Michael T. Lacey
Full Professor
School of Mathematics
Georgia Institute of Technology

Contents

I. Earned Degrees

1987 **University of Illinios**, Urbana Illinios
    Ph.D. in Mathematics.
    Advisor: Walter Philipp

1981 **University of Texas**, Austin, Texas.
    B.S. in Mathematics

II. Employment History

2017—20XX Full Professor and Associate Chair for Faculty, Georgia Institute of Technology

2001—20XX Full Professor, Georgia Institute of Technology

1998—2001 Associate Professor, Georgia Institute of Technology, Atlanta

1996—1998 Associate Professor w/o tenure, Georgia Institute of Technology, Atlanta

1989—1996 Assistant Professor, Indiana University, Bloomingtion

1988—1989 Assistant Professor, University of North Carolina, Chapel Hill

1987—1988 Assistant Professor, Louisiana State University, Baton Rouge

III. Honors and awards

2013 **American Mathematical Society Fellow**
"In recognition of outstanding contributions to the creation, exposition, advancement, communication, and utilization of mathematics."

2012 **Simons Fellow**
About 30 awards from the Simons Foundation each year in the discipline.

2012 **Georigia Tech NSF-ADVANCE Mentoring Award**
For mentoring leading Assistant Professors in the School of Mathematics.

2008 **Fulbright Fellowship, Buenos Aires, Argentina**
A three month teaching and research award.

2004 **Guggenheim Fellow**
Only two to four awards in mathematics each year.

1998 **45 Minute address, International Congress of Mathematicians, Berlin Germany**
A quadrennial event, with a select group of lectures, drawn from the world wide community.

1997 **Awarded Prix Salem, jointly with Christoph Thiele.**
The Prize, an international award in the discipline, is funded jointly by Princeton University and the Institute for Advanced Study.

1990 **NSF Postdoctoral Fellowship**

IV. Research, Scholarship, and Creative Activities

Activities resulting from work done at Georgia Tech are marked with an asterisk ∗.

A. Published Books, Book Chapters, and Edited Volumes
[No data]

A1. Books
[No data]

A2. Refereed Book Chapters
[No data]

A3. Edited Volumes
[No data]

B. Refereed publications and submitted articles

B1. Published and Accepted Journal Articles

∗1. R. Kesler and M. T. Lacey, *Sparse Endpoint Estimates for Bochner-Riesz Multipliers on the Plane*, Colloq. Math., available at 1707.05844.

∗2. M. T. and Mena Lacey D. and Reguera, *Sparse Bounds for Bochner-Riesz Multipliers*, J Fourier Anal. Appl., available at 1705.09375.

∗3. Michael T. Lacey and Henri Martikainen, *Local Tb theorem with L^2 testing conditions and general measures: square functions*, J. Anal. Math. **133** (2017), 71–89. MR3736487

∗4. Michael T. Lacey, *The two weight inequality for the Hilbert transform: a primer*, Harmonic analysis, partial differential equations, Banach spaces, and operator theory. Vol. 2, Assoc. Women Math. Ser., vol. 5, Springer, Cham, 2017, pp. 11–84. MR3688139

∗5. Dmitriĭ Bilik and Maĭkl T. Lèĭsi, *One bit sensing, discrepancy, and the Stolarsky principle*, Mat. Sb. **208** (2017), no. 6, 4–25, DOI 10.4213/sm8656 (Russian, with Russian summary). MR3659577

∗6. Ben Krause and Michael T. Lacey, *A Weak Type Inequality for Maximal Monomial Oscillatory Hilbert Transforms*, Studia Math., to appear, available at `http://arxiv.org/abs/1609.01564`.

∗7. _____ , *Sparse Bounds for Random Discrete Carleson Theorems*, "Tribute to Victor Havin, 1933-2015: 50 Years with Hardy Spaces", available at `1609.08701`.

∗8. Ben Krause, Michael T. Lacey, and Mate Wierdl, *On Convergence of Modulated Ergodic Hilbert Transforms*, Indiana University Math J., to appear, available at `1610.04968`.

∗9. Michael T. Lacey, *Sparse Bounds for Spherical Maximal Functions*, J. D'Analyse Math. (2017), available at `1702.08594`.

∗10. Ben Krause and Michael T. Lacey, *A Discrete Quadratic Carleson Theorem on with ℓ^2 a Restricted Supremum*, Int. Math. Res. Not. IMRN **10** (2017), 3180–3208, DOI 10.1093/imrn/rnw116. MR3658135

∗11. Michael T. Lacey, *An elementary proof of the A_2 bound*, Israel J. Math. **217** (2017), no. 1, 181–195, DOI 10.1007/s11856-017-1442-x. MR3625108

∗12. Michael T. Lacey and Scott Spencer, *Sparse bounds for oscillatory and random singular integrals*, New York J. Math. **23** (2017), 119–131. MR3611077

∗13. Michael T. Lacey, *An elementary proof of the A_2 bound*, Israel J. Math. **217** (2017), no. 1, 181–195, DOI 10.1007/s11856-017-1442-x. MR3625108

∗14. Irina Holmes, Michael T. Lacey, and Brett D. Wick, *Commutators in the two-weight setting*, Math. Ann. **367** (2017), no. 1-2, 51–80, DOI 10.1007/s00208-016-1378-1. MR3606434

∗15. _____ , *Bloom's inequality: commutators in a two-weight setting*, Arch. Math. (Basel) **106** (2016), no. 1, 53–63.

∗16. Carlos Domingo-Salazar, Michael T. Lacey, and Guillermo Rey, *Borderline weak-type estimates for singular integrals and square functions*, Bull. Lond. Math. Soc. **48** (2016), no. 1, 63–73.

∗17. Michael T. Lacey and Kangwei Li, *On A_p–A_∞ type estimates for square functions*, Math. Z. **284** (2016), no. 3-4, 1211–1222.

∗18. Michael T. Lacey and Scott **Spencer**, *On entropy bumps for Calderón-Zygmund operators*, Concr. Oper. **2** (2015), 47–52.

∗19. Michael T. Lacey and Henri Martikainen, *Local Tb theorem with L^2 testing conditions and general measures: Calderón-Zygmund operators*, Ann. Sci. Éc. Norm. Supér. (4) **49** (2016), no. 1, 57–86.

∗20. Michael T. Lacey and Kangwei Li, *Two weight norm inequalities for the g function*, Math. Res. Lett. **21** (2014), no. 3, 521–536.

