

## Brett D. Wick

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### Education:

Brown University  
Ph.D. in Mathematics, June 2005  
Sc.M. in Mathematics, May 2003

University of Houston  
B.S. in Mathematics, May 2001  
Minor in Physics, May 2001

### Professional Experience:

Robert G. and Maxine W. Scheibe Professor of Mathematics, Fall 2025 – Present.

Chair of the Department of Mathematics, Washington University - St. Louis, Summer 2025 – Present.

Dean's Fellow on Digital Transformations, College of Arts & Science, Washington University in Saint Louis, Summer 2022 – Summer 2024.

Professor of Mathematics, Washington University - St. Louis, Summer 2017 – Present.

Director of Graduate Studies, Washington University - St. Louis, Summer 2017 – Summer 2022.

Associate Professor of Mathematics, Washington University - St. Louis, Fall 2015 – Summer 2017.

Director of Postdoctoral Teaching Effectiveness, School of Mathematics, Georgia Institute of Technology, Fall 2013 – Summer 2015.

Associate Professor of Mathematics, Georgia Institute of Technology, Fall 2012 – Summer 2016.

Assistant Professor of Mathematics, Georgia Institute of Technology, Fall 2009 – Summer 2012.

Palmetto Assistant Professor of Mathematics, University of South Carolina, Fall 2007 – Summer 2009.

Assistant Professor of Mathematics, Vanderbilt University, Fall 2005 – Summer 2007.

Updated October 16, 2025

**Visiting Positions:**

- Poste Rouge, Aix Marseille Université, Spring 2024 (3 months).
- Visiting Professor, Macquarie University, Summer 2018, 2019 (1 month).
- Poste Rouge, Université Orleans and Université de Nantes, Spring 2017 (3 months).
- Poste Rouge, Université Bordeaux, Summer 2015 (1 month).
- Oberwolfach Simons Visiting Professor, Universität des Saarlandes, Summer 2014 (1 week).
- Professeur Invité, Université Paul Sabatier – Toulouse, Summer 2013 (1 month).
- Bucknell Distinguished Visiting Professor, Fall 2009, Fall 2010, Spring 2014 (1 week).
- Professeur Invité, Université Paul Verlaine – Metz, Summer 2009 (1 month).

**Teaching Experience:**

**Washington University - St. Louis:**

- Graduate Complex Analysis, Fall 2018, Spring 2019, Spring 2025.
- Professional Development Seminar, Fall 2024.
- Teaching Seminar, Fall 2024.
- Calculus III, Fall 2023.
- Linear Algebra, Fall 2022.
- Calculus II, Fall 2022.
- Introduction to Real Analysis, Spring 2022.
- Probability, Spring 2021.
- Differential Equations, Fall 2020.
- Foundations of Mathematics, Fall 2019.
- Graduate Real Analysis, Fall 2016.
- Graduate Harmonic Analysis, Fall 2017, Fall 2019, Fall 2021.
- Calculus I, Spring 2018, Fall 2015 (Two Sections).

**Georgia Institute of Technology:**

Calculus III, Fall 2009, Fall 2013, Fall 2014.  
Foundations of Mathematical Proofs, Spring 2014.  
Undergraduate Real Analysis II, Spring 2013.  
Undergraduate Real Analysis I, Fall 2012.  
Graduate Real Analysis II, Spring 2012.  
Graduate Real Analysis I, Fall 2011.  
Graduate Complex Analysis, Spring 2011.  
Analytic Function Theory, Fall 2010.  
Calculus III for Computer Scientists, Fall 2009.

**Research:**

**Research Interests:**

Harmonic Analysis      Several Complex Variables  
Function Theory      Operator Theory

**Awards and Honors:**

**Research Recognitions:**

Fellow of the American Mathematical Society.  
NSF CAREER Award, Fall 2010 – Spring 2015.  
Alexander von Humboldt Research Fellow, Spring 2010 – Spring 2012.  
American Mathematical Society Ky Fan Fund Exchange Fellow, Summer 2013.  
Jerrold E. Marsden Postdoctoral Fellow, Fields Institute, Spring 2008.  
Wallenberg Postdoctoral Fellow, Swedish Royal Institute of Technology, Fall 2007.  
Young Investigator: Workshop in Analysis and Probability, Texas A&M University, Summer 2006.

**Mentoring and Teaching Recognitions:**

Georgia Tech Hesburgh Award Teaching Fellow, Fall 2015; declined.  
Georgia Tech College of Sciences 2014 Faculty Mentor Award.  
Georgia Tech Class of 1969 Teaching Scholar, Fall 2012.

**Grants Awarded:**

1. National Science Foundation – DMS # **2349868** “Testing Theorems in Analytic Function Theory, Harmonic Analysis and Operator Theory”, 07/01/2024 – 06/30/2027, \$310,000.
2. National Science Foundation – DMS # **2402028** “Conference: Geometric Measure Theory, Harmonic Analysis, and Partial Differential Equations: Recent Advances”, 01/15/2024 – 12/15/2024, \$42,000.
3. National Science Foundation – DMS # **2230844** “Conference: Recent Advances and Past Accomplishments in Harmonic Analysis”, 07/01/2022 – 06/30/2024, \$13,500.
4. National Science Foundation – DMS # **2054863** “Symmetry Parameter Analysis of Singular Integrals”, 07/01/21 – 06/30/25, \$197,616.
5. National Science Foundation – DMS # **2000510** “Singular Integrals with Modulation or Rotational Symmetry”, 09/01/19 – 06/30/22, \$131,614.
6. Australian Research Council – DP 220100285 “Harmonic Analysis of Laplacians in Curved Spaces,” 01/01/2022 – 12/31/2024, \$375,000 (AUD).
7. National Science Foundation – DMS # **1954733** “GPOTS 2020”, 02/01/20 – 01/31/21, \$40,000.
8. National Science Foundation – DMS # **1936503** “International Conference on Interpolation in Spaces of Analytic Functions at CIRM”, 07/01/19 – 06/30/20, \$12,000.
9. Australian Research Council – DP 190100970 “Harmonic analysis: function spaces and partial differential equations,” 01/01/2019 – 12/31/2021, \$390,000 (AUD).
10. National Science Foundation – DMS # **1800057** “Applications of Harmonic Analysis to Riesz Transforms and Commutators beyond the Classical Settings”, 07/01/18 – 06/30/23, \$276,758.
11. National Science Foundation – DMS # **1603246** “CAREER: An Integrated Proposal Based on the Corona Problem”, 08/01/10 – 07/31/16, \$36,570.
12. National Science Foundation – DMS # **1560955** “Applications of Harmonic Analysis to Function Theory and Operator Theory”, 08/17/15 – 06/30/2020, \$180,001.
13. National Science Foundation – DMS # **1500509** “Applications of Harmonic Analysis to Function Theory and Operator Theory”, 07/01/15 – 07/31/2018, \$180,001.
14. National Science Foundation – DMS # **1344199** “MCTP: A Postdoctoral Program for Interdisciplinary Mathematics Preparation And Career Training (IMPACT) in the School of Mathematics at the Georgia Institute of Technology”, 09/15/14 – 03/31/2021, \$1,299,994 (Co-Principal Investigator).
15. National Science Foundation – DMS # **1241272** “NSF/CBMS Regional Conference in the Mathematical Sciences: Uncertainty Principles in Harmonic Analysis: Gap and Type Problems”, 09/15/12 – 8/31/2013, \$35,050 (Co-Principal Investigator).
16. National Science Foundation – DMS # **1200994** “The Corona Problem: Connections Between Operator Theory, Function Theory and Geometry”, 11/01/11 – 10/31/2012, \$18,000.

17. National Science Foundation – DMS # **1001098** “Function Theory and Operator Theory via Harmonic Analysis on the Polydisc”, 06/01/10 – 05/31/13, \$53,003.
18. National Science Foundation – DMS # **0955432** “CAREER: An Integrated Proposal Based on the Corona Problem”, 08/01/10 – 07/31/15, \$449,439.
19. National Science Foundation – DMS # **0969431** “SEAM XXVI Georgia Institute of Technology Spring 2010”, 01/01/10 – 12/31/10, \$24,300.
20. National Science Foundation – DMS # **0752703** “Investigations on the Corona Problem and a Study of Multi-Parameter Harmonic Analysis”, 08/16/07 – 07/31/09, \$58,907.
21. National Science Foundation – DMS # **0555896** “Investigations on the Corona Problem and a Study of Multi-Parameter Harmonic Analysis”, 08/16/06 – 07/31/09, \$80,867.

**Publications:****Preprints:**

1. Ji Li, Trang T.T. Nguyen, Lesley A. Ward and Brett D. Wick, Non-homogeneous  $T(1)$  Theorem on Product Quasimetric Spaces.
2. Eric T. Sawyer and Brett D. Wick, The Hytönen-Vuorinen  $L^p$  Conjecture for the Hilbert Transform when  $\frac{4}{3} < p < 4$  and the measures share no point masses.
3. Xuan Thinh Duong, Ji Li, Yumeng Ou, Jill C. Pipher and Brett D. Wick, Weighted Estimates of Singular Integrals and Commutators in the Zygmund Dilation Setting.
4. Xuan Thinh Duong, Hong-Quan Li, Ji Li, Brett D. Wick and Qingyan Wu, Kernel Behavior of Riesz Transforms and Second Order Riesz Transforms on Stratified Lie Groups.
5. Michael Lacey, Eric Sawyer, Chun-Yen Shen, Ignacio Uriarte-Tuero and Brett D. Wick, Two Weight Inequalities for the Cauchy Transform from  $\mathbb{R}$  to  $\mathbb{C}_+$ .
6. Michael Lacey and Brett D. Wick, Two Weight Inequalities for Riesz Transforms: Uniformly Full Dimension Weights.
7. Xuan Thinh Duong, Ji Li and Brett D. Wick, Two Weight Commutators for Beurling-Ahlfors Operator.
8. Mishko Mitkovski and Brett D. Wick, On the Uniqueness Sets in the Fock Space.

**Submitted:**

1. Cezhong Tong, Brett D. Wick and Zicong Yang, An elimination method for the difference of generalized weighted composition operators, submitted to *Studia Math.* (10-16-2025).
2. Fabrizio Colombo, Elodie Pozzi, Irene Sabadini, and Brett D. Wick, Some infinite order differential operators associated with superoscillations in several variables, submitted to *Complex Anal. Oper. Theory* (10-05-2025).
3. Fabrizio Colombo, Elodie Pozzi, Irene Sabadini and Brett D. Wick, The Corona Problem for Slice Hyperholomorphic Functions, submitted to *IMRN* (08-30-2025).

