham Lab 10 Hillhouse Ave New Haven, CT 06511 USA e-mail: <a href="mailto:mihai.alboiu@yale.edu">mihai.alboiu@yale.edu</a> website: <a href="https://campuspress.yale.edu/alboiu/">https://campuspress.yale.edu/alboiu/</a>
CITIZENSHIP	Canadian
EMPLOYMENT	<b>Yale University</b> Lecturer, Mathematics <span style="float: right;">July 2021 – present</span>
EDUCATION	<b>University of Toronto</b> Ph.D., Mathematics <span style="float: right;">September 2016 – June 2021</span> <ul style="list-style-type: none"><li>• Thesis Title: The Stable Rank of Diagonal ASH Algebras</li><li>• Supervisor: Dr. George Elliott</li></ul> M.Sc., Mathematics <span style="float: right;">August 2015</span> <b>York University</b> B.Sc., Specialized Honours Mathematics <span style="float: right;">April 2014</span> <ul style="list-style-type: none"><li>• Top graduate in the Mathematics and Statistics Department</li></ul>
RESEARCH INTERESTS	C*-algebras and their classification, ASH-algebras, AH-algebras, K-Theory
PUBLICATIONS AND PREPRINTS	Alboiu, M., Lutley, J., (2020) <i>The Stable Rank of Diagonal ASH Algebras and Crossed Products by Minimal Homeomorphisms</i> . Submitted. arXiv:2005.00148  Alboiu, M., (2015) <i>On the parity of the prime-counting function and related problems</i> . The Ramanujan Journal. 38: 179-187. <a href="https://doi.org/10.1007%2Fs11139-014-9596-1">https://doi.org/10.1007%2Fs11139-014-9596-1</a>
TALKS	<i>DSH Algebras and Their Matrix-Unit-Compatible Inductive Limits</i> <span style="float: right;">January 2021</span> Actions of Tensor Categories on C*-algebras, IPAM, UCLA (online), Los Angeles  <i>Diagonal ASH Algebras With Stable Rank One</i> <span style="float: right;">June 2020</span> Zagreb Workshop on Operator Theory, The University of Zagreb (online), Zagreb  <i>Diagonal ASH Algebras With Stable Rank One</i> <span style="float: right;">May 2020</span> The 48th Canadian Operator Symposium, The Fields Institute (online), Toronto  <i>AH Algebras With Stable Rank One</i> <span style="float: right;">April 2019</span> Fields Operator Algebras Seminar, University of Toronto  <i>Gelfand's Theorem for Commutative C*-algebras</i> . <span style="float: right;">April 2017</span> George Elliott's K-theory for C*-algebras course, University of Toronto  <i>Dowker Spaces and the Linearly Lindelöf Problem</i> . <span style="float: right;">August 2015</span> M.Sc. Presentation, University of Toronto

TEACHING  
EXPERIENCE

**Instructor (Yale University):**

Term	Code	Title
Fall 2021	Math 118	Intro. to Functions of Several Variables ( <b>coordinator</b> )
Fall 2021	Math 115	Calculus of Functions of One Variable II

**Instructor (University of Toronto):**

Term	Code	Title
Fall 2020 – Winter 2021	MAT137	Calculus With Proofs ( <b>coordinator</b> )
Fall 2019 – Winter 2020	MAT137	Calculus!
Summer 2019	MAT137	Calculus! ( <b>course co-coordinator</b> )

**Teaching Assistant (University of Toronto):**

Term	Code	Title
Summer 2021	MLC	Math Learning Centre TA
Summer 2021	MAT136	Calculus II
Fall 2018 – Winter 2019	MAT137	Calculus!
Fall 2018	MAT135	Calculus I (Head T.A.)
Summer 2018	MAT237	Multivariable Calculus
Fall 2017 – Winter 2018	MAT137	Calculus!
Fall 2017	MAT224	Linear Algebra II
Summer 2017	MAT136	Calculus II
Fall 2016 – Winter 2017	MAT137	Calculus!
Fall 2015	MAT137	Calculus!
Winter 2015	MAT136	Calculus II
Fall 2014	MAT135	Calculus I

