Timothy M. Wertz

EDUCATION

- 2015 Ph.D. in Mathematics., Department of Mathematics, University California, Davis, USA.
- 2010 M.A. in Mathematics, Department of Mathematics, San Francisco State University, USA.
- 2006 B.A. & B.S. in Mathematics, Physics, Foreign Service, Alma College, Michigan, USA.

Research Interests

Harmonic Analysis: frames, Gabor systems, Fourier series of operators; **Operator Theory:** spectral invariance, eigenvector localization, Banach algebras of localized operators; **Random Matrix Theory:** random Schrödinger operators, the empirical spectral distribution of localized random matrices; **Mathematics Education** quantitative literacy, flipped classrooms, team-based learning; student motivation

Employment History

January 2015 – Present	Yale-NUS College, <i>Division of Science</i> , Senior Lecturer (July 2021 – Present), Lecturer (July 2016 – June 2021), Postdoctoral Teaching Fellow (July 2015 – June 2016), Instructor (January 2015 – June 2015).
	Taught and developed undergraduate courses, supervised undergraduate research, and provided academic advising. Conducted independent and collaborative research. Served as the course facilitator for the Common Curriculum course Quantitative Reasoning
July 2020 –	Yale-NUS College, Centre for Teaching and Learning, Coordinator for Quantitative
Present	Resources and Peer Tutoring.
	Hired and supervised peer tutors in Computer Science, Economics, Mathematics, and Statistics. Developed strategies for promoting the acquisition of quantitative skills by Yale-NUS students.
Summer 2012 $\&$	Instructor, Department of Mathematics, University of California, Davis, USA.
2013	Introduced students to the basics of logic and proof-writing in the context of real analysis and set theory. Planned and delivered lectures. Wrote, administered, and graded assignments, quizzes, and exams.
Summer 2011	Instructor, Academy of Art University, Sacramento, CA, USA.
	Instructed art, design, and culinary arts students in remedial mathematics, including fractions and basic algebra. Planned and delivered lectures. Wrote, administered, and graded assignments, quizzes, and exams.
September 2010 – June 2011	Graduate Teaching Assistant , <i>Department of Mathematics</i> , University of California, Davis, USA.
	Held weekly discussion sections and office hours for calculus and introductory real analysis. Graded homework assignments and exams.
Summer 2010	Instructor , Summer Bridge Program, San Francisco State University, USA. Provided remedial mathematics instruction to recently graduated high school seniors from dis- advantaged backgrounds in order to prepare them for university-level coursework. Planned and delivered lectures. Wrote, administered, and graded assignments, quizzes, and exams. Supervised teaching assistants.
August 2008 – May 2009	Graduate Teaching Assistant , <i>Department of Mathematics</i> , San Francisco State University, USA.
	Planned and delivered lectures; wrote, administered, and graded assignments, quizzes, and exams for students in remedial algebra. Held weekly discussion sections and office hours for calculus students.

May 2006 – July 2008	Assistant Director of Admissions, Alma College, Alma, Michigan, USA. Met with high-school students and their families to guide them through the admissions process. Gave recruitment presentations to groups of students, parents, and guidance counselors. Reviewed applications and made admissions decisions. Supervised student workers.
	PUBLICATIONS
In preparation	Scott Chua, Guillem Riambau, T.W., Do grades enhance learning? Evidence from a natural experiment in a liberal arts setting.
2021	Thomas Strohmer, T.W., Almost eigenvalues and eigenvectors for the almost Mathieu operator., Excursions in Harmonic Analysis, Volume 6.
2015	Ilya Krishtal, Thomas Strohmer, T.W., <i>Localization of matrix factorizations</i> , Foundations of Computational Mathematics, Volume 15, Issue 4.
2013	Alex Schuster, T.W., Interpolation on non-uniformly separated sequences in a weighted Bergman space., Journal of the Egyptian Mathematical Society, Volume 21, Number 2.
	Service, Outreach, and Community Involvement
January 2020 – present	Sciences Strategic Committee at Yale-NUS
Fall 2013 – present	Reviewer for Mathematical Reviews
July 2020 – June 2021	Common Curriculum Review Committee at Yale-NUS
August 2017 – June 2021	Course Facilitator for Quantitative Reasoning at Yale-NUS
January 2011 – June 2012	Northern California American Regions Math League (NorCal ARML) Coach
January 2011 – May 2012	Oakland East-Bay Math Circle (OEBMC) Instructor
September 2009 – May 2010	San Francisco Math Circle Instructor
	Conferences, Meetings, and Presentations

April 2017	STEM Singapore Innovations Symposium, Yale-NUS College, Singapore. Organizer.
February 2014	February Fourier Talks, Baltimore, MD. Poster.
October 2013	West Coast Operator Algebra Seminar, Davis, CA. Presentation.
April 2013	Western Sectional Meeting of the AMS, Boulder, CO. Presentation.
February 2013	February Fourier Talks, Baltimore, MD. Poster.
May 2010	Graduate Research and Creative Works Showcase, San Francisco, CA. Poster.
March 2010	NSF GK-12 Annual Meeting, Washington, DC. Poster.