
CURRICULUM VITAE 2025

Lillian B. Pierce

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PROFESSIONAL APPOINTMENTS

Duke University, Professor, 2020 –

Duke University, Nicholas J. and Theresa M. Leonardy Professor 2020 – June 2023

Duke University, Nicholas J. and Theresa M. Leonardy Associate Professor 2018 – 2020

Duke University, Associate Professor 2018

Institute for Advanced Study, von Neumann Fellow 2017–2018

Duke University, Assistant Professor 2014 – 2017

Hausdorff Center for Mathematics, Bonn Junior Fellow 2013 – 2015 (on leave 2014 – 2015)

Duke University, Research Scholar 2013 – 2014

University of Oxford 2010 – 2013

NSF Mathematical Sciences Postdoctoral Research Fellow, Jan 2013 – Jun 2013

Marie Curie Incoming International Fellow, Aug 2010 – Jan 2013

Research Fellow, Wolfson College, Jul 2010 – Jun 2013

Institute for Advanced Study, Princeton, Member Jul 2009 – Jul 2010

NSF Mathematical Sciences Postdoctoral Research Fellow, Simonyi Fund

INVITED VISITING POSITIONS

2022 - 2027 Bonn Research Chair, Hausdorff Center for Mathematics, Bonn

2017 - 2022 Bonn Research Fellow, Hausdorff Center for Mathematics, Bonn

2017 - 2018 von Neumann Fellow, IAS

2017 (May) MSRI, Research Member, Analytic Number Theory and Harmonic Analysis Programs

2016 (August) Max Planck Institute, Bonn

EDUCATION

Princeton University, Ph.D. in Mathematics 2009 (and M.A. in Mathematics)

University of Oxford, M.Sc. by Research in Mathematics 2004

Princeton University, B.A. in Mathematics *summa cum laude*, valedictorian 2002

RESEARCH INTERESTS

Number theory and harmonic analysis

EDITORIAL BOARDS

Essential Number Theory, Founding Editor-in-Chief

Annals of Math. Studies, Princeton University Press

Duke Mathematical Journal

Journal of the AMS (Associate Editor)

Discrete Analysis

Previously: Transactions of the AMS (2019 – 2023), Memoirs of the AMS (2019 – 2023), Experimental Mathematics (2019 – 2022), Journal of Geometric Analysis (2020 – 2022)

FELLOWSHIPS AND AWARDS

2024 AWM Fellow

2023 Guggenheim Fellow (Fellowship period: 2024)

2023 Simons Fellow in Mathematics, Simons Foundation (Fellowship period: 2024)
2021 Fellow of the AMS
2019 Presidential Early Career Award for Scientists and Engineers (PECASE)
2019 Joan and Joseph Birman Fellow, AMS
2018 Sloan Research Fellow
2018 Bass Society of Fellows, Duke University
2018 AWM-Sadosky Research Prize in Analysis
2017 – 2018 von Neumann Fellowship, IAS
2010 – 2013 Marie Curie Incoming International Fellowship
2009 – 2013 NSF Mathematical Sciences Postdoctoral Research Fellowship
2004 – 2008 Centennial Fellowship, Princeton University
2004 – 2007 NSF Graduate Research Fellowship
2002 Rhodes Scholar
2002 Recipient of Marshall Scholarship (declined)
2002 Valedictorian, Princeton University (highest academic achievement)
2002 M. Taylor Pyne Honor Prize co-winner, Princeton University (highest undergraduate distinction)
2002 Miller Prize, Princeton University (excellence in mathematical research)
2001 Class of 1939 Princeton Scholar Award co-winner, Princeton University (best 3rd year student)
2001 Barry M. Goldwater Scholar (national academic merit fellowship for outstanding research)
2001 USA Today All-USA College Academic First Team (top 20 college students in the USA)
2001 One of Glamour Magazine's Top Ten College Women
1999 & 2000 President's Award for Academic Achievement, Princeton University
1999 Freshman First Honor Prize, Princeton University (best 1st year student)

RESEARCH FUNDING

2023 – 2028 NSF DMS-2231514, Research Training Group, co-PI (2,500,000 USD)
2022 – 2025 NSF DMS-2200470
2018 – 2023 AIM SQuaRE grant, research in harmonic analysis
2018 – 2020 Sloan Research Fellow
2018 – 2020 Foerster-Bernstein funding to support a postdoc
2017 – 2022 NSF DMS-1652173 CAREER Grant
2014 – 2017 NSF DMS-1402121 equally funded by Algebra & Number Theory and Analysis panels
2010 – 2013 Marie Curie Incoming International Fellowship, European Commission
2012 – 2013 EPSRC Developing Leaders Award held by Oxford (for returning carers)
2009 – 2010 Support at the IAS from the Simonyi Fund
2009 – 2013 NSF Mathematical Sciences Postdoctoral Research Fellowship
2008 – 2009 Fund for Innovation in Undergraduate Education, Princeton 250th Anniversary Fund
2004 – 2008 Centennial Fellowship, Princeton University Graduate School
2007 – 2008 Princeton University Assistant in Research
2004 – 2007 NSF Graduate Research Fellowship