4. Der-Cheng Chang, Ruming Gong, Ji Li, Chong-Wei Liang, Brett D. Wick and Liangchuan Wu, Sharp Upper and Lower  $L^p$  Bounds for Dunkl Area Integrals, submitted to Springer Applied and Numerical Harmonic Analysis (07-04-2025).
5. The Anh Bui, Xuan Thinh Duong, Guorong Hu, Ji Li and Brett D. Wick, Sharp Estimates for Schrödinger Groups on Non-Doubling Manifolds with Ends, submitted to J. Diff. Eq. (04-21-2025).
6. Xuan Thinh Duong, Loredana Lanzani, Ji Li and Brett D. Wick, The Commutator of the Cauchy-Szegö Projection for Domains in  $\mathbb{C}^n$  with Minimal Smoothness: Weighted Regularity, submitted to J. Geom. Anal. (04-14-2025).
7. Xuan Thinh Duong, Loredana Lanzani, Ji Li and Brett D. Wick, The Cauchy-Szegö Projection for Domains in  $\mathbb{C}^n$  with Minimal Smoothness: Weighted Theory, submitted to J. Geom. Anal. (04-14-2025).
8. Michael T. Lacey, Ji Li, Brett D. Wick and Liangchuan Wu, Two weighted Besov spaces via Sobolev–Slobodeckii norms, submitted to J. Geom. Anal. (01-20-2025).
9. Francesco Di Plinio, Walton Green and Brett D. Wick, Wavelet Resolution and Sobolev Regularity of Calderón-Zygmund Operators on Domains, submitted to Proc. Lond. Math. Soc. (08-09-2024).
10. Ming-Yi Lee, Ji Li and Brett D. Wick, Lipschitz spaces in Neumann setting, submitted to Commun. Contemp. Math. (05-10-2022).

**Accepted or Published:**

1. Yongsheng Han, Ming-Yi Lee, Ji Li and Brett D. Wick, Endpoint Estimate for Calderon–Zygmund Operators in the Multiparameter Flag Setting, Adv. Math. *to appear*.
2. Michael Lacey, Ji Li and Brett D. Wick, Schatten Class Estimates for Paraproducts in the Multiparameter Setting and Applications, submitted to J. Math. Soc. Japan *to appear*.
3. Anastasios Fragkos, Walton Green, and Brett D. Wick, Multilinear Wavelet Compact  $T(1)$  Theorem, J. Anal. Math. *to appear*.
4. Cody B. Stockdale, Paco Villarroya, Brett D. Wick, Note on: “Sparse domination results for compactness on weighted spaces” , Collect. Math. 76 (2025), no. 3, 695–697.
5. Qingdong Guo, Ji Li and Brett D. Wick, Fefferman–Stein type decomposition of CMO spaces in the Dunkl setting and an application, Nonlinear Anal. 262 (2026), Paper No. 113916.
6. Fabrizio Colombo, Elodie Pozzi, Irene Sabadini and Brett D. Wick, Aharonov-Bohm effect and superoscillations, J. Math. Phys. 66 (2025), no. 7, Paper No. 073501.
7. Jorge J. Betancor, Xuan Thinh Duong, Ming-Yi Lee, Ji Li and Brett D. Wick, The Riesz Transform and Fractional Integral Operators in the Bessel Setting, Integral Equations Operator Theory 97 (2025), no. 2, Paper No. 15, 29 pp.
8. Michael T. Lacey, Ji Li, Brett D. Wick and Liangchuan Wu, Schatten classes and commutators of Riesz transforms in the two weight setting, J. Funct. Anal. 289 (2025), no. 6, Paper No. 111028.

9. Seunghwan Kim, Thomas Kannamplilil, Brett D. Wick, Jay Holmgren, Robert Thombly, Julia Adler-Milstein, Sunny S. Lou, Exploring Task Patterns in EHR Workflows using Action Sequence Embedding and Graph-Based Analysis, 20th World Congress on Medical and Health Informatics: MedInfo 2025 Proceedings MedInfo 2025 *to appear*.
10. Daewon Chung, Jean Carlo Moraes, María Cristina Pereyra and Brett D. Wick, Two-weight estimates for the square function and  $t$ -Haar multipliers, *J. Geom. Anal.* 35 (2025), no. 6, Paper No. 173, 32 pp.
11. Daewon Chung, Claire (Weiyan) Huang, Jean Carlo Moraes, María Cristina Pereyra and Brett D. Wick, Weighted Inequalities for  $t$ -Haar multipliers, *J. Geom. Anal.* 35 (2025), no. 6, Paper No. 173.
12. Francesco Di Plinio, Walton Green, and Brett D. Wick, Quantitative Sobolev Regularity of Quasiregular Maps, *Ann. Fenn. Math.*, 50 (2025), no.1, 3–28.
13. Francesco Di Plinio, A. Walton Green, and Brett D. Wick, Multilinear paraproducts on Sobolev spaces, *Boll. Unione Mat. Ital.* 18 (2025), no.1 167–183.
14. Eric T. Sawyer and Brett D. Wick, Two Weight  $L^p$  Inequalities for Smooth Calderón-Zygmund Operators and Doubling Measures, *J. Geom. Anal.* 35 (2025), no. 2, Paper No. 44, 77pp.
15. Ji Li, Chong-Wei Liang, Chun-Yen Shen, and Brett D. Wick, Muckenhoupt-type Weights and Quantitative Weighted Estimates in the Bessel Setting, *Math. Z.* 309 (2025), Paper No. 13, 29pp.
16. Zhenghui Huo and Brett D. Wick,  $L^p$  Regularity of the Bergman Projection on the Symmetrized Polydisc, *Canad. J. Math.* 2025, pp. 1–26.
17. Eric T. Sawyer and Brett D. Wick, Correction to: Two weight Sobolev norm inequalities for smooth Calderón–Zygmund operators and doubling weights. *Math. Z.* 307 (2024), no.2, Paper No. 40, 4pp.
18. Yongsheng Han, Ming-Yi Lee and Ji Li, Riesz transform and commutators in the Dunkl setting, *Anal. Math. Phys.* (2024) 14:46, 1–32.
19. Arni S. R. Srinivasa Rao, Siqi Fui, Greg Knese, Verma, Kaushal; Brett D. Wick, Steven George Krantz (1951 -) Celebrates his 70th Birthday, *Complex Anal. Oper. Theory* 18 (2024), no.2, Paper no. 35, 5pp.
20. Zhenbing Gong, Ji Li and Brett D. Wick, Besov Spaces, Schatten Classes and Weighted Versions of the Quantised Derivative, *Anal. Math.* 49 (2023), no.4, 971–1006.
21. Yongsheng Han, Ming-Yi Lee, Ji Li, and Brett D. Wick, Lipschitz Spaces and Triebel-Lizorkin Spaces in the Dunkl Setting, *Nonlinear Anal.* 237 (2023), Paper No. 113365, 36pp.
22. Zhenghui Huo and Brett D. Wick, Weighted Estimates of the Bergman Projection with Matrix Weights, *Recent Progress in Function Theory and Operator Theory, Contemp. Math.*, 799, 53–73.
23. Fabrizio Colombo, Elodie Pozzi, Irene Sabadini and Brett D. Wick, Evolution of Superoscillations for Spinning Particles, *Proc. Amer. Math. Soc. Ser. B* 10 (2023), 129–143.

24. Michael T. Lacey, Ji Li and Brett D. Wick, Schatten classes and commutator in the two weight setting, I. Hilbert Transform, *Potential Anal.* **60** (2024), no. 2, 875–894.
25. Francesco Di Plinio, Walton Green, and Brett D. Wick, Bilinear Wavelet Representation of Calderón-Zygmund Forms, *Pure Appl. Anal.* **5-1** (2023), 47–83.
26. Xuan Thinh Duong, Ming-Yi Lee, Ji Li and Brett D. Wick, The Two Weight Inequality for the Poisson Semigroup on Manifold with Ends, *Comm. Anal. Geom.* **32** (2024), no. 5, 1339–1374.
27. Francesco Di Plinio, Tyler Williams and Brett D. Wick, Wavelet Representation of Singular Integral Operators, *Math. Ann.* **386**, (2023) 1829–1889.
28. Zhijie Fan, Michael Lacey, Ji Li, Manasa Vempati and Brett D. Wick, Besov Space, Schatten Classes And Commutators of Riesz Transforms Associated with the Neumann Laplacian, *Michigan Math. J.* **75** (2025), 1–26.
29. Nguyen Anh Dao and Brett D. Wick, Hardy factorization in terms of multilinear Calderón–Zygmund operators using Morrey spaces, *Potential Anal.* **59** (2023), no.1, 41–64.
30. Mishko Mitkovski, Cody B. Stockdale, Nathan A. Wagner, and Brett D. Wick, Riesz-Kolmogorov type compactness criteria in function spaces with applications, *Complex Anal. Oper. Theory* **17** (2023), no. 3, Paper No. 40, 31pp.
31. Eric Sawyer and Brett D. Wick, Two weight Sobolev norm inequalities for smooth Calderón-Zygmund operators and doubling weights, *Math. Z.* **303** (2023), no. 4, 81, 74pp.
32. Cody B. Stockdale, Francisco Villaroya and Brett D. Wick, Sparse Domination Results for Compactness on Weighted Space, *Collect. Math.* **73** (2022), no. 3, 535–563.
33. Brett D. Wick and Shengkun Wu, Integral Operators on Fock-Sobolev Spaces via Multipliers on Gauss-Sobolev Spaces, *Integral Equations Operator Theory* **94** (2022), no. 2, Paper No. 22, 24pp.
34. David Békollé, Adriel Keumo, Edgar Tchoundja, and Brett D. Wick, Weighted estimates for operators associated to the Bergman-Besov kernels, *Adv. Pure Appl. Math.* **2022**, vol. 13, no, 3, 9–52.
35. Alberto Dayan, Brett D. Wick and Shengkun Wu, Random Interpolating Sequences in the Polydisc and the Unit Ball, *Comput. Methods Funct. Theory* **23** (2023), no. 1, 165198, .
36. Xuan Thinh Duong, Ji Li, Eric T. Sawyer, Manasa N. Vempati, Brett D. Wick and Dongyong Yang, A Two Weight Inequality for Calderón–Zygmund Operators on Spaces of Homogeneous Type with Applications, *J. Funct. Anal.* **281** (2021), no. 9, Paper No. 109190.
37. Brett D. Wick and Shengkun Wu, Fock space on  $\mathbb{C}^\infty$  and Bose-Fock space, *J. Math. Anal. App.* **505** (2022), no. 2, Paper No. 125499, 24pp.
38. Zhenghui Huo, Nathan A. Wagner and Brett D. Wick, Bekollé-Bonami Estimates on some Pseudoconvex Domains, *Bull. Sci. Math.* **170** (2021), 102993, 36pp.
39. Elodie Pozzi and Brett D. Wick, Persistence of Superoscillations under the Schrödinger Equation, *Evol. Equ. Control Theory*, June 2022, 11(3): 869-894.