∗21. Michael T. Lacey, *On the Separated Bumps Conjecture for Calderón-Zygmund Operators*, Hokkaido Math. J. **45** (2016), no. 2, 223–242.

∗22. Gagik Amirkhanyan, Dmitriy Bilyk, and Michael T. Lacey, *Dichotomy results for the L^1 norm of the discrepancy function*, J. Math. Anal. Appl. **410** (2014), no. 1, 1–6.

∗23. Michael T. Lacey and Antti V. Vähäkangas, *On the Local Tb Theorem: A Direct Proof under the Duality Assumption*, Proc. Edinb. Math. Soc. (2) **59** (2016), no. 1, 193–222.

∗24. ———, *The perfect local Tb theorem and twisted martingale transforms*, Proc. Amer. Math. Soc. **142** (2014), no. 5, 1689–1700.

∗25. Michael T. Lacey, *Two-weight inequality for the Hilbert transform: A real variable characterization, II*, Duke Math. J. **163** (2014), no. 15, 2821–2840.

∗26. Michael T. Lacey, Eric T. Sawyer, Chun-Yen Shen, and Ignacio Uriarte-Tuero, *Two-weight inequality for the Hilbert transform: A real variable characterization, I*, Duke Math. J. **163** (2014), no. 15, 2795–2820.

∗27. Tuomas P. Hytönen, Michael T. Lacey, and Ioannis Parissis, *A variation norm Carleson theorem for vector-valued Walsh-Fourier series*, Rev. Mat. Iberoam. **30** (2014), no. 3, 979–1014.

∗28. ———, *The vector valued quartile operator*, Collect. Math. **64** (2013), no. 3, 427–454.

∗29. Michael T. Lacey and Yen Do, *Weighted bounds for variational Fourier series*, Studia Math. **211** (2012), no. 2, 153–190.

∗30. Tuomas P. Hytönen and Michael T. Lacey, *Pointwise convergence of vector-valued Fourier series*, Math. Ann. **357** (2013), no. 4, 1329–1361.

∗31. Tuomas P. Hytönen, Michael T. Lacey, and Carlos Pérez, *Sharp weighted bounds for the q-variation of singular integrals*, Bull. Lond. Math. Soc. **45** (2013), no. 3, 529–540.

∗32. Yen Do and Michael T. Lacey, *Weighted Bounds for Variational Walsh–Fourier Series*, J. Fourier Anal. Appl. **18** (2012), no. 6, 1318–1339.

∗33. Michael T. Lacey, Eric T. Sawyer, Ignacio Uriarte-Tuero, and Chun-Yen Shen, *The Two Weight Inequality for Hilbert Transform, Coronas, and Energy Conditions*, available at `http://www.arxiv.org/abs/1108.2319`.

∗34. Tuomas P Hytonen and Michael T. Lacey, *The Ap-Ainfty inequality for general Calderon-Zygmund operators*, Indiana Univ. Math. J. **61** (2012), no. 6, 2041 –2052.

∗35. Michael T. Lacey, *An A_p-A_∞ inequality for the Hilbert transform*, Houston J. Math. **38** (2012), no. 3, 799–814. MR2970659

∗36. Tuomas P. Hytönen, Michael T. Lacey, Henri Martikainen, Tuomas Orponen, Maria Carmen Reguera, Eric T. Sawyer, and Ignacio Uriarte-Tuero, *Weak and strong type estimates for maximal truncations of Calderón-Zygmund operators on A_p weighted spaces*, J. Anal. Math. **118** (2012), 177–220.

∗37. Yen Q. Do and Michael T. Lacey, *On the convergence of lacunacy Walsh-Fourier series*, Bull. Lond. Math. Soc. **44** (2012), no. 2, 241–254.

∗38. Michael T. Lacey, Eric T. Sawyer, and Ignacio Uriarte-Tuero, *A Two Weight Inequality for the Hilbert transform Assuming an Energy Hypothesis*, J Funct Anal **263** (2012), 305–363.

∗39. Michael T. Lacey, Stefanie Petermichl, Jill C. Pipher, and Brett D. Wick, *Multiparameter Div-Curl lemmas*, Bull. Lond. Math. Soc. **44** (2012), no. 6, 1123–1131.

∗40. Michael T. Lacey, Eric T. Sawyer, and Ignacio Uriarte-Tuero, *A characterization of two weight norm inequalities for maximal singular integrals with one doubling measure*, Anal. PDE **5** (2012), no. 1, 1–60.

∗41. Michael T. Lacey, Stefanie Petermichl, and Maria Carmen Reguera, *Sharp A_2 inequality for Haar shift operators*, Math. Ann. **348** (2010), no. 1, 127–141.

∗42. Michael T. Lacey, Kabe Moen, Carlos Pérez, and Rodolfo H. Torres, *Sharp weighted bounds for fractional integral operators*, J. Funct. Anal. **259** (2010), no. 5, 1073–1097.

∗43. Dmitriy Bilyk, Michael T. Lacey, Ioannis Parissis, and Armen **Vagharshakyan**, *Exponential squared integrability of the discrepancy function in two dimensions*, Mathematika **55** (2009), no. 1-2, 1–27.

∗44. Michael T. Lacey, Eric T. Sawyer, and Ignacio Uriarte-Tuero, *Astala's Conjecture on Distortion of Hausdorff Measures under Quasiconformal Maps in the Plane*, Acta Math. **204** (2010), no. 2, 273-292.

∗45. Michael T. Lacey, *Haar shifts, commutators, and Hankel operators*, Rev. Un. Mat. Argentina **50** (2009), no. 2, 1–13.

∗46. Dmitriy Bilyk, Michael T. Lacey, Xiaochun Li, and Brett D. Wick, *Composition of Haar paraproducts: the random case*, Anal. Math. **35** (2009), no. 1, 1–13 (English, with English and Russian summaries).

∗47. Dmitriy Bilyk, Michael T. Lacey, and Armen **Vagharshakyan**, *On the signed small ball inequality*, Online J. Anal. Comb. **3** (2008), Art. 6, 7.

∗48. _____, *On the small ball inequality in all dimensions*, J. Funct. Anal. **254** (2008), no. 9, 2470–2502.

∗49. Dmitriy Bilyk and Michael T. Lacey, *On the small ball inequality in three dimensions*, Duke Math. J. **143** (2008), no. 1, 81–115.

