

## Tom VandenBoom

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CONTACT INFORMATION	Rice University MS-136 Houston, TX 77251	651-494-7824 tv4@rice.edu
RESEARCH INTERESTS	Spectral theory, Jacobi operators, Schrödinger operators, completely integrable systems, dynamical systems.	
EDUCATION	<b>Rice University</b> , Houston, TX  Ph.D., Mathematics, <i>Expected</i> : May 2018  M.A., Mathematics, <i>Expected</i> : May 2018 <ul style="list-style-type: none"><li>• Thesis Advisor: David Damanik, Ph.D</li></ul> <b>University of Minnesota</b> , Minneapolis, MN  B.S., Mathematics and Statistics (Double Major), May 2013 <ul style="list-style-type: none"><li>• <i>Summa Cum Laude</i>, with distinction.</li></ul>	
PAPERS IN PREPARATION	1. Binder, I., Damanik, D., Lukic, M., and VandenBoom, T. “Almost-periodicity in time of solutions to the Toda flow.” <i>arXiv preprint: 1603.04905</i> .	
PRESENTATIONS AND CONFERENCES	Mathematics Conferences	
	<ul style="list-style-type: none"><li>• Western States Meetings 2016, Pasadena, CA</li><li>• TexAMP 2015, Dallas, TX</li><li>• EquaDiff 2015, Lyon, France</li><li>• TexAMP 2014, Austin, TX</li><li>• Inverse Problems and Spectral Theory, College Station, TX</li></ul>	Feb 2016 Oct 2015 Jul 2015 Nov 2014 Oct 2014
	Western States Meetings 2016	
	<ul style="list-style-type: none"><li>• Time almost-periodicity of solutions of the Toda flow</li></ul>	Feb 2016
	University of Oklahoma	
	<ul style="list-style-type: none"><li>• The density of states and equilibrium measures in the Sodin-Yuditskii regime</li></ul>	Aug 2015
	EquaDiff 2015	
	<ul style="list-style-type: none"><li>• Equality of density of states and equilibrium measures in the Sodin-Yuditskii regime</li></ul>	Jul 2015
	Rice University	
	<ul style="list-style-type: none"><li>• Time Almost-Periodicity of Solutions of the Toda Flow</li><li>• Isospectral Dynamics via Lax Pairs</li><li>• The Real Jacobi Inversion Problem I-III</li><li>• Reflectionless Jacobi Operators I - III</li><li>• Orthogonal Polynomials on the Unit Circle (with Darren Ong)</li></ul>	Feb 2016 Oct 2015 Feb 2015 Oct 2014 Feb 2014
	University of Minnesota	
	<ul style="list-style-type: none"><li>• Localization phenomena in nearly-periodic layered media</li></ul>	May 2013

TEACHING EXPERIENCE	Instructor	
	MATH 102 - Calculus II	Spring 2016
	Teaching Assistant	
	MATH 523 - Functional Analysis	Fall 2015
	Instructor: Zhenghe Zhang, Ph.D	
	Department of Mathematics, Rice University	
	MATH 302 - Elements of Analysis	Spring 2015
	Instructor: William Yessen, Ph.D	
Department of Mathematics, Rice University		
MATH 300 - Fractal Geometry	Fall 2014	
Instructor: Robert Hardt, Ph.D		
Department of Mathematics, Rice University		
MATH 211 - Ordinary Differential Equations	Spring 2014	
Instructors: Millivoje Lukic, Ph.D; Sinan Ariturk, Ph.D		
Department of Mathematics, Rice University		
MATH 102 - Calculus II	Fall 2013	
Instructors: Brendan Hasset, Ph.D; Zhiyong Gao, Ph.D		
Department of Mathematics, Rice University		
MATH 1031 - College Algebra and Probability	Fall 2012 - Spring 2013	
Instructor: Jennie Nash		
Department of Mathematics, University of Minnesota		
COMPUTING SKILLS	Computer Languages	
	<ul style="list-style-type: none"> <li>• C, C++, MATLAB, Mathematica, R, and L<sup>A</sup>T<sub>E</sub>X.</li> </ul>	
SERVICE	Lecturer, Rice Math Circle	Nov 2014
	<ul style="list-style-type: none"> <li>• Prepared and presented class discussion and related activities for local youth.</li> </ul>	
	Master of Ceremonies, Rice Mathematical Lecture Contest	Apr 2014
	<ul style="list-style-type: none"> <li>• Coordinated event logistics and introduced speakers.</li> </ul>	
REFERENCES	David Damanik	
	Professor, Chair	Phone: 713-348-3273
	Department of Mathematics	E-mail: damanik@rice.edu
	Rice University	