40. Nikolaos Chalmoukis, Andreas Hartmann, Karim Kellay and Brett D. Wick, Random Interpolating Sequences in Dirichlet Spaces, *Int. Math. Res. Not. IMRN* 2022, no. 17, 13629–13658.
41. Michael T. Lacey, Stefanie Petermichl, Jill C. Pipher and Brett D. Wick, Notification of error: multiparameter Riesz commutators. *Amer. J. Math.* 143 (2021), no. 2, 333–334.
42. David Bekolle, Hugues Olivier Defo, Edgar Tchoundja and Brett D. Wick, Little Hankel Operators Between Vector-Valued Bergman Spaces on the Unit Ball, *Integral Equations Operator Theory* 93 (2021), no. 3, 28.
43. Nathan A. Wagner and Brett D. Wick, Weighted  $L^p$  Estimates for the Bergman and Szegő Projections on Strongly Pseudoconvex Domains with Near Minimal Smoothness, *Adv. Math.* **384** (2021), 107745.
44. Xuan Thinh Duong, Ji Li, Brett D. Wick and Dongyong Yang, Characterizations of Product Hardy Spaces in the Bessel Setting, *J. Fourier Anal. Appl.* **27** (2021), no. 2, 24.
45. Bingyang Hu, Songxiao Li, Yecheng Shi and Brett D. Wick, Sparse Domination of Weighted Composition Operators on Weighted Bergman Spaces, *J. Funct. Anal.* **280** (2021), no. 6, 108897.
46. Brett D. Wick, Commutators, BMO, Hardy Spaces and Factorization: A Survey, *Real Anal. Exchange*, **45** (2020), no. 1, 1-28.
47. Zhenghui Huo, Nathan A. Wagner and Brett D. Wick, A Bekolle-Bonami Class of Weights for Certain Pseudoconvex Domains, *J. Geom. Anal.* **31** (2021), no. 6, 6042–6066.
48. Pamela Gorkin and Brett D. Wick, Interpolation in Model Spaces, *Proc. Amer. Math. Soc. Ser. B* 7 (2020), 170–182.
49. Robert Rahm, Eric Sawyer and Brett D. Wick, Weighted Alpert Wavelets. *J. Fourier Anal. Appl.* **27** (2021), no. 1, Paper No. 1.
50. Zhenghui Huo and Brett D. Wick, Weighted estimates for the Bergman projection on the Hartogs triangle. *J. Funct. Anal.* **279** (2020), no. 9, 108727.
51. Ji Li and Brett D. Wick, The Two-Weight Inequality for the Poisson Operator in the Bessel Setting, *J. Math. Anal. Appl.* **489** (2020), no. 2, 124178, 15 pp.
52. Kelly Bickel, Taneli Korhonen, Two-Weight  $Tb$  Theorems for Well-Localized Operators, *Math. Nachr.* **294** no. 7 (2021), 1277–1294.
53. Zhenghui Huo and Brett D. Wick, Weak-type estimates for the Bergman projection on the polydisc and the Hartogs triangle, *Bulletin London Math.* **52** (2020), 891–906.
54. Tyler Bongers, Zihua Guo, Ji Li and Brett D. Wick, Commutators of Hilbert transforms along monomial curves, *Studia Math.* **257** (2021) no.3, 295-311.
55. Guangfu Cao, Ji Li, Minxing Shen, Brett D. Wick and Lixin Yan, A Boundedness Criterion for Singular Integral Operators of Convolution type on the Fock Space, *Adv. Math.* **363** (2020) 107001, 33 pp.

56. Xuan Thinh Duong, Ruming Gong, Marie-Jose S. Kuffner, Ji Li, Brett D. Wick and Dongyong Yang, Two weight commutators on spaces of homogeneous type and applications, *J. Geom. Anal.* **31** (2021) no. 1, 980–1038.
57. Xuan Thinh Duong, Michael Lacey, Ji Li, Brett D. Wick and Qingyan Wu, Commutators of Cauchy type integrals for domains in  $\mathbb{C}^n$  with minimal smoothness, *Indiana Univ. Math. J.* **70** (2021), no. 4, 1505–1541.
58. Yongsheng Han, Ji Li, Maria Cristina Pereyra and Brett D. Wick, A note on weak factorization of Meyer-type Hardy space via Cauchy integral operator, *Studia Math.* **250** (2020), no. 3, 307–327.
59. Yongsheng Han, Ming-Yi Lee, Ji Li and Brett D. Wick, Characterizations of flag Hardy space via Riesz transforms, maximal functions and Littlewood-Paley theory, *Mem. Amer. Math. Soc.* 279 (2022), no. 1373.
60. Cody Stockdale and Brett D. Wick, An Endpoint Weak-Type Estimate for Multilinear Calderón-Zygmund Operators, *J. Fourier Anal. Appl.*, **25** (5), 2635–2652.
61. Xuan Thinh Duong, Irina Holmes, Ji Li, Brett D. Wick and Dongyong Yang, Two Weight Commutators in the Dirichlet and Neumann Laplacian Settings, *J. Funct. Anal.* **276** (2019) no. 4, 1007–1060.
62. Zhenghui Huo and Brett D. Wick, Compactness of operators on the Bergman space of the Thullen domain, *J. Operator Theory* **83** (2020), no. 2, 391–421.
63. Ji Li, Trang T.T. Nguyen, Lesley Ward and Brett D. Wick, The Cauchy Integral, Bounded and Compact Commutators, *Studia Math* **250** (2020), no. 2, 193–216.
64. The Anh Bui, Xuan Thinh Duong, Ji Li and Brett D. Wick, Functional calculus of operators with generalised Gaussian bounds on non-doubling manifold with ends, *Indiana Univ. Math. J.* **69** (2020), no. 3, 713–747.
65. Robert Rahm, Ji Li and Brett D. Wick,  $A_p$  Weights and Quantitative Estimates in the Schrödinger Setting, *Math. Z.* **293** (2019), no. 1-2, 259–283.
66. Brett D. Wick, A Review of “The theory of  $H(b)$  spaces, Vol. 1 & Vol. 2”, *Bull. Amer. Math. Soc. (N.S.)* 56 (2019), no. 3, 535–542.
67. Xuan Thinh Duong, Ji Li, Yumeng Ou, Jill Pipher and Brett D. Wick, Commutators of multi-parameter flag singular integrals and applications, *Anal. PDE* **12** (2019), no. 5, 1325–1355.
68. Roc Oliver Vendrell and Brett D. Wick, Weak factorization of Hardy spaces in the Bessel setting, *Anal. Math.* **45** (2019), no. 2 391–411.
69. Xuan Thinh Duong, Hong-quan Li, Ji Li and Brett D. Wick, Lower bound of Riesz transform kernels and Commutator Theorems on stratified nilpotent Lie groups, *J. Math. Pures Appl. (9)* **124** (2019), 273–299.
70. Michael Hartz and Brett D. Wick, Ideal membership in  $H^\infty$ : a Hilbert space approach, *Integral Equations Operator Theory* **90** (2018), no. 6, 16 pp.
71. Zhangjian Hu, Xiaofen Lv and Brett D. Wick, Weakly Localized Operators on Fock Spaces with Application to Compactness, *J. Math. Anal. Appl.* **461** (2018), no. 2, 1711–1732.

72. Irina Holmes, Stefanie Petermichl and Brett D. Wick, Weighted little bmo and two-weight inequalities for Journé commutators, *Anal. PDE* **11** (2018), no. 7, 1693–1740.
73. Kelly Bickel, Amalia Culiuc, Sergei Treil and Brett D. Wick, Two Weight Estimates with Matrix Measures for Well Localized Operators, *Trans. Amer. Math. Soc.* **371** (2019), no. 9, 6213–6240.
74. Xuan Thinh Duong, Ji Li, Yumeng Ou, Brett D. Wick and Dongyong Yang, Product BMO, little BMO and Riesz commutators in the Bessel setting, *J. Geom. Anal.* **28** (2018), no. 3, 2558–2601.
75. Irina Holmes and Brett D. Wick, Two Weight Inequalities for Iterated Commutators with Calderón-Zygmund Operators, *J. Operator Theory* **79** (2018), no. 1, 33–54.
76. Xuan Thinh Duong, Ji Li, Brett D. Wick and Dongyong Yang, A Constructive Proof of Weak Factorization for the Predual of Little BMO Spaces, *Ann. Inst. Fourier* **68** (2018) no.1 109–129.
77. Ji Li and Brett D. Wick, Weak Factorizations of the Hardy space  $H^1(\mathbb{R}^n)$  in terms of Multilinear Riesz Transforms, *Canad. Math. Bull.* **60** (2017), no. 3, 571–585.
78. Jorge J. Betancor, Xuan Thinh Duong, Ji Li, Brett D. Wick and Dongyong Yang, Product Hardy, BMO spaces and iterated commutators associated with Bessel Schrödinger operators, *Indiana Univ. Math. J.* **68** no. 1 (2019), 247–289.
79. Ji Li and Brett D. Wick, Characterizations of  $H^1_{\Delta_N}(\mathbb{R}^n)$  and  $BMO_{\Delta_N}(\mathbb{R}^n)$  via Weak Factorizations and Commutators, *J. Funct. Anal.*, **272** (2017), no. 12, 5384–5416.
80. José A. Peláez, Jouni Rättyä and Brett D. Wick, Bergman projection induced by kernels with integral representation, *J. Anal. Math.*, **138** (2019), no. 1, 325–360.
81. Philippe Jaming, Elodie Pozzi and Brett D. Wick, Lower Bounds for the Dyadic Hilbert Transform, *Ann. Fac. Sci. Toulouse Math., Sér. 6* **27**, no. 1, 265–284.
82. Robert Rahm, Edgar Tchoundja and Brett D. Wick, Weighted Estimates for the Berezin Transform and Bergman Projection on the Unit Ball in  $\mathbb{C}^n$ , *Math. Z.* **286** (2017), no. 3–4, 1465–1478.
83. Eric Sawyer and Brett D. Wick, The Corona Problem for Kernel Multiplier Algebras, *Integral Equations Operator Theory*, **86** (2016), no. 4, 495–544.
84. Sandra Pott, Maria Carmen Reguera, Eric Sawyer and Brett D. Wick, Composition of Dyadic Paraproducts, *Adv. Math.* **298** (2016) 581–611.
85. Sandra Pott, Eric Sawyer, Maria Carmen Reguera and Brett D. Wick, The Linear Bound for the Natural Weighted Resolution of the Haar Shift, *Conference Proceedings of AMSI/AustMS 2014 Workshop in Harmonic Analysis and its Applications*, **47** (2017) 83–105.
86. Stefan Richter and Brett D. Wick, A Remark on the Multipliers on Spaces of Weak Products of Functions, *Concr. Oper.*, **3** (2016) 25–28.
87. Xuan Thinh Duong, Ji Li, Brett D. Wick and Dongyong Yang, Hardy space via factorization, BMO space via Commutators in the Bessel Setting, *Indiana Univ. Math. J.*, **66** (2017) 1081–1106.

