CURRICULUM VITAE

CHRISTOPHER NATHAN BRODSKY HAMMOND

Connecticut College, Fanning Hall 270 Mohegan Avenue New London, CT 06320

Phone: (860) 439-2647 E-mail: cnham@conncoll.edu

Education

UNIVERSITY OF VIRGINIA – CHARLOTTESVILLE, VIRGINIA
August 1998 to May 2003
M.S. in Mathematics: May 2000
Ph.D. in Mathematics: May 2003
Dissertation: On the norm of a composition operator
Dissertation advisor: Barbara D. MacCluer

UNIVERSITY OF THE SOUTH – SEWANEE, TENNESSEE
August 1994 to May 1998
B.A. summa cum laude in English and Mathematics, with departmental honors in both majors and a minor in Religion

Employment

Connecticut College - New London, Connecticut

Professor of Mathematics July 2021 to the present

> Associate Professor of Mathematics July 2009 to June 2021

> Assistant Professor of Mathematics July 2003 to June 2009

Chair, Department of Mathematics and Statistics July 2021 to the present

Consultant to the Registrar's Office July 2021 to the present

Associate Dean of the College for Curriculum July 2015 to June 2021

Chair, Department of Mathematics July 2012 to the June 2015

- Courses taught: Calculus I, Calculus II, Calculus A, Calculus B, Calculus C, Intimations of Infinity (first-year seminar), Discrete Mathematics, Multivariable Calculus, Ordinary Differential Equations, Linear Algebra, Real Analysis I, Real Analysis II, Abstract Algebra I, Complex Analysis, Advanced Linear Algebra, Topology
- Individual studies supervised: Elementary Number Theory, Pedagogy and Group Theory, Ordinary Differential Equations, Linear Algebra, Real Analysis I, Advanced Linear Algebra, Abstract Algebra II
- Honors thesis supervised: *Functional Analysis and its Applications* by P. M. Luthy (winner of the 2005 Oakes and Louise Ames Prize)
- Undergraduate research supervised: "Operator-theoretic properties of linear transformations" (E. A. Parillo, Summer 2005); "Weighted Jamesian functions" (A. G. Woods, Summer 2015).
- New courses developed: Mathematics from a Cultural Perspective (with B. Baird and A. Robertson), Intimations of Infinity (first-year seminar), Advanced Linear Algebra, Topology
- UNIVERSITY OF VIRGINIA CHARLOTTESVILLE, VIRGINIA

Graduate Teaching Assistant August 1998 to May 2003

Courses taught: Introduction to Statistics, Applied Calculus I, Applied Calculus II, Calculus II, Calculus II

Peer-Reviewed Publications

- Complex symmetric weighted composition-differentiation operators of order *n* on the weighted Bergman spaces (with M. Moradi and M. Fatehi), *Oper. Matrices* 16 (2022), 479–494.
- Numerical range of weighted composition operators on the Fock space (with M. Haji Shaabani and M. Fatehi), *Complex Var. Elliptic Equ.* 67 (2022), 1529–1541.
- A second look at the second ratio test (with E. Omey), Amer. Math. Monthly 128 (2021), 579–596.

