Rufus Bowen Notebook https://bowen.pims.math.ca/



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• 40 papers and 2 books in dynamics over only 10 years

- 2800 citations in MathSciNet; most are very recent.
- Bowen-Franks group, Bowen-Margulis measure, Bowen-Series maps, Sinai-Ruelle-Bowen (SRB) measure, Bowen's formula

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Markov partitions and symbolic dynamics

- Topological entropy
- Entropy, periodic orbits, and equidistribution
- Thermodynamic Formalism (pressure, equilibruium states and Gibbs states)
- Interplay between ergodic theory and smooth structure
- Hyperbolic systems and topology
- Pressure and dimension

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Rufus's Mathematical Descendants

4 PhD students and 24 PhD grand-students

Name	Year of PhD	University
Franco-Sanchez, Ernesto	1974	University of California, Berkeley
Marcus, Brian	1975	University of California, Berkeley
Wong, Sherman	1977	University of California, Berkeley
Young, Lai-Sang	1978	University of California, Berkeley
Kitchens, Bruce	1981	University of North Carolina at Chapel Hill
Branton, Michael	1982	University of North Carolina at Chapel Hill
Trow, Paul	1985	University of North Carolina at Chapel Hill
Ashley, Jonathan	1987	University of California, Santa Cruz
Fahlberg-Stojanovska, Linda	1989	University of Arizona
Hu, Huyi	1993	University of Arizona
Liu, Zheng	1993	University of Arizona
Cleveland, Christopher	1999	University of California, Los Angeles

Name	Year of PhD	University
Cowieson, William	1999	University of California, Los Angeles
Chaichanavong, Panu	2003	Stanford University
Demers, Mark	2003	New York University
Poo, Tze-Lei	2005	Stanford University
Kobre, Elisha	2005	New York University
Wright, Paul	2007	New York University
Koiller, José	2008	New York University
Mintchev, Stanislav	2008	New York University
Yarmola, Tatiana	2008	New York University
Louidor, Erez	2010	University of British Columbia
Ryals, Brian	2013	New York University
Chandgotia, Nishant	2015	University of British Columbia
Garcia-Ramos, Felipe	2015	University of British Columbia
Briceño, Raimundo	2016	University of British Columbia
Blumenthal, Alex	2016	New York University
Chariker, Christopher	2016	New York University

Short Paper Title

Historical record

- Window into Rufus's thinking he anticipated many developments in the past 40 years.
- Short problem statements.
- Much progress made on many problems.
- Bibliographies in PIMS/Fields/NSF proposal and Rufus's Notebook are almost disjoint.

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Other features to add?

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Tuesday and Thursday afternoons, 4:30-5:30, in Scarfe Building

- Moderated, informal, organic discussions of groups of Notebook problems or problems broadly related to Rufus's work
- Some participants have volunteered to pose/discuss problems.
- All are welcome to participate/attend.

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Parallel sessions, broadly defined

Will post more detail by Tuesday morning.

- Homogeneous Dynamics (J. Athreya, S. Lim); including algebraic dynamics, Teichmuller theory, foliation ergodic theory
- Hyperbolic Dynamics (Y. Coudenes, S, Crovisier, T. Fisher) including "beyond hyperbolicity", smooth dynamics, interplay between smooth and ergodic
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- Clarify meaning of and progress on Notebook problems by continuing to input online comments
- Better understand how Notebook problems and Rufus's work fit into today's dynamics landscape, e.g., by writing essays
- Other Ideas ?

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