88. Irina Holmes, Michael T. Lacey and Brett D. Wick, Commutators in the Two-Weight Setting, *Math. Ann.* **367** (2017), no. 1-2, 51-80.
89. Kelly Bickel, Stefanie Petermichl and Brett D. Wick, Bounds for the Hilbert Transform with Matrix  $A_2$  Weights, *J. Funct. Anal.* **270** (2016), no. 5, 1719–1743.
90. Irina Holmes, Michael T. Lacey and Brett D. Wick, Bloom’s Inequality: Commutators in a Two-Weight Setting, *Arch. Math. (Basel)*, **106** (2016), no. 1, 53–63.
91. Brett D. Wick, Carleson measures in spaces of analytic functions. *Proceedings of the Summer School in Complex and Harmonic Analysis and Related Topics*, 99–139, Publ. Univ. East. Finl. Rep. Stud. For. Nat. Sci., **22**, Univ. East. Finl., Fac. Sci. For., Joensuu, 2016.
92. Pamela Gorkin and Brett D. Wick, Thin Sequences, *Conference Proceedings of Mittag-Leffler, Contemp. Math.* **679** Amer. Math. Soc., Providence, RI, 2016, 129–145.
93. Kelly Bickel and Brett D. Wick, Well-Localized Operators on Matrix Weighted  $L^2$  Spaces, *Houston J. Math.*, **42** (2016), no. 1, 249–284.
94. Pamela Gorkin and Brett D. Wick, Thin Sequences and Their Role in Model Spaces and Douglas Algebras, *J. Fourier Anal. Appl.*, **22** (2016), no. 1, 137–158.
95. Kelly Bickel and Brett D. Wick, A Study of the Matrix Carleson Embedding Theorem with Applications to Sparse Operators, *J. Math. Anal. Appl.*, **435** (2016), no. 1, 229–243.
96. Robert Rahm and Brett D. Wick, The Essential Norm of Operators on the Bergman Space of Vector-Valued Functions on the Unit Ball, *Function Spaces in Analysis*, *Contemp. Math.* **645**, Amer. Math. Soc., Providence, RI, 2015, 249–281.
97. Josh Isralowitz, Mishko Mitkovski and Brett D. Wick, Localization and Compactness in Bergman and Fock Spaces, *Indiana Univ. Math. J.* **64** (2015), no. 5, 1553–1573.
98. Mishko Mitkovski and Brett D. Wick, A Reproducing Kernel Thesis for Operators on Bergman-type Function Spaces, *J. Funct. Anal.* **267** (2014), no. 7, 2028–2055.
99. Pamela Gorkin, Sandra Pott, John McCarthy and Brett D. Wick, Thin Sequences and the Gram matrix, *Arch. Math. (Basel)* **103** (2014), no. 1, 93–99.
100. Kelly Bickel, Eric Sawyer and Brett D. Wick, The Linear Bound for Haar Multiplier Para-products, *Conference Proceedings for Invariant Subspaces of the Shift Operator*, *Contemp. Math.* **638**, Amer. Math. Soc., Providence, RI, 2015, 267–286.
101. Ron Douglas, Steve Krantz, Eric Sawyer, Sergei Treil and Brett D. Wick, A History of the Corona Problem, *The Corona Problem: Connections Between Operator Theory, Function Theory and Geometry*, *Fields Inst. Commun.* **72**, Springer 2014, 1–30.
102. Sergei Treil and Brett D. Wick, Corona Solutions Depending Smoothly on Corona Data, *The Corona Problem: Connections Between Operator Theory, Function Theory and Geometry*, *Fields Inst. Commun.* **72**, Springer 2014, 201–210.
103. Pamela Gorkin, Sandra Pott and Brett D. Wick, Thin Sequences and Their Role in  $H^p$  Theory, Model Spaces and Uniform Algebras, *Rev. Mat. Iberoam.*, **31** (2015), no. 3, 841–864.

104. Nicola Arcozzi, Richard Rochberg, Eric Sawyer and Brett D. Wick, Potential theory on trees, graphs and Ahlfors regular metric spaces, *Potential Anal.* **41** (2014), no. 2, 317–366.
105. Mishko Mitkovski and Brett D. Wick, The Essential Norm of Operators on  $A^p(\mathbb{D}^n)$ , *The Varied Landscape of Operator Theory*, Theta Foundation, Bucharest, Romania 2014, 165–211.
106. Dmitriy Bilyk, Laura De Carli, Alexander Petukhov, Alexander Stokolos and Brett D. Wick, On the scientific work of Konstantin Ilyich Oskolkov, *Recent Advances in Harmonic Analysis and Applications*, Springer Proc. Math. Stat. **75**, (2013) 3–21.
107. Amol Sasane, Jaydeb Sarkar and Brett D. Wick, Doubly Commuting Submodules of the Hardy Module over Polydiscs, *Studia Math.* **217** (2013), no. 2, 179–192.
108. Alexander Volberg and Brett D. Wick, Bergman-type Singular Integral Operators on Metric Spaces, *Recent Trends in Analysis: Proceedings of the Conference in honor of Nikolai Nikolski*, Theta Foundation, Bucharest, Romania 2013, 221–243.
109. Mrinal Ragupathi and Brett D. Wick, Some Remarks about Interpolating Sequences in Reproducing Kernel Hilbert Spaces, *Houston J. Math.*, **41** (2015), no. 1, 213–230.
110. Mishko Mitkovski, Daniel Suárez and Brett D. Wick, The Essential Norm of Operators on  $A^p_\alpha(\mathbb{B}_n)$ , *Integral Equations Operator Theory* **75** (2013), no. 2, 197–233.
111. Michael Lacey, Stefanie Petermichl, Jill Pipher and Brett D. Wick, Multi-Parameter Div-Curl Lemmas, *Bulletin London Math. Soc.* **44**, (2012), no. 6, 1123–1131.
112. Brett D. Wick, Corrigenda: “Stabilization in  $H^\infty_{\mathbb{R}}(\mathbb{D})$ ”, *Publ. Mat.* **55** (2011), no. 1, 251–260.
113. Nicola Arcozzi, Richard Rochberg, Eric Sawyer and Brett D. Wick, The Dirichlet Space: A Survey, *Proceedings of Recent Advances in Function Theoretic Operator Theory*, New York J. Math. **17a** (2011), 45–86.
114. Nicola Arcozzi, Richard Rochberg, Eric Sawyer and Brett D. Wick, Distance Functions for Reproducing Kernel Hilbert Spaces, *Proceedings of the Sixth Conference on Function Spaces*, Contemp. Math. **547**, Amer. Math. Soc., Providence, RI, 2011, 25–53.
115. Șerban Costea, Eric Sawyer and Brett D. Wick, The Corona Theorem for the Drury-Arveson Hardy space and other holomorphic Besov-Sobolev spaces on the unit ball in  $\mathbb{C}^n$ , *Anal. PDE* **4** (2011), no. 4, 499–550.
116. Nicola Arcozzi, Richard Rochberg, Eric Sawyer and Brett D. Wick, Function Spaces Related to the Dirichlet Space, *J. London Math. Soc. (2)* **83** (2011), no. 1, 1–18.
117. Alexander Volberg and Brett D. Wick, Bergman-type Singular Operators and the Characterization of Carleson Measures for Besov–Sobolev Spaces on the Complex Ball, *Amer. J. Math.* **134** (2012), no. 4, 949–992.
118. Raymond Mortini, Amol Sasane, Rudolph Rupp and Brett D. Wick, Topological Stable Rank of  $H^\infty(\Omega)$  for Circular Domains  $\Omega$ , *Anal. Math.* **36** (2010), no. 4, 287–297.
119. Mrinal Ragupathi and Brett D. Wick, Duality, Tangential Interpolation, and Töplitz Corona Problems, *Integral Equations Operator Theory* **68** (2010), no. 3, 337–355.

