Stewart Brown
Curriculum Vitae

Department of Mathematics
University of North Texas
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RESEARCH INTERESTS	Mathematical logic, set theory, combinatorial set theory, forcing theory, descriptive inner model theory. Currently I am researching classical combinatorial constructions (those associated to combinatoral cardinal characteristics of the continuum) under the axiom of determinacy, its strengthenings, and sometimes in inner models of determinacy.
EMPLOYMENT	Doktorand Technische Universität Wien (TU Wien), 2026 – 2027 Teaching Fellow University of North Texas, 2024 – 2027 Teaching Assistant University of North Texas, 2022 – 2023 Teaching Assistant University of Michigan, 2019 – 2022
EDUCATION	Ph.D. in Mathematics University of North Texas, Fall 2022 – Current B.Sc. in Mathematics (with Honors) University of Michigan, 2022 A.S. in Mathematics Alpena Community College, 2018
GRADUATE ADVISORS & SPONSORS	Nam Trang, University of North Texas; Denton, Texas, USA (Thesis Advisor) Sandra Müller, Technical University of Vienna; Vienna, Austria (Marshall Plan Sponsor)
GRANTS & AWARDS	Austrian Marshall Plan Grant, Project title: Combinatorial Families Above Θ (2025 – 2026) R. Mauldin Scholar (2022 – 2023) Bastings Scholar (2018 – 2022)

TEACHING

Instructor of Record (University of North Texas)
» Math 1710: Calculus I; Fall 2024, Spring 2025, Fall 2025, Spring 2026

» Math 2730: Multivariable Calculus; Summer 2024, Summer 2025

» Math 2700: Linear Algebra; Spring 2024

Teaching Assistant (University of North Texas)
» Math 1710: Calculus I, Spring 2023; Fall 2023

» Math 1100: Algebra; Fall 2022

Teaching Assistant (University of Michigan)
» EECS 203: Discrete Mathematics; Fall 2019, Winter 2020, Fall 2020, Winter 2021, Summer 2021, Fall 2021, Winter 2022

INVITED TALKS   Independent Families on $\kappa < \Theta$, June 2025, Berkeley Inner Model Theory Conference, Berkeley, California.

SERVICE   Organizer of University of North Texas Graduate Logic Seminar, Spring 2024, Fall 2025