DISTINGUISHED LECTURES

208. Apr 2025 National Science Foundation Distinguished Lecture (cancelled/postponed)
207. Jul 2022 Invited Lecture at ICM 2022 (Section 3 Number Theory and Section 8 Analysis)
206. Jan 2019 AMS Invited Address, Joint Math Meetings 2019, Baltimore
205. Jun 2017 Nicolas Bourbaki seminar, Paris
204. Jan 2017 MAA Invited Address at the Joint Math Meetings 2017, Atlanta

PLENARY LECTURES

203. Mar 2025 Mid Atlantic Seminar On Numbers, Plenary Lecture
202. Sep 2024 Palmetto Number Theory Series XXXVIII (PANTS), Wake Forest, plenary lecture
201. Aug 2024 Grandes conférences publiques du CRM, Montreal
200. Aug 2024 Hedrick Lecturer, MathFest (2 lecture series)
199. Sep 2023 Plenary Lecture, AWM Research Symposium
198. Apr 2023 Chesley Lecturer, Carleton College
197. Apr 2022 AWM Distinguished Lecture, UMD
196. Apr 2021 McDougal Lecture, Lawrence University
195. Mar 2021 Sulski Lecture, Holy Cross
194. Feb 2021 Dressler Lecture, Kansas State
193. Jan 2021 IMA Plenary Lecture
192. Nov 2020 Number Theory Down Under
191. Apr 2019 Langford Lecture, Duke University
190. Apr 2019 Triangle Area Graduate Mathematics Conference
189. Mar 2019 Wake Forest University AWM Spring Conference
188. Mar 2019 goMATH plenary lecture, ETH
187. Jun 2016 Canadian Number Theory Association XIV, University of Calgary
186. Oct 2015 Southeastern Conference for Undergraduate Women in Mathematics, Duke University
185. Sep 2015 Heilbronn Institute for Mathematical Research, Annual Conference
184. Mar 2015 Southeast Analysis Meeting, UGA
183. Dec 2014 Palmetto Number Theory Series (PANTS XXIII) USC Columbia

COLLOQUIA

182. Mar 2025 Virginia Tech Colloquium
 181. Jun 2024 Heilbronn Colloquium, London (hosted by Imperial)
 180. Oct 2023 Helen Barton Lecture, UNC-G
 179. Oct 2021 UNC Colloquium
 178. Oct 2021 Claremont Colleges Colloquium
 177. Oct 2021 IST Colloquium (science-wide)
 176. May 2021 U. Oregon Colloquium
 175. Apr 2021 Berkeley Colloquium
 174. Feb 2021 Vanderbilt Colloquium
 173. Dec 2020 University of Chicago Colloquium
 172. July 2020 Göttingen Colloquium
 171. Jan 2020 UW Madison Colloquium
 170. Feb 2019 UW Madison Colloquium
 169. Feb 2019 Brown University Special Colloquium
 168. Dec 2018 UT Austin Colloquium
 167. Oct 2018 ETH Zürich, Special Lecture
 166. May 2018 University of Maryland Colloquium
 165. April 2018 Bryn Mawr Colloquium
 164. Dec 2017 Rutgers Colloquium
 163. May 2017 UCLA Distinguished Women in Math Colloquium
 162. Mar 2017 IU Colloquium
 161. Mar 2017 UW Madison Colloquium
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- 160. Jan 2017 Brown University Colloquium
 - 159. Dec 2016 Stony Brook University Colloquium
 - 158. Oct 2015 UC Boulder Kempner Colloquium
 - 157. May 2015 UT Austin Colloquium, Distinguished Women in Math series
 - 156. Jan 2014 Berlin Mathematical School Kovalevskaya Colloquium
 - 155. Jan 2014 University of Göttingen Colloquium
 - 154. Jan 2013 Caltech Colloquium
 - 153. Jan 2013 UIUC Colloquium
 - 152. Jan 2013 UW Madison Colloquium
 - 151. Dec 2012 UC Berkeley Colloquium
 - 150. Nov 2012 Indiana University at Bloomington Colloquium
 - 149. Apr 2010 Dartmouth Colloquium
 - 148. Jan 2010 UCSB Colloquium