**Additional Experience (University of Toronto):**

- Substitute Instructor for MAT1011 for one lecture hour, Fall 2019
- Substitute Instructor for MAT1016 for one lecture hour, Winter 2019
- Substitute Instructor for MAT237 for nine lecture hours, Summer 2018
- Guest Lecturer for two MAT137 lectures, Winter 2018

AWARDS

QEII-GSST (\$15,000)	2021
<b>Ida Bulat Teaching Award</b> , Dept. of Mathematics, University of Toronto	2020
• Awarded to three grad students for excellence in teaching as an instructor	
NSERC Alexander Graham Bell Canada Graduate Scholarship-Doctoral (\$70,000 / 2 years)	2018
OGS (\$15,000)	2017
NSERC Canada Graduate Scholarship-Master's (\$17,500)	2016
Alice Turner Award, Dept. Math and Stats, York University	2014
• Awarded to the top graduating student for academic achievement	
NSERC Undergraduate Student Research Award (\$6,000)	2013
Moshe Shimrat Prize, Dept. of Math and Stats, York University (\$400)	2013
• Awarded to the highest scorer on the Putnam competition at York University	
Irvine R. Pounder Award, Dept. of Math and Stats, York University	2011 – 2013
• Awarded yearly to the top student for academic achievement	
Continuing Student Scholarship, York University (\$1,200)	2013
Entrance Scholarship, York University (\$1,000 / 2 years)	2010

MENTORING EXPERIENCE	Observation TA, University of Toronto <ul style="list-style-type: none"> <li>• Duties included observing and mentoring new TAs in the following courses: MAT136, MAT137, MAT235</li> </ul>	Fall 2019, Fall 2020
ADMINISTRATIVE DUTIES	Organizer of the Fields Operator Algebras Seminar	January 2018 – July 2021
CONFERENCES/ WORKSHOPS	<i>Actions of Tensor Categories on C*-algebras</i> IPAM, University of California, Los Angeles, United States (held online)	January 2021
	<i>Zagreb Workshop on Operator Theory</i> The University of Zagreb, Croatia (held online)	June 2020
	<i>The 48th Canadian Operator Symposium</i> The Fields Institute, Toronto, ON, Canada (held online)	May 2020
	<i>Southern Ontario Operator Algebras Seminar</i> University of Waterloo, Waterloo, ON, Canada	February 2018
	<i>Satellite Conference on Operator Algebras (MCA2017)</i> The Fields Institute, Toronto, ON, Canada	August 2017
	<i>Forcing and Its Applications: Retrospective Workshop</i> The Fields Institute, Toronto, ON, Canada	April 2015
GRADUATE COURSEWORK	<input type="checkbox"/> Real Analysis I/II <input type="checkbox"/> Complex Analysis <input type="checkbox"/> Probability I/II <input type="checkbox"/> Algebra I/II <input type="checkbox"/> Combinatorics	<input type="checkbox"/> Linear Operators on Hilbert Spaces <input type="checkbox"/> K-theory for C*-algebras <input type="checkbox"/> Non-commutative Geometry <input type="checkbox"/> Set Theory <input type="checkbox"/> Teaching Large Math Classes
UNDERGRADUATE RESEARCH EXPERIENCE	NSERC USRA: The parity of the prime-counting function <ul style="list-style-type: none"> <li>• Department of Mathematics and Statistics, York University</li> <li>• Supervisor: Dr. Youness Lamzouri</li> </ul>	Summer 2013
VOLUNTEERING	Mathematics Classroom Assistant, Sir John A. Macdonald C.I., Toronto <ul style="list-style-type: none"> <li>• Over 300 hours teaching lessons, composing and grading tests, and tutoring students</li> </ul>	2011 – 2012
LANGUAGES	English, Romanian	