Mihai Alboiu

CONTACT INFORMATION	Department of Mathematics Yale University 219 Prospect St, Floors 7–9 New Haven, CT, 06511, USA	e-mail: mihai.alboiu@yale.edu website: https://campuspress.yale.edu/alboiu/

<small>CITIZENSHIP</small>   Canadian, Romanian

<small>EMPLOYMENT</small>

Yale University
Lecturer, Mathematics   July 2021 – present

<small>EDUCATION</small>

University of Toronto
Ph.D., Mathematics   September 2016 – June 2021
- Thesis Title: The Stable Rank of Diagonal ASH Algebras
- Supervisor: Dr. George Elliott

M.Sc., Mathematics   August 2015
- Master's Research Project: Dowker spaces and the Linearly Lindelöf Problem
- Supervisor: Dr. William Weiss

York University
B.Sc., Specialized Honours Mathematics, First Class with Distinction   April 2014
- Top graduate in the Mathematics and Statistics Department

<small>RESEARCH INTERESTS</small>

C^*-algebras, ASH-algebras, AH-algebras, K-Theory

<small>PUBLICATIONS</small>

Alboiu, M., Lutley, J., (2022) "The stable rank of diagonal ASH algebras and crossed products by minimal homeomorphisms." *Münster J. of Math.* 15: 167–220. https://doi.org/10.17879/23049547771

Alboiu, M., (2015) "On the parity of the prime-counting function and related problems." *The Ramanujan J.* 38: 179–187. https://doi.org/10.1007%2Fs11139-014-9596-1

<small>INVITED TALKS</small>

"Fostering Growth Through Mentoring"   February 2023
Departmental Colloquium, Department of Mathematics, University of Toronto

"DSH Algebras and Their Matrix-Unit-Compatible Inductive Limits"   January 2021
Actions of Tensor Categories on C^*-algebras, IPAM, UCLA (online), Los Angeles

"Diagonal ASH Algebras With Stable Rank One"   June 2020
Zagreb Workshop on Operator Theory, The University of Zagreb (online), Zagreb

"Diagonal ASH Algebras With Stable Rank One"   May 2020
The 48th Canadian Operator Symposium, The Fields Institute (online), Toronto

Teaching Experience	**Instructor of Record (Yale University)**	

Term	Code	Title
Fall 2023	Math 118	Intro. to Functions of Several Variables
Fall 2023	Math 115	Calculus of Functions of One Variable II
Summer 2023	Math 112E	Calculus of Functions of One Variable I (Online)
Spring 2023	Math 115	Calculus of Functions of One Variable II (Coordinator)
Fall 2022	Math 470	Individual Studies
Summer 2022	Math 112	Calculus of Functions of One Variable I
Spring 2022	Math 120	Calculus of Functions of Several Variables
Spring 2022	Math 112	Calculus of Functions of One Variable I
Fall 2021	Math 118	Intro. to Functions of Several Variables
Fall 2021	Math 115	Calculus of Functions of One Variable II

Instructor of Record (University of Toronto)

Term	Code	Title
Fall 2020 – Winter 2021	MAT137	Calculus With Proofs (Online)
Fall 2019 – Winter 2020	MAT137	Calculus!
Summer 2019	MAT137	Calculus! (Co-coordinator)

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 TA)
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)

- Invited Lecturer for MAT136 for one lecture hour, February 2023
- 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

Math Outreach

Putnam Competition, Yale University   Fall 2022
- Organizing the Putnam competition and holding weekly training sessions

Teaching Development and Leadership

Fellow, Faculty Teaching Academy, Yale University   Spring 2023
- Completed all components of the Faculty Teaching Academy program offered by the Poorvu Center for Teaching and Learning

The Math Help Center, Yale University   Fall 2022 – present
- Co-developed and facilitating the new Math Help Center on campus—a centralized location for calculus undergraduate TA office hours

Active Learning Training Session, Yale University   Fall 2022, Fall 2023
- Co-led a training session on active learning methods for all new post-doc and graduate instructors in the math department

MAA Project NExT, Red Dot   Summer 2022 – Summer 2023
- Participated in invitational Project NExT Workshops and related MathFest/JMM meetings for junior faculty

TA Training Session, Yale University   Spring 2022, Fall 2022, Fall 2023
- Co-led an active learning training session for new undergraduate TAs

Course (Re)Design Institute, Yale University   Summer 2022
- Attended intensive three-day workshop with core sessions involving student-centred learning, assessment, and support

Mentor to Graduate Student Instructors, Yale University   Fall 2021 – present
- Observing and mentoring graduate student instructors with their teaching, and helping them develop course materials

Observation TA, University of Toronto   Fall 2019, Fall 2020
- Observed and mentored 15 new TAs in MAT136, MAT137, MAT235

THE500: Teaching in Higher Education, University of Toronto   Fall 2020
- Course discussing various student learning styles and diverse forms of assessment

Teaching Large Math Classes, University of Toronto   Winter 2018
- Seminar-style course with practice preparing and critiquing course materials

AWARDS	Queen Elizabeth II Graduate Scholarship in Science & Technology ($15,000)	2021

Ida Bulat Teaching Award, 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   2018
($70,000 / 2 years)

Ontario Graduate Scholarship ($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
- Supervisor: Dr. Youness Lamzouri

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

DEPARTMENTAL SERVICE	Co-coordinator of Undergraduate TA Hiring, Yale University	2021 – present
	Calculus Placement Advising Sessions, Yale University	2021 – 2023
	Member of Math Lecturer Hiring Team, Yale University	2021 – 2023
	Organizer of the Operator Algebras Seminar, The Fields Institute	2018 – 2021

CONFERENCES/ WORKSHOPS	*Mathematical Association of America MathFest* Tampa, FL, USA	August 2023
	Joint Mathematical Meetings Boston, MA, USA	January 2023
	Mathematical Association of America MathFest Philadelphia, PA, USA	August 2022
	Actions of Tensor Categories on C**-algebras* IPAM, University of California, Los Angeles, United States (held online)	January 2021
	Zagreb Workshop on Operator Theory The University of Zagreb, Croatia (held online)	June 2020
	The 48th Canadian Operator Symposium The Fields Institute, Toronto, ON, Canada (held online)	May 2020
	Southern Ontario Operator Algebras Seminar University of Waterloo, Waterloo, ON, Canada	February 2018
	Satellite Conference on Operator Algebras (MCA2017) The Fields Institute, Toronto, ON, Canada	August 2017
	Forcing and Its Applications: Retrospective Workshop The Fields Institute, Toronto, ON, Canada	April 2015

SEMINAR TALKS	"AH Algebras With Stable Rank One" Fields Operator Algebras Seminar, University of Toronto	April 2019
	"Dowker Spaces and the Linearly Lindelöf Problem" M.Sc. Presentation, University of Toronto	August 2015

GRADUATE COURSEWORK	- Real Analysis I/II - Complex Analysis - Probability I/II - Algebra I/II - Combinatorics - Linear Operators on Hilbert Spaces - K-theory for C*-algebras - Non-commutative Geometry - Set Theory

VOLUNTEERING	Mathematics Classroom Assistant, Sir John A. Macdonald C.I., Toronto 2011 – 2012 • Over 300 hours teaching lessons, composing and grading tests, and tutoring students

LANGUAGES	English, Romanian