∗50. Michael T. Lacey, *On the discrepancy function in arbitrary dimension, close to L^1*, Anal. Math. **34** (2008), no. 2, 119–136 (English, with English and Russian summaries).

∗51. Michael T. Lacey, Stefanie Petermichl, Jill C. Pipher, and Brett D. Wick, *Multiparameter Riesz commutators*, Amer. J. Math. **131** (2009), no. 3, 731–769.

∗52. Michael T. Lacey and Xiaochun Li, *On a conjecture of E. M. Stein on the Hilbert transform on vector fields*, Mem. Amer. Math. Soc. **205** (2010), no. 965, viii+72.

∗53. Ciprian Demeter, Michael T. Lacey, Terence Tao, and Christoph Thiele, *Breaking the duality in the return times theorem*, Duke Math. J. **143** (2008), no. 2, 281–355.

∗54. _____, *The Walsh model for M_2^* Carleson*, Rev. Mat. Iberoam. **24** (2008), no. 3, 721–744.

∗55. Michael T. Lacey and Erin Terwilleger, *A Wiener-Wintner theorem for the Hilbert transform*, Ark. Mat. **46** (2008), no. 2, 315–336.

∗56. Michael T. Lacey and William McClain, *On an argument of Shkredov on two-dimensional corners*, Online J. Anal. Comb. **2** (2007), Art. 2, 21 pp. (electronic).

∗57. Michael T. Lacey, *Commutators with Reisz potentials in one and several parameters*, Hokkaido Math. J. **36** (2007), no. 1, 175–191.

∗58. Michael T. Lacey and Jason Metcalfe, *Paraproducts in one and several parameters*, Forum Math. **19** (2007), no. 2, 325–351.

∗59. Carlos Cabrelli, Michael T. Lacey, Ursula Molter, and Jill C. Pipher, *Variations on the theme of Journé's lemma*, Houston J. Math. **32** (2006), no. 3, 833–861 (electronic).

∗60. Michael T. Lacey and Erin Terwilleger, *Hankel operators in several complex variables and product BMO*, Houston J. Math. **35** (2009), no. 1, 159–183.

∗61. Michael T. Lacey and Xiaochun Li, *Maximal theorems for the directional Hilbert transform on the plane*, Trans. Amer. Math. Soc. **358** (2006), no. 9, 4099–4117 (electronic).

∗62. Michael T. Lacey, *Issues related to Rubio de Francia's Littlewood-Paley inequality*, NYJM Monographs, vol. 2, State University of New York University, Albany, Albany, NY, 2007.

∗63. Michael T. Lacey, Erin Terwilleger, and Brett D. Wick, *Remarks on product VMO*, Proc. Amer. Math. Soc. **134** (2006), no. 2, 465–474 (electronic).

∗64. G. A. Karagulyan and M. T. Leĭsi, *An estimate for maximal operators associated with generalized lacunary sets*, Izv. Nats. Akad. Nauk Armenii Mat. **39** (2004), no. 1, 73–82 (Russian).

∗65. Michael T. Lacey, *Carleson's theorem: proof, complements, variations*, Publ. Mat. **48** (2004), no. 2, 251–307.

∗66. Jose Barrionuevo and Michael T. Lacey, *A weak-type orthogonality principle*, Proc. Amer. Math. Soc. **131** (2003), no. 6, 1763–1769 (electronic).

∗67. Sarah H. Ferguson and Michael T. Lacey, *A characterization of product BMO by commutators*, Acta Math. **189** (2002), no. 2, 143–160.

∗68. Michael T. Lacey, *Carleson's theorem with quadratic phase functions*, Studia Math. **153** (2002), no. 3, 249–267.

∗69. Pascal Auscher, Steve Hofmann, Michael T. Lacey, Alan McIntosh, and Ph. Tchamitchian, *The solution of the Kato square root problem for second order elliptic operators on R^n*, Ann. of Math. (2) **156** (2002), no. 2, 633–654.

∗70. Steve Hofmann, Michael T. Lacey, and Alan McIntosh, *The solution of the Kato problem for divergence form elliptic operators with Gaussian heat kernel bounds*, Ann. of Math. (2) **156** (2002), no. 2, 623–631.

∗71. Pascal Auscher, Steve Hofmann, Michael T. Lacey, John Lewis, Alan McIntosh, and Philippe Tchamitchian, *The solution of Kato's conjectures*, C. R. Acad. Sci. Paris Sér. I Math. **332** (2001), no. 7, 601–606 (English, with English and French summaries).

∗72. Michael T. Lacey and Christoph Thiele, *A proof of boundedness of the Carleson operator*, Math. Res. Lett. **7** (2000), no. 4, 361–370.

∗73. _____, *L^p estimates on the bilinear Hilbert transform for $2 < p < \infty$*, Ann. of Math. (2) **146** (1997), no. 3, 693–724.

∗74. _____, *On Calderón's conjecture for the bilinear Hilbert transform*, Proc. Natl. Acad. Sci. USA **95** (1998), no. 9, 4828–4830 (electronic).

∗75. _____, *On Calderón's conjecture*, Ann. of Math. (2) **149** (1999), no. 2, 475–496.

∗76. _____, *L^p estimates for the bilinear Hilbert transform*, Proc. Nat. Acad. Sci. U.S.A. **94** (1997), no. 1, 33–35.

∗77. Michael T. Lacey, *The bilinear maximal functions map into L^p for $2/3 < p \leq 1$*, Ann. of Math. (2) **151** (2000), no. 1, 35–57.

∗78. Roger L. Jones, Michael T. Lacey, and Máté Wierdl, *Integer sequences with big gaps and the pointwise ergodic theorem*, Ergodic Theory Dynam. Systems **19** (1999), no. 5, 1295–1308.

∗79. Michael T. Lacey, *On the bilinear Hilbert transform*, Proceedings of the International Congress of Mathematicians, Vol. II (Berlin, 1998), 1998, pp. 647–656 (electronic).

∗80. ———, *The bilinear Hilbert transform is pointwise finite*, Rev. Mat. Iberoamericana **13** (1997), no. 2, 411–469.

81. ———, *The return time theorem fails on infinite measure-preserving systems*, Ann. Inst. H. Poincaré Probab. Statist. **33** (1997), no. 4, 491–495 (English, with English and French summaries).

82. ———, *On an inequality due to Bourgain*, Illinois J. Math. **41** (1997), no. 2, 231–236.