120. Șerban Costea, Eric Sawyer and Brett D. Wick, BMO Estimates for the  $H^\infty(\mathbb{B}_n)$  Corona Problem, *J. Funct. Anal.* **258** (2010), no. 11, 3818–3840.
121. Nicola Arcozzi, Richard Rochberg, Eric Sawyer and Brett D. Wick, Bilinear Forms on the Dirichlet Space, *Anal. PDE* **3** (2010), no. 1, 21–47.
122. Raymond Mortini and Brett D. Wick, Spectral Characteristics and Stable Ranks for the Sarason Algebra  $H^\infty + C$ , *Michigan Math. J.* **59** (2010), no. 2, 395–409.
123. Michael Lacey, Stefanie Petermichl, Jill Pipher and Brett D. Wick, Iterated Riesz Commutators: A Simple Proof of Boundedness, *Harmonic Analysis and Partial Differential Equations*, *Contemp. Math.* **505**, Amer. Math. Soc., Providence, RI, 2010, 171–178.
124. Stefanie Petermichl, Leonid Slavin and Brett D. Wick, New Estimates for the Beurling-Ahlfors Operator on Differential Forms, *J. Operator Theory* **65** (2011), no. 2, 307–324.
125. Dmitriy Bilyk, Michael Lacey, Xiaochun Li and Brett D. Wick, Composition of Haar Paraproducts: The Random Case, *Anal. Math.* **35** (2009), no. 1, 1–13.
126. Raymond Mortini and Brett D. Wick, Simultaneous Stabilization in  $A_{\mathbb{R}}(\mathbb{D})$ , *Studia Math.* **191** (2009), no. 3, 223–235.
127. Brett D. Wick, Stabilization in  $H_{\mathbb{R}}^\infty(\mathbb{D})$ , *Publ. Mat.* **54** (2010), no. 1, 25–52.
128. Tavan Trent and Brett D. Wick, Toeplitz Corona Theorems for the Polydisk and the Unit Ball, *Complex Anal. Oper. Theory* **3** (2009), no. 3, 729–738.
129. Raymond Mortini and Brett D. Wick, The Bass and Topological Stable Ranks of  $H_{\mathbb{R}}^\infty(\mathbb{D})$  and  $A_{\mathbb{R}}(\mathbb{D})$ , *J. Reine Angew. Math.* **636** (2009), 175–191.
130. Michael Lacey, Stefanie Petermichl, Jill Pipher and Brett D. Wick, Multi-Parameter Riesz Commutators, *Amer. J. Math.* **131** (2009), no. 3, 731–769.
131. Raymond Mortini, Amol Sasane and Brett D. Wick, The Corona Theorem and Stable Rank for  $\mathbb{C} + BH^\infty$ , *Houston J. Math.* **36** (2010), no. 1, 289–302.
132. Sergei Treil and Brett D. Wick, Analytic Projections, Corona Problem and Geometry of Holomorphic Vector Bundles, *J. Amer. Math. Soc.* **22** (2009), no. 1, 55–76.
133. Stefanie Petermichl, Sergei Treil and Brett D. Wick, Carleson Potentials and the Reproducing Kernel Thesis for Embedding Theorems, *Illinois J. of Math.* **51** (2007), no. 4, 1249–1263.
134. Stefanie Petermichl and Brett D. Wick, A Weighted Estimate for the Square Function on the Unit Ball of  $\mathbb{C}^n$ , *Ark. Mat.* **45** (2007), no. 2, 337–350.
135. Brett D. Wick, A Note About Stabilization in  $A_{\mathbb{R}}(\mathbb{D})$ , *Math. Nachr.* **282** (2009), no. 6, 912–916.
136. Michael Lacey, Erin Terwilleger and Brett D. Wick, Remarks on Product VMO, *Proc. Amer. Math. Soc.* **134** (2006), no. 2, 465–474.
137. Sergei Treil and Brett D. Wick, The Matrix-Valued  $H^p$  Corona Problem for the Disk and Polydisk, *J. Funct. Anal.* **226** (2005), no. 1, 138–172.

**Books Edited:**

1. Ron Douglas, Steve Krantz, Eric Sawyer, Sergei Treil and Brett D. Wick, *The Corona Problem: Connections Between Operator Theory, Function Theory and Geometry*, Fields Inst. Commun. **74** (2014).
2. Dmitriy Bilyk, Laura DeCarli, Alexander Petukhov, Alexander Stokolos and Brett D. Wick, *Recent Advances in Harmonic Analysis and Applications: In Honor of Konstantin Oskolkov*, Springer Proc. Math. Stat. **75** (2013).

**Books Written:**

1. Nicola Arcozzi, Richard Rochberg, Eric Sawyer and Brett D. Wick, *The Dirichlet Space and Related Function Spaces*, Mathematical Surveys and Monographs, **239**, American Mathematical Society (2019).

**Talks, Conferences, and Workshops:**

**Talks:**

**Colloquium Talks:**

- University of North Carolina, Spring 2025.
- University of Missouri, Spring 2023.
- University of New Mexico, Spring 2023.
- Indian Institute of Science Education and Research Kolkata, India, Fall 2021.
- Duke Kunshan University, Fall 2021.
- University of Wisconsin, Madison, Spring 2020.
- Macquarie University, Summer 2016.
- University of Hawaii, Spring 2016.
- Baylor University, Spring 2013, Fall 2015.
- Washington University, St. Louis, Spring 2012, Fall 2014.
- Universität des Saarlandes, Spring 2014.
- Bucknell University (2 talks), Fall 2009, Fall 2010, Spring 2014.
- University of Waterloo, Spring 2014.
- University at Albany, State University of New York, Fall 2013.
- University of Alabama - Birmingham, Spring 2013.
- University of Wisconsin - Milwaukee, Fall 2012.
- University of Rochester, Fall 2012.

Fields Institute 20th Anniversary “Back to Fields Colloquium”, Summer 2012.

United States Naval Academy, Spring 2012.

Trinity University, Spring 2012.

University of Cincinnati, Spring 2012.

University of Alabama, Fall 2011.

University of Houston, Spring 2009.

Texas A&M University, Spring 2007, Spring 2009.

University of South Florida, Spring 2009.

Georgia Institute of Technology, Spring 2009.

University of Tennessee – Knoxville, Spring 2007.

University of South Carolina, Spring 2007.

University of Alabama – Tuscaloosa, Spring 2007.

**Seminar Talks:**

Brown University Analysis Seminar, Spring 2004, Fall 2004, Spring 2005, Fall 2008, Fall 2011, Fall 2012, Fall 2014, Fall 2025.

Analysis Seminar, Tufts University, Spring 2025.

Aix-Marseille Université, Institut de Mathématiques de Marseille, Spring 2024.

Université Paul Sabatier, Institut de Mathématiques de Toulouse, Spring 2024.

Analysis and Geometry Seminar, Ohio State University, Spring 2023.

Analysis and Geometry Seminar, Chapman University, Spring 2022.

Corona Seminar: Inequalities on Function Spaces of Smooth Functions, Fall 2021.

Probability and Analysis Webinar, Fall 2021.

Virtual East-West Complex Analysis Seminar, Spring 2021.

Leibniz Universität, Hanover, Spring 2010, Spring 2014, Summer 2016, Fall 2020.

Okinawa Institute of Science and Technology, Fall 2020.

Kent State University Analysis Seminar, Fall 2020.

Clemson University Analysis Seminar, Spring 2013, Spring 2015, Fall 2020.

Macquarie University, Spring 2020.

Washington University, St. Louis, Analysis Seminar, Spring 2019.

Université de Grenoble Alpes, Spring 2018.

Université d'Orsay – Paris Sud, Spring 2009, Spring 2017.

Université Pierre-et-Marie-Curie – University of Paris 6, Spring 2009, Spring 2017.

Université de Nantes, Analysis Seminar, Spring 2017.

Université de Bordeaux, Analysis Seminar, Summer 2015, Fall 2015, Fall 2016.

University of Hawaii Analysis Seminar, Spring 2016.

Universitat de Barcelona, Departamento de Análisis Matemático, Spring 2016.

Georgia Institute of Technology Analysis Seminar, Fall 2004, Fall 2005, Fall 2006, Fall 2008, Spring 2010, Spring 2012, Spring 2016.

Washington University - St. Louis Graduate Seminar, Fall 2015.

Johns Hopkins University Analysis Seminar, Fall 2014.

Brown University Analysis Seminar, Spring 2004, Fall 2004, Spring 2005, Fall 2008, Fall 2011, Fall 2012, Fall 2014.

Southwestern University of Finance and Economics, School of Economic Mathematics, Summer 2014.

Georgia Institute of Technology Research Horizons Seminar, Fall 2009, Spring 2011, Fall 2012, Spring 2014.

Instituto Argentino de Matemática, University of Buenos Aires, Fall 2013.

Fudan University Analysis Seminar, Summer 2013.

Beijing Normal University Analysis Seminar, Summer 2013.

University of Cincinnati, Spring 2012.

Georgia Institute of Technology Undergraduate Seminar, Fall 2010, Fall 2011.

Washington University - St. Louis Analysis Seminar, Fall 2011.

Kansas State University Analysis Seminar, Fall 2011.

Kennesaw State University Analysis Seminar, Fall 2010.

Norwegian University of Science and Technology, Department of Mathematical Sciences, Trondheim, Norway, Spring 2010.

Universidad de Sevilla, Departamento de Análisis Matemático, Spring 2010.

Université Paul Sabatier, Institut de Mathématiques de Toulouse, Spring 2010.

University of Edinburgh, Spring 2010.

Universität Paderborn, Spring 2010.

Università di Trento, Spring 2009.

Université d'Orléans, Spring 2009.

University of South Carolina, Fall 2008, Spring 2009.

Université Paul Verlaine – Metz, Department of Mathematics Analysis Seminar, Fall 2007, Spring 2009.

Michigan State University, Department of Mathematics Analysis Seminar, Spring 2008, Fall 2008, Spring 2009.

University of Missouri Analysis Seminar, Fall 2008.

University of Houston Analysis Seminar, Fall 2006, Fall 2008.

Texas A&M University Analysis Seminar, Fall 2008.

Cornell University Analysis Seminar, Fall 2005, Spring 2008.

Fields Institute Harmonic Analysis Seminar, Spring 2008.

University of Jyväskylä, Department of Mathematics Analysis Seminar, Fall 2007.

University of Helsinki, Department of Mathematics Analysis Seminar, Fall 2007.

London School of Economics, Department of Mathematics CDAM Seminar, Fall 2007.

The Royal Institute of Technology (KTH), Department of Mathematics Analysis Seminar, Fall 2007.

Vanderbilt University, Fall 2005, Spring 2007.

University of Tennessee – Knoxville Analysis Seminar, Fall 2005.

### **Conference and Workshop Talks:**

Plenary Speaker, 15th Ohio River Analysis Meeting (ORAM 15), University of Kentucky, March 21-22, 2026.

American Mathematical Society Fall Eastern Virtual Sectional Meeting, Special Session on Current Developments in Harmonic Analysis, October 25-26 2025.

Plenary Speaker, Recent Advances in Operator Theory and its Applications, Politecnico di Milano, Italy, June 3-6, 2025.

Plenary Speaker, Advances in Operator Theory with Applications to Mathematical Physics, Chapman University, November 18-22, 2024.

Plenary Speaker, 2024 Fall Fourier Talks, University of Maryland, October 24-25, 2024.

Plenary Speaker, European Satellite Conference in Harmonic Analysis, University of Malaga, Malaga Spain, July 12-16, 2024.

Plenary Speaker, Harmonic Analysis and Differential Equations - In Honour of Professor Jill Pipher, Macquarie University, June 23-29, 2024.

Plenary Speaker, Shapes and Shades of Analysis: in depth and beyond, Centre International de Rencontres Mathématiques, Marseille, France April 29 - May 3, 2024.

Plenary Speaker, Workshop in Analysis, Georgia Institute of Technology, December 8-10, 2023.

Plenary Speaker, Conference in Honor of The 70th Birthday of David Bekolle, December 4-8, 2023 (online participation; two talks).

Plenary Speaker, Midwest Asymptotic Analysis Seminar, Indiana University Purdue University of Indianapolis, October 13-15, 2023.

Plenary Speaker, IWOTA 2023, University of Helsinki, Helsinki, Finland, July 31-August 4, 2023.