- Normality and self-adjointness of weighted composition-differentiation operators (with M. Fatehi), *Complex Anal. Oper. Theory* 15 (2021), Paper No. 9, 13 pp.
- Multi-opponent James functions (with W. P. Johnson), Math. Slovaca 70 (2020), 935–952.
- Ratios, roots, and means: a quartet of convergence tests, *Elem. Math.* 75 (2020), 89–102.
- 14. Another function with discontinuous derivative, *Math. Gaz.* **104** (2020), 315–318.
- Composition-differentiation operators on the Hardy space (with M. Fatehi), Proc. Amer. Math. Soc. 148 (2020), 2893–2900.
- Norms of weighted composition operators with automorphic symbol (with M. Fatehi), *Integral Equations Operator Theory* **92** (2020), Paper No. 13, 12 pp.
- 11. The case for Raabe's test, Math. Mag. 93 (2020), 36–46.
- The James function (with W. P. Johnson and S. J. Miller), Math. Mag. 88 (2015), 54–71.
- Which weighted composition operators are complex symmetric? (with S. R. Garcia), Oper. Theory Adv. Appl. 236 (2014), 171–179.
- Norm inequalities for composition operators on Hardy and weighted Bergman spaces (with L. J. Patton), Oper. Theory Adv. Appl. 202 (2010), 265–272.
- Adjoints of composition operators with rational symbol (with J. Moorhouse and M. E. Robbins), J. Math. Anal. Appl. 341 (2008), 626–639.
- Zeros of hypergeometric functions and the norm of a composition operator, Comput. Methods Funct. Theory 6 (2006), 37–50.
- Composition operators with maximal norm on weighted Bergman spaces (with B. J. Carswell), Proc. Amer. Math. Soc. 134 (2006), 2599-2605.
- The norm of a composition operator with linear symbol acting on the Dirichlet space, J. Math. Anal. Appl. 303 (2005), 499–508.
- Isolation and component structure in spaces of composition operators (with B. D. MacCluer), Integral Equations Operator Theory 53 (2005), 269–285.
- Norms of linear-fractional composition operators (with P. S. Bourdon, E. E. Fry, and C. H. Spofford), Trans. Amer. Math. Soc. 356 (2004), 2459–2480.

1. On the norm of a composition operator with linear fractional symbol, *Acta Sci. Math. (Szeged)* **69** (2003), 813–829.

Open Educational Resources

The Art of Analysis (2022). Open Educational Resources. 3. https://digitalcommons.conncoll.edu/oer/3

Recent Talks

October 12, 2022 Providence College Mathematics/Computer Science Department Colloquium "When does a series 'look like' a *p*-series?"

October 4, 2019 Northeastern Analysis Meeting (Syracuse, New York) "Composition-differentiation operators on the Hardy space"

November 18, 2017 MAA Northeastern Sectional Meeting (Fairfield, Connecticut) "The case for Raabe's test"

October 21, 2016 Providence College Mathematics/Computer Science Department Colloquium "The James function"

September 22, 2016 United States Coast Guard Academy Mathematics Department Colloquium "The James function"

August 7, 2015 MathFest (Washington, DC) Contributed Paper Session "Multi-opponent James functions"

August 8, 2014 MathFest (Portland, Oregon) Contributed Paper Session "The James function"

March 6, 2014 College of Wooster "The James function"

Other Activities

Referee for 97 papers submitted to mathematical journals Author of 83 reviews for Mathematical Reviews Contributed abstracts of books and articles to the journal *Historia Mathematica*

Service at Connecticut College

Serving as chair of the Academic and Administrative Procedures Committee
Served as chair of the the Educational Planning Committee
Served on the Faculty Steering and Conference Committee
Served as chair of the Student-Designed Interdisciplinary Majors and Minors Committee
Served as chair of the Integrative Pathways Approval Committee
Serving as coordinator of the New London Scholars Program
Served as coordinator of the Eye of the Mind Integrative Pathway

Served as coordinator of the Eye of the Mind Integrative Fathway

Served on the planning committee for the 2006 presidential inauguration

Served on hiring committees for six tenure-track faculty positions and two longterm visitors

Serving as faculty advisor for the local chapter of Pi Mu Epsilon (Connecticut Epsilon)

Serving as chair of the membership committee for the local chapter of Phi Beta Kappa (Delta of Connecticut)

Honors and Memberships

Member of the American Mathematical Society

ExxonMobil fellow for Project NExT (New Experiences in Teaching) Recipient of the Helen Brooks Regan Faculty Leadership Award (Spring 2022) Recipient of departmental Dissertation Year Fellowship (Spring 2003) Finalist for departmental Graduate Teaching Assistant Award (Spring 2002) Awarded Robert Hooke Prize for Achievement in Mathematics (Spring 1998) Awarded Membership to Phi Beta Kappa (Spring 1997)