83. ———, *Sharp estimates of the Sobolev norm of u times the gradient of v*, J. Math. Anal. Appl. **205** (1997), no. 2, 554–559.

84. ———, *On bilinear Littlewood-Paley square functions*, Publ. Mat. **40** (1996), no. 2, 387–396.

85. ———, *Bourgain's entropy criteria*, Convergence in ergodic theory and probability (Columbus, OH, 1993), 1996, pp. 249–261.

86. C. Houdré and Michael T. Lacey, *Spectral criteria, SLLN's and a.s. convergence of series of stationary variables*, Ann. Probab. **24** (1996), no. 2, 838–856.

87. Michael T. Lacey, *Transferring the Carleson-Hunt theorem in the setting of Orlicz spaces*, Interaction between functional analysis, harmonic analysis, and probability (Columbia, MO, 1994), 1996, pp. 307–314.

88. ———, *Ergodic averages on circles*, J. Anal. Math. **67** (1995), 199–206.

89. Michael T. Lacey, Karl Petersen, Máté Wierdl, and Dan Rudolph, *Random ergodic theorems with universally representative sequences*, Ann. Inst. H. Poincaré Probab. Statist. **30** (1994), no. 3, 353–395 (English, with English and French summaries).

90. Michael T. Lacey, *Weak convergence in dynamical systems to self-similar processes with time average representation*, Chaos expansions, multiple Wiener-Itô integrals and their applications (Guanajuato, 1992), 1994, pp. 163–178.

91. ———, *On central limit theorems, modulus of continuity and Diophantine type for irrational rotations*, J. Anal. Math. **61** (1993), 47–59.

92. ———, *Weak convergence to self-affine processes in dynamical systems*, New directions in time series analysis, Part II, 1993, pp. 255–262.

93. ———, *On almost sure noncentral limit theorems*, J. Theoret. Probab. **4** (1991), no. 4, 767–781.

94. ———, *On weak convergence in dynamical systems to self-similar processes with spectral representation*, Trans. Amer. Math. Soc. **328** (1991), no. 2, 767–778.

95. ———, *Large deviations for the maximum local time of stable Lévy processes*, Ann. Probab. **18** (1990), no. 4, 1669–1675.

96. ———, *Limit laws for local times of the Brownian sheet*, Probab. Theory Related Fields **86** (1990), no. 1, 63–85.

97. Michael T. Lacey and Walter Philipp, *A note on the almost sure central limit theorem*, Statist. Probab. Lett. **9** (1990), no. 3, 201–205.

98. Michael T. Lacey, *A remark on the multiparameter law of the iterated logarithm*, Stochastic Process. Appl. **32** (1989), no. 2, 355–367.

99. _____, *Laws of the iterated logarithm for partial sum processes indexed by functions*, J. Theoret. Probab. **2** (1989), no. 3, 377–398.

100. _____, *Laws of the iterated logarithm for the empirical characteristic function*, Ann. Probab. **17** (1989), no. 1, 292–300.

B2. Conference Presentation with Proceedings (Refereed)

[No data]

B3. Other Refereed Material

[No data]

B4. Submitted Journal Articles

∗101. Amalia Culiuc, Robert Kesler, and Michael T. Lacey, *Sparse Bounds for the Discrete Cubic Hilbert Transform*, available at 1612.08881.

∗102. Ben Krause and Michael T. Lacey, *Sparse Bounds for Maximally Truncated Oscillatory Singular Integrals*, available at `http://arxiv.org/abs/1701.05249`.

∗103. Dmitriy Bilyk and Michael T. Lacey, *Random Tessellations, Restricted Isometric Embeddings, and One Bit Sensing*, submitted, Dec 2015 (2015), available at `http://arxiv.org/abs/1512.06697`.

∗104. Michael T. Lacey and Brett Wick, *Two Weight Inequalities for Riesz Transforms: Uniformly Full Dimension Weights*, submitted, Dec 2013 (2013), available at `http://arxiv.org/abs/1312.6163`.

∗105. Michael T. Lacey, Eric T. Sawyer, Ignacio Uriarte-Tuero, Chun-Yun Shen, and Brett Wick, *Two Weight Inequalities for the Cauchy Transform from $\mathbb{R}$ to $\mathbb{C}_+$*, submitted, Oct 2013 (2013), available at `http://arxiv.org/abs/1310.4820`.

C. Other Publications and Creative Products

[No data]

D. Presentations

2017 Plenary Address: Introductory Workshop, MSRI (3 hours)
Plenary address: Harmonic Analysis Conference, Macquarie University
Plenary address: Eli Stein Conference, Wroclaw Poland

2016 Colloquim: University of Virginia
Plenary address: Conference in honor of Michael Christ, Madison WI
Plenary address: CRM - University Autonoma Barcelona
Seminar: Georgia Tech

2015 Colloquium: Vanderbilt, University of South Carolina, University of Minnestoa
Plenary address: Frontiers of Singular Integrals, Helsinki; Mittag-Leffler Institute
Seminars: University of Georgia, Athens; Georgia Tech; Chalmers University, Sweden; Lund University, Sweden.

2014 Oberwolfach Two weight inequalities
Plenary: SEAM at Clemson, Two weight inequalities,
Colloquium, Temple University Two weight inequalities
Plenary, 5th International Conference on Computational Harmonic Analysis, Vanderbilt,