Plenary Speaker, GPOTS 2023, Ohio State University, Columbus, Ohio, May 15-19 2023.

Plenary Speaker, MATRIX-RIMS Tandem Workshop: Geometric Analysis in Harmonic Analysis and PDE, MATRIX, Melbourne, Australia, March 27-31 2023.

Plenary Speaker, Conference on Fractional Integrals and related phenomena in Analysis, National Center for Theoretical Sciences, Taiwan/Online, December 19-23, 2022.

Plenary Speaker, Harmonic Analysis and Related Topics, Centre de Recerca Matemàtica, Barcelona, Spain, June 13-17 2022.

Plenary Speaker, Operators, Functions, Systems: Classical and Modern, Bedlewo, Poland, June 12 - June 18 2022 (cancelled participation for another conference).

Plenary Speaker, 2022 Workshop on Operator Theory with an Eye on Linear Systems and Hypercomplex Analysis, May 28 - June 4 2022, Chapman University.

Plenary Speaker, Workshop on Classical Analysis and Applications V, Cameroon/Online, December 6-11, 2021.

Plenary Speaker, The Corona Problem, The Fields Institute, Toronto, Canada, November 8-12, 2021.

Plenary Speaker, Analysis and Control, Bordeaux 2020, University of Bordeaux, Bordeaux, France, July 6-8, 2021.

Plenary Speaker, 2021 Indam Workshop on Bergman Projections and Related Topics, June 3-6, 2021.

Plenary Speaker, Fifth Operator Theory Workshop, University of Reading, Reading, United Kingdom, October 21-23 2020.

Plenary Speaker, Harmonic Analysis and Dispersive PDEs: Problems and Progress, MATRIX Institute, University of Melbourne, Melbourne, Australia, February 3-7 2020.

Plenary Speaker, MW-SCV-19: Midwest Several Complex Variables Conference, University of Michigan - Dearborn, October 11-13, 2019.

Plenary Speaker, Analysis Mathematica International Conference, Budapest, Hungary, August 12-17 2019.

Plenary Speaker, Summer Symposium in Real Analysis XLIII, Trinity University, June 24-29 2019.

American Mathematical Society Spring Sectional Meeting, Special Session on Spaces of Holomorphic Functions and Their Operators, University of Hawaii at Manoa, March 22-24 2019.

Plenary Speaker, Southeastern Analysis Meeting (SEAM) XXXIV, Georgia Institute of Technology, March 23-25 2018.

Plenary Speaker, Finnish Mathematical Days, University of Eastern Finland, Joensuu, Finland, January 4-5, 2018.

Plenary Speaker, Journées de GDR d'Analyse, University of Bordeaux, Bordeaux, France, October 9-11, 2017.

Plenary Speaker, The AMSI/AustMS 2017 Workshop in Harmonic Analysis and its Applications, Macquarie University, Sydney, Australia, July 17-21, 2017.

Plenary Speaker, XIV Advanced Course in Operator Theory and Complex Analysis, Instituto de Ciencias Matemáticas, Madrid, Spain, June 19-22, 2017.

Recent Trends in Harmonic and Complex Analysis, University of Orléans, Orléans, France, April 3-5, 2017.

Harmonic Analysis/PDEs Workshop, University of Birmingham, Birmingham, United Kingdom, March 14, 2017.

American Mathematical Society Joint Mathematics Meeting 2017, Special Session on Operator theory, function theory, and models, Atlanta, GA, January 4-7 2017.

Plenary Speaker, Northeastern Analysis Meeting, SUNY Brockport, Brockport, New York, October 14-16, 2016.

Plenary Speaker, Summer Informal Regional Functional Analysis Seminar (SUMIRFAS), Texas A&M University, College Station, Texas, July 29-31, 2016.

Probabilistic Harmonic Analysis and Spectral Theory, Institut Mittag-Leffler, Stockholm, Sweden, July 11- 15 2016.

Workshop on Operator Theory and Complex Analysis 2016, Coimbra, Portugal, June 21-24, 2016.

Singular Integrals and Partial Differential Equations, University of Helsinki, Helsinki, Finland, May 24-27 2016.

Virginia Operator Theory and Complex Analysis Meeting (VOTCAM), November 7 2015.

Completeness Problems, Carleson Measures, and Spaces of Analytic Functions, Institut Mittag-Leffler, Stockholm, Sweden, June 29-July 3 2015.

Mini-Course Instructor, Spring School of the French GDR Network Harmonic and Functional Analysis, Probability and Applications, June 4-6 2015.

Plenary Speaker, Conference on Harmonic Analysis, Operator Theory and Applications, Université de Bordeaux, Bordeaux, France, June 1-4 2015.

Multivariate Operator Theory, Banff International Research Station, Banff, Alberta, Canada, April 5-10 2015.

Plenary Speaker, Southeastern Analysis Meeting (SEAM) XXXI, University of Georgia, March 8-9 2015.

Function Spaces and Harmonic Analysis, Centre International de Rencontres Mathematiques, Marseille, France, October 27-31 2014.

AMSI/AustMS 2014 Workshop in Harmonic Analysis and its Applications, Macquarie University, Sydney, Australia, July 21-25 2014.

Plenary Speaker, International Analysis Conference, Chongqing University, Chongqing, China, June 26-29 2014.

Mini-Course Instructor, Summer School in Analysis, Chongqing University, Chongqing, China, June 23-25 2014.

Mini-Course Instructor, Summer School in Complex and Harmonic Analysis and Related Topics, University of Eastern Finland, Mekrijärvi, Finland, June 14-18 2014.

Plenary Speaker, Conference in Honor of Aline Bonami, Orléans, France, June 10-13 2014.

The Seventh Conference on Function Spaces, Southern Illinois University - Edwardsville, May 20-24 2014.

Hilbert Modules and Complex Geometry, Oberwolfach, April 20-26 2014.

American Mathematical Society Spring Sectional Meeting, Special Session on Harmonic Analysis and Operator Theory, University of New Mexico, April 5-6 2014.

American Mathematical Society Fall Sectional Meeting, Special Session on Operator Theory, Washington University St. Louis, October 18-20 2013.

Plenary Speaker, Invariant Subspaces of the Shift Operator, Centre de Recherches Mathématiques, Montreal, Canada, August 26-30 2013.

Plenary Speaker, Banach Algebras 2013, Gothenburg, Sweden, July 29 - August 4 2013.

Atlantic Association for Research in the Mathematical Sciences Workshop on Analytic Spaces and Their Operators, St. John's, Newfoundland and Labrador, Canada, July 9-12 2013.

Joint International Meeting of the AMS and the Romanian Mathematical Society, Special Session on Operator Theory and Function Spaces, June 27-30 2013.

Plenary Speaker, Chongqing Analysis Meeting IV, University of Chongqing, Chongqing, China, June 1 2013.

Plenary Speaker, Hilbert Function Spaces, Gargnano sul Garda, Italy, May 20 - May 24 2013.

Georgia Analysis Symposium, University of Georgia, March 1-2 2013.

Plenary Speaker, Recent Advances in Operator Theory and Operator Algebras, Bangalore, India, December 31 2012 - January 12 2013.

American Mathematical Society Fall Sectional Meeting, Special Session on Complex Analysis and its Broader Impacts, University of Akron, October 20-21 2012.

Mini-Course Instructor, Recent Advances in Harmonic Analysis and Spectral Theory, Texas A&M University, August 6-10 2012.

Plenary Speaker, 24th International Conference on Operator Theory, Timisoara, Romania, July 2-7 2012.

Plenary Speaker, The Corona Problem: Connections between Operator Theory, Function Theory and Geometry, Fields Institute, June 18-22 2012.

Plenary Speaker, Great Plains Operator Theory Symposium, University of Houston, May 29 - June 3 2012.

Plenary Speaker, Frames and Bases of Analytic Functions, Toulouse, France, May 23-25 2012.

Operator Related Function Theory, Erwin Schrödinger Institute, Vienna, Austria, March 26-31 2012.

American Mathematical Society Spring Sectional Meeting, Special Session on Holomorphic Spaces, University of Hawaii, March 3-4 2012.

American Mathematical Society Joint Mathematics Meeting 2012, Special Session on Several Complex Variables and Multivariable Operator Theory, Boston, MA, January 4-7 2012.

American Mathematical Society Fall Sectional Meeting, Special Session on Multivariable Operator Theory, Cornell University, September 10-11 2011.

Approximation Theory and Harmonic Analysis Workshop, Kennesaw State University, May 14-15 2011.

Second Buea International Conference on the Mathematical Sciences, Buea, Cameroon May 8-13 2011.

Plenary Speaker, Southeastern Analysis Meeting (SEAM) XXVII, University of Florida, March 17-19 2011.

Invited Address, American Mathematical Society Southeast Sectional Meeting, Georgia Southern University, March 12-13 2011.

Waves and Spectra, Texas A&M University, January 11-14 2011.

Wellposedness and Controllability of Evolution Equations, Oberwolfach, December 12-18 2010.

Operator Theory and Harmonic Analysis, Oberwolfach Conference, October 31 - November 6 2010.

American Mathematical Society Fall Sectional Meeting, Special Session on Harmonic Analysis, Syracuse University, October 2-3 2010.

Multivariate Operator Theory, Banff International Research Station, August 15-20 2010.

Harmonic Analysis: A Retrospective Workshop, Fields Institute, May 31 - June 4 2010.

Plenary Speaker, UK Harmonic Analysis and PDE Research Network, Glasgow, February 23 2010.

Auburn Conference on Harmonic Analysis and Related Topics, December 3-5 2009.

Workshop on Operator Theory and Applications, International Centre of Mathematical Sciences, Edinburgh, September 7-11 2009.

Seminar for the Research Programme: Harmonic Analysis, Geometric Measure Theory and Quasiconformal Mappings, May 10-25 2009.

Hilbert Modules and Complex Geometry, Oberwolfach Conference, April 6-10 2009.

Auburn Conference on Harmonic Analysis and Related Topics, November 20-22 2008.

St. Petersburg Summer Meeting in Mathematical Analysis, June 23 -27 2008.

Seminar at the Workshop in Analysis and Probability, Texas A&M University, Summer 2005, Summer 2006, Summer 2008.

American Mathematical Society Spring Sectional Meeting, Special Session on Harmonic Analysis, University of Indiana – Bloomington, April 5-6 2008.

Southeastern Analysis Meeting (SEAM) XXIII, University of Richmond, March 9-11 2007.

Prairie Analysis Seminar, October 13-14 2006.

