

DANIEL TARNU

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EDUCATION

PhD (with distinction) , Simon Fraser University Mathematics – number theory and combinatorics	Sep 2019 - Aug 2023
MSc , Western Washington University Mathematics – dynamical systems and ergodic theory	Sep 2017 - Jun 2019
BSc , Western Washington University Mathematics	Sep 2014 - Jun 2017

WORK EXPERIENCE

Private Tutor <ul style="list-style-type: none">• Provided 1-on-1 math tutoring for number theory, linear algebra, and more.	June 2020 - Present
Volunteer Tutor Native Education College <ul style="list-style-type: none">• Provided 1-on-1 math tutoring for intermediate algebra, business math, and more.	Nov 2022 - July 2023 <i>Vancouver, BC, Canada</i>
Graduate Teaching Assistant Simon Fraser University <ul style="list-style-type: none">• Tutored linear algebra, discrete math, precalculus, uni- and multivariate calculus, differential equations, and computer vision.	Sep 2019 - Jan 2023 <i>Burnaby, BC, Canada</i>
Graduate Instructor Western Washington University <ul style="list-style-type: none">• Acted as instructor and grader for intermediate algebra and business calculus.• Collaboratively developed curricula.	Sep 2018 - June 2019 <i>Bellingham, WA, USA</i>

PROGRAMMING SKILLS

Proficient in: Python, Rust, HTML/CSS/JS
Familiar with: C++, MATLAB

PUBLICATIONS & PREPRINTS

- D. Tarnu, *Classifying matrices with minimal joint spectral radius*, in preparation.
- S. Choi and D. Tarnu, *Limiting behavior of Rudin-Shapiro sequence autocorrelations*, in preparation.
- D. Tarnu, *On maximal autocorrelations of Rudin-Shapiro sequences*, Journal of Approximation Theory **287** (2023) article 105866.
- S. Choi and D. Tarnu, *The order of the fundamental solution of $X^2 - DY^2 = 1$ in $\mathbb{Z}[\sqrt{D}]/\langle D \rangle$* , Integers **22** (2022) article A84.
- S. Choi, P.C.H. Lam, and D. Tarnu, *Gap principle of divisibility sequences of polynomials*, Journal of Number Theory **223** (2021) 153-167.

ACCOLADES

Graduate Fellowship – Received Simon Fraser University’s graduate fellowship in 2020 and 2022.

Travel and Research Award – Received travel and research grants from Simon Fraser University in 2021 and 2023.

Graduate Dean’s Entrance Scholarship – Received nomination-only entrance scholarship from Simon Fraser University for 2019-2023.

Outstanding Graduate Student – Elected as the outstanding graduate student of the Western Washington University math department in 2019.

TALKS

An Introduction to Ergodic Theory	May 2019 and Feb 2020
Western Washington University and Simon Fraser University	

CONFERENCES ATTENDED

Joint Mathematics Meetings 2023	Jan 2023
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Oregon Number Theory Days	Nov 2019
Oregon State University	

Pacific Northwest Number Theory Conference	Mar 2019
University of British Columbia	

Combinatorial Potlatch	Nov 2017 and Nov 2018
University of Victoria and Simon Fraser University	

Subannual: Quantum BC Seminar, SFU Number Theory & Algebraic Geometry Seminar, UBC Number Theory Seminar, WWU Mathematics Colloquium