Plenary, Hausdorff Institute, Bonn, Germany
Plenary, Michael Cowling Conference, Segovia Spain
Plenary, Harmonic Analysis Conference, Macquarie University, Sydney Australia
Plenary, Taft Lectures in Mathematics, University of Cincinnati (2 lectures)
Seminar, Brown University
Seminar, AMS West Sectional meeting, Alberquerque,
2013 Colloquium, Trinity University
Seminar, U Minnesota
Seminar, Athens GA
Plenary: IPAM Conference, in honor of Karri Astala
Plenary: CIAM Distinguished Lecturer Series, University of South Australia, Adelaide
Mentor Discussion, University of South Australia, Adelaide
Seminar, CBMS at Clemson University
Plenary Address, annual meeting of the Austrian Mathematical Society, Innsbruck Austria
Seminar, Oberwolfach
Seminar, Brown
Seminar, Postdoc seminar on grantsmanship
2012 Colloquium, Yale University
Seminar, Georgia Tech
Plenary: Monte Carlo Methods, Sydney Australia
Plenary: SEAM, Tuscaloosa AL
Seminar, Universite Paul Sabateur, Toulouse, France
Colloquium: Schrodinger Institue, Vienna Austria
Colloquium, Lund University, Sweden
Seminar Princeton
Seminar, UCLA
Plenary address: Nanjing China
Plenary: Beijing Normal University (4 lectures in total)
Seminar, Center for Advanced Study, Oslo
Seminar, Universitat Autonoma Barcelona
Colloquium, Center for Advanced Study, Oslo
2011 Seminar: Two Weight Inequalities, AMS Special Session, Statesboro GA
Plenary: Two Weight Inequalities, Paesky Summer School, (5 lectures) Czech Republic
Colloquium: Convergence of Fourier Series, Universidad Seville
Plenary: A2 Conjecture, Euler Mathematical Institute, St Petersburg, Russia
Plenary: Two Weight Inequalities, Fields Insitute, Toronto.
Seminar: Applying to Graduate School, GT
Plenary: Two Weight Inequalities, AIM conference, Palo Alto CA, Oct '11
Plenary: Two Weight Inequalities, conference in Barcelona, '11
2010 Colloquim McMaster University,
Colloquium, Georgia Southern University,
Campus wide lecture, Georgia Southern University,
Seminar: SEAM, invited lecture, 30 minutes.
Plenary: RAFORTS, 50 min lecture, Rincon Puerto Rico

Seminar: Futurama, Georgia Tech, . A Club Math talk.
Plenary: Harmonic Analysis Reunion, , Fields Institute
Plenary, Conference in honor of Richard Wheeden, Seville Spain,
Plenary, Józef Marcinkiewicz Centenary Conference,
Seminar: Applying to Grad School, lecture to undergrads at GT,
Seminar: Linear Bound in A2, KTH Stockholm,
Short Course: Two Weight Inequalities, 10 lectures University of Helsinki,
Colloquium: Convergence of Fourier Series, University of Helsinki,
Colloquium: Convergence of Fourier Series, University of Rochester,
Seminar: Two Weight Inequalities, Canadian Math Society Meeting, Vancouver,

2009 Plenary, Small Ball Inequalities, Yerevan, Armenia,   .
Plenary, Kato Square Root Theorem, Universidad Autonoma Barcelona,
Plenary Small Ball Inequalities, Arkansas Spring Lectures, (Five Lectures)
Colloquium: Two Weight Inequalities, Universidad Autonoma Barcelona,
Colloquium: Two Weight Inequalities, Universidad Autonoma Madrid,
Colloquium: Fourier Series, Jena University, Germany,
Small Ball Inequalities, Seminar, Jena University, Germany,
Small Ball Inequalities, Conference in memory of Walter Philipp,
Two Weight Inequalities, Seminar, Georgia Tech,
Two Weight Inequalities, Seminar, Wayne State University
Fourier Series, Colloquium, Wayne State University
Two Weight Inequalities, Seminar, Auburn University Mini-Confernce,

2008 Seminar, Fields Institute.
Seminar, University of Wisconsin, Jan.
Harmonic Analysis Workshop, Fields Institute, Mar.
Plenary, Southeastern Analysis Meeting, Nashville TN, .
Colloquium, University of Waterloo, Mar
Colloquium, Georgia Tech, .
Seminar, Banff Research Station, Mar.
Plenary, CIMPA School, La Falda Argentina, .
Colloquium, Universidad de Buenos Aires, .
Seminar, Universidad de Litoral, Santa Fe, Argentina, .
Plenary, FSDONA, Helskinki Finland, .
Plenary, Approximation Theory and Harmonic Analysis, Tshakador, Armenia, .
Plenary Talks, Auburn Mini-Conference
Plenary, Small Ball Inequality and related topics, AIM Conference.

2007 Colloquium, Louisiana State University, Nov
Seminar, University of North Carolina, Nov
Applying to Graduate School, Georgia Tech, Oct
Trijinsky Lectures, UIUC Oct
Seminar, University of Crete, Heraklion
Plenary, Discrepancy, Varenna Italy
Seminar, UCLA
Seminar, Brown University,

AMS Special Session, Davidson NC,
Colloquium, UT-Austin,
Colloquium, TAMU,
Colloquium, U Maryland
2006 Seminar Scualo Normali, Pisa Italy,
Arithmetic Combinatorics, CRM Montreal,
Plenary, CIRM Marseille France,
Seminar, Universite d'Bordeaux,
Plenary, Zaros, Crete,
6 Seminars, University of Crete,
Plenary, Analysis in Barcelona,
Two Seminars, Georgia Tech
Colloquium, TAMU
AMS Special Session, Salt Lake City
CMS Winter Meeting, Toronto
2005 Seminar University of British Columbia,
Technical University of Vienna,
E. Schrodinger Institute, Vienna, Seminar
Oberwolfach, (Participation only)
Plenary, Harmonic Analysis in Japan (Two Lectures)
Plenary, Harmonic Analysis and Approximation in Armenia
Number Theory Seminar, UIUC
'Applying to Grad School' UIUC
Colloquim, Vanderbilt University,
'Applying to Grad School' Vanderbilt University,
Invited Talk, Harmonic Analysis and Ergodic Theory, DePaul University,
2004 Colloquium, Simon Fraser University, Vancouver
Seminar, Simon Fraser University, Vancouver
Colloquim, University of South Carolina
Seminar, University of South Carolina
Invited Address, Southern California PDE meeting, San Diego CA
Seminar, Brown University
Colloquium , Temple University
Invitied Talk, SEAM, Tuscaloosa, Alabama
Special Trimester, Centro Di Georgi, Pisa, Italy ()
SUMIFRAS, Texas A&M University
Seminar, University of Georgia, Athens
Two Seminars, Georgia Tech
Auburn Miniconference
IPAM (UCLA) Math Analysis and Multiscale Geometric Analysis Workshop
2003 Six Seminars, E. Schrodinger Institute, Vienna Austria
Keynote, Southeastern Analysis Meeting, Knoxville TN
Colloquium, Technical University of Graz
Seminar, "Mathematics in Armenia" Thaskador Armenia