Plenary Speaker, Southeastern Analysis Meeting (SEAM) XXII, University of Florida, March 2-5 2006.

International Workshop on Operator Theory and its Applications (IWOTA), Newcastle England, July 12-16 2004.

### **Conference and Workshop Participation:**

Fractals 8, Cornell University, June 16-20, 2025.

Analytic Function Spaces, Their Operators and Applications, Centre International de Rencontres Mathématiques, December 2-6, 2024.

Superoscillations - Theoretical Aspects and Applications Symposium III, Grand Hotel San Michele in Cetraro (CS), Italy, June 12-16, 2024.

Les journées du GdR AFHP 2023 - Porquerolles, France October 24-27, 2023.

Real Analysis and Geometry, Centre International de Rencontres Mathématiques, Marseille, France, June 12-16, 2023.

Southeastern Analysis Meeting (SEAM) XXXIX, Clemson University, March 9-11 2023.

Superoscillations - Theoretical Aspects and Applications Symposium II, Grand Hotel San Michele in Cetraro (CS), Italy, June 25-26 2022.

Great Plains Operator Theory Symposium, Washington University in Saint Louis, May 10-14 2021 (virtual) and May 23-27 2022 (in person).

International Workshop on Operator Theory and its Applications (IWOTA), Washington University - St. Louis, July 18-22, 2016.

Southeastern Analysis Meeting (SEAM) XXX, Clemson University, March 7-8 2014.

Southeastern Analysis Meeting (SEAM) XXIX, Virginia Tech, March 15-16 2013.

Weighted Inequalities for Singular Integral Operators, American Institute of Mathematics, October 10-14 2011.

Southeastern Analysis Meeting (SEAM) XXVI, Georgia Institute of Technology, March 2010.

Centro Internazionale per la Ricerca Matematica Research in Pairs: Bilinear Forms on Spaces of Analytic Functions, Trento, Italy, June 14-28 2009.

Harmonic Analysis, Geometric Measure Theory and Quasiconformal Mappings, May 10-25 2009.

Oberwolfach, Research in Pairs: Logarithmic Mean Oscillation and Hankel Operators, March 23 - April 4 2009.

Small Ball Inequalities in Analysis, Probability, and Irregularities of Distribution, American Institute of Mathematics, December 7-13 2008.

Workshop in Analysis and Probability, Texas A & M University, Summer 2005, Summer 2006, Summer 2008.

Function Spaces and Their Operators, A Conference in Honor of Richard Rochberg, Washington University – St. Louis, May 28-31 2008.

Southeastern Analysis Meeting (SEAM) XXIV, Vanderbilt University, March 5-9 2008.

Thematic Program on New Trends in Harmonic Analysis, Fields Institute, January – June 2008.

Potential Theory and its Applications, A Conference in Honor of Björn Gustafsson, The Royal Institute of Technology (KTH), October 17 2007.

The Kadison-Singer Problem, American Institute in Mathematics, September 25-29 2006.

Shanks Workshop: Composition of Haar Paraproducts, Vanderbilt University, May 20-21 2006.

BANFF-PIMS, Research in Teams: Multi-Parameter Nehari Theorems, March 20-24 2006.

Workshop on Multi-Scale Geometry and Analysis in High Dimensions, Institute for Pure and Applied Mathematics, UCLA, November 8-12 2004.

Summer School on Hamiltonian Mechanics and Integrable Systems, UCLA/Cal Tech, September 12-17 2004.

NSF/CBMS Regional Conference in Mathematical Sciences: Wave packets, Multi-linear Operators and Carleson Theorems, Georgia Tech, May 23-28 2004.

Park City Mathematics Institute Summer School on Harmonic Analysis and Partial Differential Equations, Park City, Utah, June 29 - July 19 2003.

Spring School on Analysis in Paseky, Czech Republic, June 1-7 2003.

### Conferences and Workshops Organized:

Geometric Harmonic Analysis in the discrete and continuous settings, BIRS IMAG, Granada, July 7-12, 2026.

Special Session: Harmonic Analysis and Partial Differential Equations, American Mathematical Society Southeast Sectional Meeting, Saint Louis University, October 18-19 2025.

Expanding Pathways in Harmonic Analysis, Washington University in Saint Louis, April 4-7, 2025.

Harmonic Analysis and Differential Equations - In Honour of Professor Jill Pipher, Macquarie University, June 23-29, 2024.

TV: A Conference in Honor of Alexander Volberg and Sergei Treil, University of Wuerzburg, June 5-9, 2023.

Several Complex Variables: A Conference in Honor of Steve Krantz, Washington University in Saint Louis, May 22-23, 2023.

Guido Weiss Memorial Conference On Harmonic Analysis, Washington University in Saint Louis, October 8-9, 2022.

GPOTS 2020, Washington University in Saint Louis, May 10-14 2021, May 23-27 2022.

Interpolation in Spaces of Analytic Functions, Centre International de Rencontres Mathématiques, Marseille, France, November 18-22 2019.

Special Session: Harmonic Analysis and Applications, American Mathematical Society Southeast Sectional Meeting, University of Georgia, March 5-6 2016.

NSF/CBMS Regional Conference in the Mathematical Sciences: Uncertainty Principles in Harmonic Analysis: Gap and Type Problems, June 17-22 2013.

The Corona Problem: Connections between Operator Theory, Function Theory and Geometry, Fields Institute, June 18-22 2012.

MSRI Summer Graduate Workshop “The Dirichlet Space: Connections between Operator Theory, Function Theory, and Complex Analysis”, June 20 - July 1 2011.

Centre International de Mathématiques Pures et Appliquées (CIMPA School): “Real and Complex Analysis with Applications to other Sciences”, Buea (Cameroon), May 1-14 2011.

Special Session: Harmonic Analysis and Applications, American Mathematical Society Southeast Sectional Meeting, Georgia Southern University, March 12-13 2011.

Southeastern Analysis Meeting (SEAM) XXVI, Georgia Institute of Technology, March 25-28 2010.

Southeastern Analysis Meeting (SEAM) XXIV, Vanderbilt University, March 5-9 2008.

## Research Programs:

Hausdorff Institute for Mathematics Research in Groups: Borderline Problems with Singular Integrals, May 17 - June 12 2015 and May 22 - June 17 2016.

Banff-PIMS, Research in Teams: Sarason Conjecture and the Composition of Paraproducts, November 4-11 2012.

Centro Internazionale per la Ricerca Matematica Research in Pairs: Bilinear Forms on Spaces of Analytic Functions, Trento, Italy, June 14-28 2009.

Oberwolfach, Research in Pairs: Logarithmic Mean Oscillation and Hankel Operators, March 23 - April 4 2009.

Shanks Workshop: Composition of Haar Paraproducts, Vanderbilt University, May 20-21 2006.

Banff-PIMS, Research in Teams: Multi-Parameter Nehari Theorems, March 20-24 2006.

## Professional Service:

### Scholarly Service:

### Referee and Review Service:

Member of the NSF Division of Mathematical Sciences Panel (3).

Member of the NSF Division of Mathematical Sciences CAREER Panel (2).

Member of the NSF Division of Mathematical Sciences Postdoctoral Research Fellowship Panel.

Reviewer for Israel Science Foundation Grant Proposals (2).

Reviewer for The Royal Society of New Zealand Marsden Fund Grant Proposals.

Reviewer for Natural Sciences and Engineering Research Council of Canada (NSERC) Proposals (5).

Reviewer for National Science Centre of Poland (8).

Reviewer for The Czech Science Foundation.

Reviewer for The Croatian Science Foundation (2).

Reviewer for Republic of Georgia's Shota Rustaveli National Science Foundation.

Reviewer for Austrian Science Foundation.

Deutsche Forschungsgemeinschaft (German Research Foundation).

Reviewer for NSF Grant Proposals (3).

Reviewer for European Research Council.

External Reviewer for PhD Theses: University of Aalto, University of Helsinki, University of Toulouse, University of Barcelona, University of Manitoba, Georgia Institute of Technology.

Reviewer for the Bulletin of the American Mathematical Society

Reviewer for Math Reviews (98).

Reviewer for Zentralblatt Math (88).

Referee for: Acta. Math. (2), Acta Math. Sci. Ser. B Engl. Ed., Adv. Math. (9), Adv. Pure Appl. Math., Amer. J. Math. (2), Amer. Math. Monthly (2), Anal. Math. (2), Anal. Math. Phys., Anal PDE, Ann. Acad. Sci. Fenn. Math., Ann. Inst. Fourier (4), Ann. Math. Phys., Ann. Mat. Pura Appl., Ann. Sc. Norm. Super. Pisa Cl. Sci. (2), Appl. Comput. Harmon. Anal., Ark. Math., Bull. Korean Math. Soc., Bull. Sci. Math. (2), Canad. J. Math. (7), Canad. Math. Bull. (2), Collect. Math. (3), Commun. Contemp. Math., Commun. Pure Appl. Anal., Complex Anal. Oper. Theory (9), Complex Var. Elliptic Equ. (2), Comput. Methods Funct. Theory, Concr. Oper., CRM Monograph Series, Demonstr. Math., Discrete Anal., Discrete Contin. Dyn. Syst. Ser. B, Duke Math. J., European J. Math., Forum Math. (2), Glasg. Math. J. (2), Houston J. Math. (2), Illinois J. of Math. (2), Indiana Math. J. (3), Integral Equations Operator Theory (7), Int. Math. Res. Not. (5), Inventiones, Israel J. Math. (4), J. Amer. Math. Soc., J. Aust. Math. Soc., J. Anal. Math. (3), J. Differential Equations, J. Eur. Math. Soc. (2), J. Fourier Anal. Appl. (4), J. Franklin Inst., J. Funct. Anal. (25), J. Funct. Spaces Appl., J. Geo. Anal. (8), J. London Math. Soc. (6), J. Math. Anal. Appl. (4), J. Math. Soc. Japan, J. Reine Angew. Math. (2), Math. Control Signals Systems, Math. Nachr. (4), Math. Res. Lett., Mem. Amer. Math. Soc. (3), Michigan Math. J., Monatsh. Math., Nonlinear Anal. (2), Oper. Matrices, Pacific J. Math. (2), Potential Anal. (5), Proc. Amer. Math. Soc. (16), Proc. Edinb. Math. Soc. (2), Proc. Roy. Soc. Edinburgh Sect. A (3), Pub. Mat. (6), Rev. R. Acad. Cienc. Exactas Fís. Nat. Ser. A Mat. RACSAM, Rev. Mat. Complut., Rev. Mat. Iberoam. (8), Selecta Math., Studia Math. (6), Trans. Amer. Math. Soc. (9), Misc. Conference Proceedings (5).

