Cheng Chu

CONTACT INFORMATION	Department of Mathematics	(615)322-6667
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RESEARCH INTERESTS
Operator theory, spaces of analytic functions, and complex analysis in one and several variables

EDUCATION
Washington University in St. Louis

Ph.D. in Mathematics, May 2016
- Advisor: John McCarthy

M.S. in Mathematics, 2013

Fudan University

B.A. in Mathematics, 2011

EMPLOYMENT
Vanderbilt University

Assistant Professor (NTT), 2016-present.

PAPERS
Reducing Subspaces of de Branges-Rovnyak Spaces, submitted.

Hilbert Spaces Contractively Contained in Weighted Bergman Spaces, submitted.

Density of Polynomials in Sub-Bergman Hilbert Spaces, Journal of Mathematical Analysis and Applications, Vol. 467, No. 1 [2018] 699-703.

Bounded Composition Operators and Multipliers of Some Reproducing Kernel Hilbert Spaces on the Bidisk, to appear in Complex Analysis and Operator Theory.

Normal Truncated Toeplitz Operators, Complex Analysis and Operator Theory, Vol. 12, No. 4 [2018] 849-857.

A Note on the Spectral Area of Toeplitz Operators (with Dmitry Khavinson), Proceedings of the American Mathematical Society, Vol. 144, No. 6

[2016] 2533-2537.

Asymptotic Bohr Radius for the Polynomials in One Complex Variable, in: Invariant Subspaces of the Shift Operator, Contemporary Mathematics, Vol. 638, American Mathematical Society, Providence, RI [2015] 39-43.

Compact Product of Hankel and Toeplitz Operators, Indiana University Mathematics Journal, Vol. 64, No. 4 [2015] 973-982.

INVITED TALKS   AMS Sectional Meeting in Fayetteville, Special Session on Operator Theory and Function Spaces of Analytic Functions, University of Arkansas, November 2018.

Chongqing Mathematical Meeting and Summer Workshop, Invited lecture series, Chongqing University, China, May 2018.

Analysis Day at University of Michigan-Dearborn, Detroit, April 2018.

AMS Sectional Meeting in Nashville, Special Session on Function Spaces and Operator Theory, Vanderbilt University, April 2018.

Analysis Seminar, University of South Florida, Tampa, February 2015.

CONFERENCE
TALKS 34th Southeastern Analysis Meeting, Georgia Institute of Technology, Atlanta, March 2018.

33th Southeastern Analysis Meeting, University of Tennessee, Knoxville, March 2017.

AMS/MAA Joint Mathematical Meetings, Special Session on Operators, Function Spaces, and Models, Seattle, January 2016.

Wabash Modern Analysis Seminar, IUPUI, Indianapolis, September 2015.

31th Southeastern Analysis Meeting, University of Georgia, March 2015.

Wabash Modern Analysis Seminar, IUPUI, Indianapolis, September 2014.

30th Southeastern Analysis Meeting, Clemson University, March 2014.

CONFERENCE
PARTICIPATION   International Workshop on Operator Theory and Applications, Washington University in St. Louis, July 2016.

AMS Sectional Meeting in Memphis, Special Session on Advances in Operator Theory and Applications, University of Memphis, October 2015.

AMS Sectional Meeting in St. Louis, Special Session on Operator Theory, Washington University in St. Louis, October 2013.

NSF/CBMS regional conference: Uncertainty Principle in Harmonic Analysis: Gap and Type Problems, Clemson University, August 2013.

Services   Organizer of AMS Sectional Meeting in Nashville "Special Session on Function Spaces and Operator Theory" held at Vanderbilt University in April 2018.

Referee for papers submitted to the journal: Complex Anal. Oper. Theory.

Reviewer for MathSciNet math reviews.

Speaker at Washington University Szegő Seminar for graduate students, February 2014.

Teaching Experience

Fall	2018	Instructor, Multivariable Calculus
Spring	2018	Instructor, Differential Equations and Linear Algebra
Fall	2017	Instructor, Calculus I
Spring	2017	Instructor, Differential Equations and Linear Algebra
Fall	2016	Teaching Assistant, Calculus I
Summer	2015	Instructor, Calculus I
Fall	2014	Teaching Assistant, Calculus II
Fall	2013	Teaching Assistant, Differential Equations
Spring	2013	Teaching Assistant, Calculus I
Fall	2012	Teaching Assistant, Calculus I