Seminar and Colloquium, University of British Columbia
Seminar, UCLA
Contributed Talk, CMS Annual Meeting, Vancouver
2002 Seminar, Macquarie University, Sydney Australia
Seminar, Australian National University, Canberra
Conference, Spring Lectures, Univ Arkansas, Fayetteville
Undergrad talk, University of Arkansas, Fayetteville
Conference , PDE, Harmonic Analysis, University of Missouri
Conference, Fabes-Riviere Symposium, University of Minnesota
Conference, Harmonic Analysis, Oberwolfach
Colloquium, Universite Francoise Rabelais, Tours France
Colloquium, Universite d'Cergy, France
Seminar, Universite d'Paris, Orsay France
Seminar, Universite d'Orleans, France
2001 Seminar, University of Missouri, Columbia
Seminar, University of South Carolina
Contributed Talk, Southeast Analysis Meeting, , hens GA
Conference, University of Memphis
Colloquium, University of Missouri
Conference Talk, Convexity   , Milan
Conference Talk Young Analysts Meeting, Furman University, SC
Conference Talk Approx Theory, Yerevan, Armenia
Colloquium, U Tennessee, Knoxville
Undergrad Talk, U Tennessee, Knoxville
Seminar, Princeton University
Conference Talk, Harmonic Analysis, Auburn University, AL
2000 Seminar, University of New South Wales, Australia
Colloquium, Australian National University, Canbera
Seminar, Macquarie University, Sydney Australia
1999 Conference Talk, Vanderbilt Univ.
AMS Special Session Organizer Melbourne, Australia
Colloquium, Australian Nat. University
Seminar, Univ. of New South Wales
Seminar, Auburn University
Colloquium, Banach Center, Warsaw, Poland
1998 Colloquium, University of Memphis
Seminar, Kiel Germany
45 Min. Address ICM, Berlin Germany
Seminar, IMPA, Rio de Janeiro, Brazil
Plenary Address, AMS Southeastern Meeting, Atlanta GA
Colloquium, Texas A & M
1997 Seminar, Dixieland Seminar, , Emory University
Seminar, Georgia Tech
Seminar, Laurent-Schwartz Seminar, Univ. Paris VI

Seminar, Harmonic analysis and PDE Workshop, MSRI

Seminar, MSRI

Keynote, Wabash Seminar, , Indianapolis

Colloquium, Florida State University

Colloquium, University of South Alabama

Seminar, AMS Meeting, Pretoria, South Africa

1996 Colloquium, Georgia Institute of Technology

Colloquium, University of New Mexico

Seminar, Miniconference on Harmonic Analysis, Auburn University

1995 Seminar, Yale University

Colloquium, Georgia Institute of Technology

Seminar, Meeting with C. Fefferman, Princeton University

Seminar, City University of New York

1994 Seminar, at Washington University, St. Louis (2 talks)

Conference on Probability Theory, Banach Spaces and Harmonic Analysis, University of Missouri, Columbia

Seminar, at Calderon-Zygmund Seminar, , University of Chicago

1993 Seminar, University of Wisconsin, Madison

Seminar, Conference on Probability Theory, Indiana University, Bloomington

Seminar, Conference on a.e. convergence, Ohio State University

Seminar, Conference on Probability in Banach Spaces, Aarhus University, Denmark

Colloquium, University of Umea, Sweden

Seminar, University of Paris VI, Paris, France

Seminar, University of Rennes, France

Seminar, University of Francois Rabelais, Tours, France

1992 Seminar, Purdue University

Seminar, Conference on Probability Theory and Harmonic Analysis, Kansas State University

Seminar, University of Maryland, College Park

Colloquium, University of Maryland, College Park

Seminar, Ohio State University

Colloquium, Ohio State University

Seminar, Conference on Wiener-Ito Integrals, CIMAT, Guanajuato, Mexico

1991 Seminar, Texas A&M University

Seminar, Memphis State University

Seminar, University of NC, Chapel Hill

Seminar, Regional Conference on Harmonic Analysis, Auburn University

Seminar, University of Texas, Austin

Seminar, Sherman Memorial Conference, Indiana University

Seminar, AMS Special Session, North Dakota State University

1991 Seminar, Special Workshop in Ergodic Theory, University of North Carolina

1990 Seminar, Purdue University

Seminar, AMS Special Session, Kansas State University

Seminar, Texas A&M University

Seminar, IMA, University of Minnesota

Seminar, University of Illinois, Urbana Champaign

1989 Seminar, Boston University

Colloquium, Boston University

Seminar, Conference on a.e. convergence, Northwestern University

1988 Two Seminars , Louisiana State University

Three Seminars, at University of NC, Chapel Hill

E. Grants and Contracts

E1. As Principal Investigator

2017 AGEP-Graduate Research Assistant supplement to the existing award NSF-DMS:1600693. Award Amount: $61,000.

2016-19 **Discrete Problems in Harmonic Analysis and One Bit Sensing.** National Science Foundation Award Number:1600693; PI:Michael Lacey; Start Date: 05/15/2016; End Date 05/15/2019; Award Amount:$179,479;

2013-16 **Two Weight Inequalities for Singular Integrals** Award Number:1265570; PI:Michael Lacey; NSF Organization:DMS Start Date: 05/15/2013; End Date 05/15/2016; Award Amount:$327,000.

2012 **Two Weight Inequalities for Singular Integrals** PI:Michael Lacey; Simons Foundation. Start Date: 07/15/2012; End Date 07/15/2013; Award Amount:$130,000.

2010-13 **Problems in Weighted Inequalities, Phase Plane Analysis** Award Number:0968499; PI:Michael Lacey; NSF Organization:DMS Start Date: 06/01/2010; End Date 06/01/2013; Award Amount:$292,000.

2005-08 **FRG: Collaborative Research: New Trends in Harmonic Analysis** Award Number:0456538; PI:Michael Lacey; Co-PI:Yang Wang, Mihail Kolountzakis, Gerd Mockenhaupt;NSF Organization:DMS Start Date: 06/01/2005; End Date 06/01/2008; Award Amount:$402,754;

2009 **Special Meeting: CRM Special Semester on Harmonic analysis, Geometric Measure Theory and Quasiconformal Mappings.** Award Number:0902259; PI:Michael Lacey; NSF Organization:DMS Start Date: 03/01/2009; End Date 03/01/2010; Award Amount:$32,600.

2008-13 **EMSW21-MCTP: A Georgia Tech Plan for Recruiting and Mentoring Undergraduates in Mathematics** Award Number:0739343; PI:Michael Lacey; Co-PI:Thomas Morley, Michael Loss, Enid Steinbart, Matthew Baker;NSF Organization:DMS Start Date: 05/01/2008; End Date 05/01/2013; Award Amount:$731,908.