### Editorial Service:

Editor for [Journal of Geometric Analysis](#), Spring 2025 – Present.

Editor for [Integral Equations and Operator Theory](#), Spring 2023 – Present.

Editor for [Complex Analysis and Operator Theory](#), Spring 2022 – Present.

Editor for [Bulletin and Journal of the London Mathematics Society](#), Spring 2022 – Present.

Analysis Section Editor for [Bulletin and Journal of the London Mathematics Society](#), Spring 2026 – Present.

Editor for [Collectanea Mathematica](#), Spring 2020 – Present.

Editor for [Journal of Mathematical Analysis and its Applications](#), Fall 2019 – Present.

Editor for [Analysis Mathematica](#), Spring 2017 – Present.

Editor for [New York Journal of Mathematics](#), Spring 2015 – Present.

Associate Editor for [Complex Analysis and its Synergies](#), Spring 2013 – Present.

Editor for **IMHOTEP: African Journal of Pure and Applied Mathematics**, Spring 2012 – Present.

## **Departmental Service:**

### **Washington University – St. Louis:**

Chair of Department of Mathematics Hiring Committee, Fall 2018 - Spring 2019, Fall 2019 - Spring 2020, Fall 2022 - Spring 2023 (Co-Chair).

Department of Mathematics Thesis Committee: Meredith Sargent (Spring 2018), Mark Mancuso (Spring 2020), Alberto Dayan (Spring 2021), Chris Felder (Spring 2022), Jeet Sampat (Spring 2022).

Department of Mathematics Graduate Committee, Fall 2015 - Spring 2016, Fall 2017 - Spring 2022.

Department of Mathematics Executive Committee, Fall 2016 - Spring 2022, Fall 2024-Spring 2025.

Department of Mathematics Hiring Committee, Fall 2016 - Spring 2017, Fall 2018 - Spring 2019, Fall 2019 - Spring 2020.

Department of Mathematics Building Committee, Fall 2021.

Department of Mathematics Data Science Committee, Fall 2022.

Department of Mathematics Graduate Student Fellowship Mentor, Fall 2024 - Spring 2025.

### **Georgia Institute of Technology:**

School of Mathematics Postdoc Committee, Fall 2013 - Spring 2015.

School of Mathematics Junior P&T Committee, Fall 2013 - Spring 2015.

School of Mathematics Graduate Committee, Spring 2012 - Spring 2014.

School of Mathematics Colloquium Committee, Fall 2011 - Spring 2012.

School of Mathematics Thesis Committee: Gagik Amirkhanyan (Spring 2014), Maria Reguera-Rodriguez (Spring 2011).

Organizer of Analysis Seminar, Fall 2009, Fall 2010 - Spring 2015.

School of Mathematics Oral Exam Committee: Gagik Amirkhanyan (Summer 2013), Chris Pryby (Fall 2012), Maria Reguera-Rodriguez (Fall 2010).

## **University Service:**

### **Washington University – St. Louis:**

Search Committee for Inaugural Chair of Department of Statistics and Data Science, Fall 2022 - Spring 2023.

Dean's Advisory Committee, College of Arts & Sciences, Fall 2022 - Spring 2024.

University Working Group for Graduate and Professional Education, Spring 2021 - Fall 2021.

College of Arts & Sciences Co-Leader of Working Group for Graduate and Professional Education, Spring 2021 - Fall 2021.

Graduate School of Arts & Science, Policies and Services Committee, Fall 2019 - Spring 2020, Fall 2020 - Spring 2021.

Graduate School of Arts & Science, Graduate Education Task Force, Spring 2019.

Graduate School of Arts & Science, Chancellor Fellowship Selection Committee, Spring 2019, Spring 2020, Spring 2021, Spring 2022.

NSF - Graduate Research Fellowship Mentor, Mathematics and Physics Fall 2018.

Graduate School of Arts & Science, Teaching and Professional Development Committee Fall 2017 - Spring 2018.

## **Mentoring Activities:**

### **Postdoctoral Fellows Mentored:**

**Brandon Sweeting**, Washington University – St. Louis, Fall 2024 – Present.  
National Science Foundation Mathematical and Physical Sciences ASCEND Postdoctoral Research Fellowship 2024-2026.

**Walton Green**, Washington University – St. Louis, Fall 2020 – Spring 2025.  
National Science Foundation Mathematical Sciences Postdoctoral Research Fellow 2022-2025  
First Employment: Illinois State University

**Rosemarie (Tyler) Bongers** Washington University – St. Louis, Fall 2018 – Spring 2020.  
First Employment: Harvard University, Lecturer  
Present Employment: University of California - Merced

**Michael Hartz**, Washington University – St. Louis, Fall 2016 – Spring 2018.  
Alexander von Humboldt Foundation Feodor Lynen Research Fellow  
First Employment: FernUniversität in Hagen  
Present Employment: Saarlandes Universität

**Zhenghui Huo**, Washington University – St. Louis, Fall 2016– Spring 2018.  
First Employment: University of Toledo  
Present Employment: Duke Kunshan University

**Irina Holmes**, Washington University – St. Louis, Fall 2014 – Spring 2017.  
National Science Foundation Mathematical Sciences Postdoctoral Research Fellow 2016-2017  
First Employment: Texas A&M University  
Present Employment: Texas A&M University

**Kelly Bickel**, Georgia Institute of Technology, Fall 2013 – Spring 2014.  
First Employment: Bucknell University  
Present Employment: Bucknell University

**Mishko Mitkovski**, Georgia Institute of Technology, Fall 2010 – Spring 2012.

First Employment: Clemson University

Present Employment: Clemson University

Svetlana Poznanovik, Georgia Institute of Technology, Fall 2011 – Spring 2012 (teaching).

David Murrugarra, Georgia Institute of Technology, Fall 2012 – Spring 2014 (teaching).

## PhD Students Advised:

**Troy Roberts**, Washington University – St. Louis, Fall 2025 – Present.

**Francesco D’Emilio**, Washington University – St. Louis, Fall 2023 – Present.

**Ljupcho Petrov**, Washington University – St. Louis, Spring 2023 – Present.

**Ana Colovic**, Washington University – St. Louis, Spring 2022 – Spring 2025.

**Thesis Title:** Two Problems: Hankel Operators and Dyadic Paraproducts

First Position: Postdoctoral Fellow University of Missouri

Best PhD Thesis in the Department of Mathematics Academic Year 2024– 2025

**Jeremy Cummings**, Washington University – St. Louis, Fall 2021 – Summer 2025.

**Thesis Title:** Wavelet Representation of Singular Integral Operators

First Position: Instructor of Mathematics at University of South Carolina

**Anastasios Fragkos**, Washington University – St. Louis, Spring 2022 – Summer 2024.

**Thesis Title:** Some problems in Harmonic Analysis

First Position: Postdoctoral Fellow at Georgia Institute of Technology

**Weiyan (Claire) Huang**, Washington University – St. Louis, Fall 2019 – Summer 2023.

**Thesis Title:** Haar Multipliers in the Context of Weighted Spaces and Bilinear Operators

First Position: Seeking Employment in Industry

**Nathan Wagner**, Washington University – St. Louis, Fall 2018 – Spring 2022.

**Thesis Title:** Weighted Estimates for the Bergman and Szegő Projections

NSF Graduate Research Fellow 2019-2022

NSF Postdoctoral Research Fellowship 2022-2025

Best PhD Thesis in the Department of Mathematics Academic Year 2021– 2022

First Position: Tamarkin Assistant Professor, Brown University

Present Position: George Mason University

**Tyler Williams**, Washington University – St. Louis, Fall 2018 – Fall 2021.

**Thesis Title:** A Continuous Wavelet Representation for Single and Bi-Parameter Calderón-Zygmund Operators

First Position: Regions Bank, Birmingham, Alabama

Present Position: Same

**Manasa Vempati**, Washington University – St. Louis, Fall 2017 – Spring 2021.

**Thesis Title:** Two Weight Inequalities for Calderón-Zygmund Operators and Commutator Operators and Sparse Domination Principles on Spaces of Homogeneous Type

Best PhD Thesis in the Department of Mathematics Academic Year 2020 – 2021

First Position: Postdoctoral Fellow at Georgia Institute of Technology

Present Position: Louisiana State University

**Cody Stockdale**, Washington University – St. Louis, Fall 2016 – Spring 2020.

**Thesis Title:** A Different Approach to Endpoint Weak-type Estimates for Calderón-Zygmund Operators

First Position: Postdoctoral Fellow at Clemson University

Present Position: Clemson University

**Marie-Jose Kuffner**, Washington University – St. Louis, Spring 2016 – Spring 2019.

**Thesis Title:** Commutators and Weak Factorization

First Position: Postdoctoral Fellow at Johns Hopkins University

Present Position: U.S. Federal Reserve - Saint Louis

**Darío Mena Arias**, Georgia Institute of Technology, Fall 2014 – Spring 2018.

**Thesis Title:** Characterization of BMO by Commutators and Sparse Domination of Operators

First Position: University of Costa Rica

Present Position: Same

**Ishwari Kunwar**, Georgia Institute of Technology, Fall 2014 – Summer 2017.

**Thesis Title:** Multilinear Dyadic Operators and Their Commutators

First Position: Fort Valley State University

Present Position: Same

**Philip Benge**, Washington University – St. Louis, Fall 2013 – Spring 2017.

**Thesis Title:** Paraproducts and Well Localized Operators

First Position: Mississippi School for Mathematics and Science

Present Position:

**Robert Rahm**, Washington University – St. Louis, Fall 2013 – Spring 2017.

**Thesis Title:** Weighted Inequalities for Three Operators

First Position: Postdoctoral Fellow at Texas A&M University

Present Position: Texas A&M University

**James Scurry**, Georgia Institute of Technology, Fall 2008 – Spring 2013.

**Thesis Title:** One and Two Weight Theory in Harmonic Analysis

Best PhD Thesis in the School of Mathematics Academic Year 2012 – 2013 First Position:

Industry Position

Present Position: U.S. Census Bureau

### Visiting Students Mentored:

Shengkun Wu, Chongqing University (visiting Washington University – St. Louis), Fall 2019–Spring 2021.

Taneli Korhonen, University of Eastern Finland, (visiting Washington University – St. Louis), Fall 2016.

Roc Oliver Vendrell, University of Barcelona, (visiting Washington University – St. Louis), Fall 2015.

Mustafa Cemil Bişgin, Erciyes University, (visiting Georgia Institute of Technology), Fall 2013 – Spring 2014.