Dominic F. Veconi

The Pennsylvania State University   dkv5049@psu.edu
Department of Mathematics   http://dominic.veconi.com/
417 McAllister Building   Citizenship: USA
University Park, PA 16802, USA   Languages: English

EDUCATION

2021   May   Ph.D. Mathematics (Expected), The Pennsylvania State University
             Thesis topic: Thermodynamics of nonuniformly hyperbolic dynamical systems.
             Advisor: Yakov Pesin
2015   May   B.A. Mathematics, Hamilton College, Clinton, NY 13323
             Advisor: Robert Kantrowitz
             Departmental Honors, Magna Cum Laude
             Minor in Biology

RESEARCH INTERESTS

Dynamical systems, ergodic theory, hyperbolic dynamics, thermodynamic formalism.

COMPUTER EXPERIENCE

- Languages: C++, Python

PREPRINTS

1. Thermodynamics of smooth models of pseudo-Anosov homeomorphisms. *Submitted for publication.* `arXiv:1912.09625`. 38 pages.

PUBLICATIONS

2. Equilibrium states of almost Anosov diffeomorphisms. *Disc. Cont. Dyn. Sys.* Volume 40, Number 2, February 2020, Pages 767-780. `arXiv:1901.04631`. 14 pages.

1. Initial and Boundary Value Problems for the Caputo Fractional Self-Adjoint Difference Equations. *Enlightenment in Pure and Applied Mathematics.* Volume 2, Number 1, 2016. `arXiv:2002.07909`. 32 pages.

Research Talks

2020	Nov	Workshop in Dynamical Systems and Related Topics, Penn State University (Upcoming)
	Oct	Dynamical Systems Seminar, University of Maryland (Upcoming)
	June	Mathematics Seminar, International Center for Theoretical Physics (Online)
2019	Aug	2020 Vision for Dynamical Systems, IMPAN
	Apr	Workshop on Dynamical Systems and Related Topics, University of Maryland
2018	Aug	Dynamical Systems Working Seminar, Penn State University
2015	Jan	Undergraduate Poster Session, Joint Mathematics Meetings (Poster)
2014	Sept	Department of Mathematics Colloquium, Hamilton College

Other Talks

| 2017 | Oct | Math Department Diversity Seminar, Penn State University |

Other Professional Travel

2020	Jan	Joint Mathematics Meetings.
2017	Aug	Current Trends in Dynamical Systems and the Mathematical Legacy of Rufus Bowen, University of British Columbia.
	Jun	Workshop on Hyperbolic Dynamics, International Center for Theoretical Physics.
	May	Summer School on Dynamical Systems, University of Houston.
	Apr	Workshop on Dynamical Systems and Related Topics, University of Maryland.

Teaching experience

The Pennsylvania State University, University Park

2020	Aug	Math 141: Calculus with Analytic Geometry II (Online), *Instructor*
	Jan	Math 111: Techniques of Calculus II, *Instructor*
2019	Aug	Math 220: Matrices, *Instructor*
	Jan	Math 231: Calculus of Several Variables, *Instructor*
2017 – 2019		Math 230: Calculus and Vector Analysis, *Instructor*
2017	Jun	Math 141: Calculus with Analytic Geometry II (Online), *Teaching Assistant*
2016 – 2017		Math 251: Ordinary and Partial Differential Equations, *Instructor*
2016	May	Math 110: Techniques of Calculus I, *Instructor*
	Jan	Math 021: College Algebra I, *Instructor*
2015	Aug	Math 022: College Algebra II (Online), *Teaching Assistant*

Hamilton College

2015	Jan	Math 337: Partial Differential Equations, *Grader*
2012 – 2015		Quantitative and Symbolic Reasoning Center Tutor

Services

2020 –	Graduate Student Association, Penn State Math Department, *President*
2018 – 2020	Prospective Graduate Student Open House, Penn State Math Department
2018 – 2020	Student-Directed Colloquium, Penn State Math Department, *Organizer*
2018 –	Graduate Student Mentorship Program, Penn State Math Department
2017 –	Climate and Diversity Committee, Penn State Eberly College of Science
2017 –	Climate and Diversity Committee, Penn State Department of Mathematics
2016 – 2017	Climate and Diversity Workshop Committee, *Chair (2017)*

AWARDS AND HONORS

ACADEMIC

2020	Sept	August and Ruth Homeyer Fellowship, Penn State University
2019	Sept	Vollmer-Kleckner Scholarship in Science, Penn State University
2016 – 2018		Jack and Eleanor Pettit Scholarship in Science, Penn State University
2015	Sept	Vollmer-Kleckner Scholarship in Science, Penn State University
	May	ΦBK Member, Hamilton College
	May	Elihu Root Fellowship for Graduate Studies, Hamilton College
	May	Tompkins Prize in Mathematics, Hamilton College
	May	Departmental Honors in Mathematics, Hamilton College
2014	Aug	Edward Huntington Memorial Prize Scholarship, Hamilton College

TEACHING

2018	Apr	Charles M. Hoover Memorial Graduate Teaching Award, Penn State University Department of Mathematics
	Apr	Graduate Teaching Associateship, Penn State University Department of Mathematics
2017	Apr	Graduate Teaching Award, Penn State University Department of Mathematics

SERVICE

2018	Apr	ZZRQ Service Award, Penn State University Department of Mathematics
	Jan	Dean's Climate and Diversity Award (nominee), Penn State University

PROFESSIONAL MEMBERSHIPS

2019 –	Mathematics Association of America
2015 –	American Mathematical Society