2008 **Special Meeting: Fields Program on New Trends in Harmonic Analysis - International U.S. Participation** Award Number:0648811; PI:Michael Lacey; Co-PI:Barbara Keyfitz;NSF Organization:DMS Start Date: 09/01/2007; End Date 09/01/2008; Award Amount:$50,000.

2005-08 **Investigations in Harmonic Analysis** Award Number:0456611; PI:Michael Lacey; NSF Organization:DMS Start Date: 05/15/2005; End Date 05/15/2008; Award Amount:$597,426.

2002-05 **Topics in Phase Plane Analysis** Award Number:0200241; PI:Michael Lacey; NSF Organization:DMS Start Date: 07/01/2002; End Date 07/01/2005; Award Amount:$208,576.

2001-07 **Vertical Integration of Research and Education in the Mathematical Sciences - VIGRE: VIGRE/GT: Vertical Integration of Research & Education at Georgia Tech.** Award Number:0135290; PI:Michael Lacey; Co-PI:John Pelesko, Richard Duke, Robin Thomas, Joseph Landsberg; NSF Organization:DMS Start Date: 08/15/2002; End Date 08/15/2007; Award Amount:$2,211,693.

1997-00 **Bilinear Singular Integrals** Award Number:9706884; PI:Michael Lacey; ;NSF Organization:DMS Start Date: 07/01/1997; End Date 07/01/2000. Award Amount:$249,137.

1995-98 **Bilinear Problems in Analysis.** Award Number:9423678; PI:Michael Lacey; Organization:Indiana University;NSF Organization:DMS Start Date:06/01/1995; End Date Date:06/01/1998. Award Amount:$40,000.

1991-94 **Mathematical Sciences: Postdoctoral Research Fellowship.** Award Number:9107905; PI:Michael Lacey; Organization:Fellowships;NSF Organization:DMS Start Date:07/01/1991; End Date:07/01/1994; Award Amount:$75,000.

1990-92 **Weak Convergence in Dynamical Systems.** Award Number:9003245; PI:Michael Lacey; Organization:Indiana University;NSF Organization:DMS Start Date:07/01/1990; End Date:07/01/1992; Award Amount:$19,040.

E2. As Co-Principal Investigator
[No data]

E3. As Senior Personnel or Contributor

2014-17 **Harmonic analysis: function spaces and singular integral operators.** Australian Reseach Council Grant DP120100399. A/Prof Lesley Ward; Prof Xuan Thinh Duong; Prof Jill Pipher; Prof Michael Lacey. University of South Australia $270,000 Start Date: 31/10/2014; End Date 31/10/2017.

2015-18 **Multiparameter Harmonic Analysis: Weighted Estimates for Singular Integrals.** Australian Reseach Council Grant DP160100153; Prof Xuan Thinh Duong; A/Prof Lesley Ward; Dr Ji Li; Prof Michael Lacey; Prof Jill Pipher. Macquarie University; $367,269; Start Date 31/12/2015, End Date 31/12/2018.

E4. Proposals Submitted But Not Funded
[No data]

F. Other Scholarly and Creative Accomplishments
[No data]

G. Societal and Policy Impacts

- Many of the grants above have funded postdocs and graduate students, under my supervision, but most not under my supervision. These people under my supervision are listed on other parts of the CV. They are pursing STEM career paths at different locations around the US and Europe.

2002-07 The VIGRE grant funded 27 postdoc years, many more graduate student years, and about 50 REU's. All were engaged in a set of research and training activities that spanned the different training missions, and research expertise of the School. These programs jump started a postdoctoral program that remains quite vigorous. And jump started the deeper integration of REUs in the School.

2002-07 VIGRE Director. From the third year review: "It is apparent that PI Michael Lacey plays an extensive and pivotal role in the mentoring of undergraduates, graduate students, and postdocs. Many highly favorable reports about the School's VIGRE activities from trainees were phrased in terms such as 'A professor suggested …' and in almost every case that professor was Dr. Lacey."

2008-13 The EMSW21-MCTP grant was exclusively money targeted at the undergraduate level, including REU and scholarship money. It was awarded on the basis of a strong record of placing undergraduate majors into the graduate degree programs. That record continues to be built each year in the School.

H. Other Professional Activities

[No data]

V. Teaching

A. Courses Taught

Fall 2017 Math 1554, Distance Learning. Same number of students and instructors as Fall 2016. Implementing web-based marking of exams. First such sanctioned use on the Georgia Tech campus.

Fall 2016 Math 1554, Distance Learning. 300 Campus students, 450 High School students at 20 different High Schools around the State of Georia, taught with two lead instructors, in eight sections. Implemented much stronger coordination between the instructors. Also increased the difficulty of exams.

Fall 2016 Math 8803, Mathematics of Compressive Sensing, 25 students. First such course taught in the School of Mathematics.

Fall 2015 Undergraduate Research (One Bit Johnson Lindenstrauss Lemma) 2 students

Fall 2015 Math 2106, Foundations of Math Proof

Fall 2014 Math 2411, Honors Vector Calculus

Fall 2014 Math 6221, Advanced Classical Probabilty Theory

Spring 2014 Math 8803, Weighted Inequalities

Spring 2014 Math 3225, Honors Probability and Statistics

Fall 2013 Math 3225, Honors Probability and Statistics, 15 students

Fall 2013 Math 4305, Linear Algebra, 60 students

Fall 2011 Math 6580, Hilbert Space and Linear Operators, 4 students

Fall 2011 Math 3225, Honors Probability and Statistics, 10 students

Fall 2011 Math 3215, Probability and Statistics, 40 students

Spring 2011 Math 4305, Linear Algebra, 60 students

Spring 2011 Math 2411, Honors Calculus 3, 15 students

Spring 2011 Math 7337, Harmonic Analysis, 7 students

B. Individual Student Guidance

B1. Ph.D. Students

2017 Victor Bailey, PhD May 2020, expected.

2015 Dario Menas, PhD May 2018, expected.

2017 Ishwari Kunwar PhD. Tenure track at Fort Valley State University.

2017 Scott Spencer, PhD. Engineer at Lexis-Nexis.

2014 Gagik Amirkhanyan PhD. working at Amazon.

2011 Maria Carmen Reguera, PhD. U Birmingham, England.

2010 Armen Vagharshakyan, PhD. postdoc at Brown.

B2. M.S. Students

[No data]

B3. Undergraduate Students

2005 I started programs of mentoring students who wanted to go to graduate school. At the time I started there was not even any informal mechansims for such mentoring. I am happy to say that many more faculty are now involved with this effort.

2005 I have organized 10 years of summer REUs for undergraduates, sponsored for grants that I have been a PI on, namely the VIGRE and MCTP grants listed elsewhere on this CV.

2017 I am organizing the GT-IMPACT REU program. This trained three postdocs, two graduate students, and several undergraduates. Seven undergraduates participated in the program, four women, and four African-American.

B4. Service on thesis or dissertation committees

2016 Elnaz Banan. ECE.

2014 Chris Pryby. Mathematics.

2013 Kyle Kreuger. ECE.

2010 Shannon Bishop. Mathematics.

B5. Mentorship of postdoctoral fellows or visiting scholars

2015-17 Amalia Culiuc, Hale Postdoctoral Fellow

2015-17 Robert Kesler, IMPACT Postdoctoral Fellow

2015 Irina Holmes, Georgia Tech SoM Hale Postdoc. Awarded and NSF Postdoctoral Fellowship

2014 Henri Martikainen, supported by Academy of Sciences, Finland.

2012 Antti Vähäkangas moved to postdoctoral position, Helsinki U.

2010-12 Manwah (Lilian) Wong moved to a position in sofware engineering

2011 Yen Do moved to a postdoctoral position at Yale

2010 Kevin P. Costello moved to a NSF Postdoc at Georgia Tech

2007-09 Sergie Borodachov moved to a tenure track position at Towson U

2008 Ioannis Parissis moved to postdoctoral positions at Fields & KTH

2006-08 Dmitriy Bilyk moved to IAS, then University of South Carolina

2006 Julia Garibaldi moved to Emory.

2003-05 Jason Metcalfe VIGRE Postdoc, moved to NSF Postdoc at Berkeley

2002 Erin Terwilleger VIGRE Postdoc, moved to tenure track, U. Conn.

C. Other Teaching Activities

Summer 2017   Lead the REU program for the GT-IMPACT program. A partner program with Agnes Scott, Morehouse, Spelman and Georgia State, it will train several undergraduates in research into signal processing and fluid analysis.

Fall 2016   Taught the Distance Math 1554. This required the development of lecture material for a class of 100 campus students and 225 High School students. This was the first course in the 'after Tom Morely' era. Will be continuing with the course in Fall 2017, running a pilot program of automated grading, as well as other changes.

Fall 2016   **Mathematics of Compressive Sensing**, a graduate special topics course. This is the first time a data science course has been taught in the School of Mathematics.

Spring 2018   **Mathematics of Data Science** , at undergraduate level. This is a new course under development.

VI. Service

A. Professional Contributions

Conference Organization

2017   Lead organizer of a program in Harmonic Analysis, at the Mathematical Sciences Research Institute (MSRI), UC Berkeley, Spring 2017. This is a program of research of world wide significance. Requires substantial effort to manage the activities and participants of the program.

2014   Organizer of a semester program at ICERM/Brown, in High Dimensional Approximation, with oversight of mentoring

2012   Scientific Committee of Abel Symposium, August 2012, Oslo Norway.

2009   Organizer of a Mathematical Research Community event at Snowbird Utah, with C. Thiele, and D. Demeter

2009   Organizer at the CRM-Barcelona, with oversight of funds supporting the participation by US based researchers in the program there.

2008   Organizer of the Small Ball Inequality and Related Topics Workshop, AIM Palo Alto CA

2008   Organizer for the Semester long Program in Harmonic Analysis at the Fields Insitute, Spring 2008. PI on NSF grant to support US based Participants in the program.

2008   Organized the Operator Theory Workshop at the Fields Insitute.

Editorial Boards

2006-   Journal of Geometric Analysis, Editor.

2005-11   Harmonic Analysis editor for the Proceedings of the American Mathematical Society. 80 papers/year submitted; acceptance rate is 25%.

Peer Review

1998   Served on the NSF Harmonic Analysis Panel. Approximately 70-40 proposals are ranked, setting priorities for funding. Also served in 1999, 2001, 2003, 2006, 2009, 2018.

2005   Served on the 2005 NSF Graduate Fellowship Committee, also 2010.

2005   NSF CAREER Fellowship Committee, also 2014.

2015 NSF Postdoctoral Fellowship Panel, also 2016.

20XX Serve as external reviewer for scientific organizations around the world, for grants and conferences. For instance, Canadian Research Council, Australian Research Council, the Academy of Sciences Finland, Newton Institute, European Science Foundation, and Austrian Academy of Sciences.

20XX Review approximately 30 publications per year, and write about the same number of letters of reference.

Other Service

2009-12 Editorial Nominations Board, American Mathematical Society.

2015-18 Nomination Committee for Hour Long Addresses at American Mathematical Society Meetings in the SouthEast.

B. Public and Community Service

[No data]

C. Institute Contributions

2017 Associate Chair for Faculty, School of Mathematics. Advice and assist the Chair on a range of issues, especially related to teaching, promotion, tenure, and periodic review.

2016 Member of Search Committee for Chair of School of Mathematics

2015-6 Postdoctoral Committee

2015-17 Undergraduate Committee

2015-17 Senior Promotion and Tenure

2015-17 Postdoctoral Committee

2014-15 Faculty advisor to the American Mathematical Society Student Chapter

2015 Implicit Bias Group, advising Associate VP Julie R. Ancis

2014-16 College of Science Diversity Committee

2014-15 School of Mathematics Hiring Committee. Hired five tenure track faculty, of which four were women. Since I joined the faculty, the School has hired eleven women. I have been on the Hiring Committee for nine of those hires. In this case, at least, correlation is causation.

2013-14 Chair, School of Mathematics Hiring Committee

2012-13 Member of the Hiring Committee

2009-11 Junior Promotion and Tenure Committee

2008-12 PI on the NSF-MCTP grant, supporting the undergraduate program at Georgia Tech. During the term of this grant, the number of majors rose from 140 to 200; about 35% attend graduate school.

2005-07 Hiring Committee

2003 Salary and Awards Committee

2001 Member of Faculty Advisory Committee.

2001 Director of Undergraduate Education, with oversight of the entire undergraduate program in mathematics, the Georgia Institute of Technology. Different initiatives

here lead to a dramatic improvement in placement of the undergraduates into graduate programs.

2000 Member of Executive Committee.

1998 Chair of Undergraduate Committee. Oversaw the selection of new Calculus texts to implement an "early linear algebra" approach to Calculus.

1998-00 Hiring Committee.