INVITED CONFERENCES AND PRESENTATIONS

- 147. May 2025 Conference on Asymptotic Counting and L-Functions, MPIM Bonn
 - 146. Aug 2024 CRM Montreal “Analytic Number Theory and Arithmetic Statistics”
 - 145. Mar 2024 Institut Mittag-Leffler
 - 144. Dec 2023 Katz80 Monodromy and Its Applications, Princeton University
 - 143. Sep 2023 Excelsior Lectures, Northeast Analysis Network
 - 142. Jul 2023 RHB70 Conference, Oxford
 - 141. May 2023 Oberwolfach, Group Actions and Harmonic Analysis in Number Theory
 - 140. Apr 2023 Algebra and Number Theory Day, Johns Hopkins
 - 139. Apr 2023 Algebra, Arithmetic, Algorithms, ICMS Edinburgh
 - 138. Sep 2022 Uhlenbeck Conference, IAS
 - 137. Jul 2022 Oberwolfach: Real Analysis, Harmonic Analysis, and Applications
 - 136. Jun 2022 Fourier 200, ICMS Edinburgh
 - 135. Jun 2022 Harmonic Analysis and Related Topics, Centre de Recerca Matematica, Barcelona (remote)
 - 134. Jun 2022 CTNT
 - 133. Mar 2022 ETH GoMath
 - 132. Jan 2021 JMM AWM Research Symposium (WoAN)
 - 131. Nov 2020 AIM Delta Methods
 - 130. Oct 2020 AMS Eastern Sectional Number Theory
 - 129. Sep 2020 Oberwolfach, Automorphic Forms and Arithmetic
 - 128. Nov 2019 Oberwolfach, Analytic Number Theory
 - 127. Jul 2019 Analytic Number Theory, Cetraro, Italy
 - 126. May 2017 MSRI Recent Developments in Analytic Number Theory
 - 125. Nov 2016 Oberwolfach, Analytic Number Theory
 - 124. Jun 2015 Quantitative Arithmetic Geometry, Institut Mittag-Leffler
 - 123. Apr 2015 AWM Research Symposium, Special Section in Number Theory, U Maryland
 - 122. Dec 2014 CRM Montreal: New Approaches in Probabilistic and Multiplicative Number Theory
 - 121. Oct 2014 Clay Math Institute Workshop at Oxford: Analytic Number Theory
 - 120. Jul 2014 Oberwolfach: Real Analysis, Harmonic Analysis, and Applications
 - 119. Jun 2014 Bateman Number Theory Conference, Illinois
 - 118. May 2014 Humboldt University Berlin: Moduli and Automorphic Forms
 - 117. Mar 2014 Lausanne/Zürich Number Theory Days, ETH
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116. Nov 2013 Max Planck Institute Bonn/B-IT Workshop on Number Theory and Cryptography
 115. Oct 2013 Oberwolfach Workshop on Analytic Number Theory
 114. Jun 2013 FOUVRY60 Analytic Number Theory, Luminy, France
 113. Apr 2013 Denmark Mathematical Society 140th Anniversary
 112. Jan 2013 Number Theory Seminar, AWM Workshop, Joint Mathematics Meetings, San Diego
 111. Jun 2012 Analytic Methods for Diophantine Problems, Mathematisches Institut, Göttingen
 110. Jun 2011 Workshop on Oscillatory Integrals, Edinburgh
 109. Feb 2011 Harmonic Analysis Workshop, Edinburgh
 108. Nov 2010 Exponential Sums over Finite Fields and Applications, ETH Zürich
 107. Oct 2008 American Mathematical Society Sectional Conference, Vancouver BC
 106. Feb 2008 New Trends in Harmonic Analysis Conference, Fields Institute, Toronto, Canada
 105. Apr 2007 American Mathematical Society Sectional Conference, New Jersey
 104. Jun 2005 Gauss-Dirichlet Conference, Mathematisches Institut, Göttingen (contributed talk)
 103. May 2002 Program for Women in Mathematics, Institute for Advanced Study, Princeton

INVITED RESEARCH SEMINARS

102. Mar 2025 FiRST Seminar, Helsinki (Finnish Center of Excellence, Randomness and Structures)
 101. Mar 2025 Turku Number Theory Seminar
 100. May 2024 Analysis Seminar, Bonn
 99. Aug 2023 MPIM Number Theory Seminar
 98. Mar 2023 Harvard Number Theory seminar
 97. Apr 2022 ANU Analysis Seminar
 96. Dec 2021 UIUC Number Theory Seminar
 95. Jun 2021 Orsay Number Theory Seminar
 94. May 2021 UCL Number Theory Seminar
 93. May 2021 MIT Analysis Seminar
 92. Apr 2021 Berkeley-Caltech-Stanford Number Theory Seminar
 91. Apr 2021 NYU Number Theory Seminar
 90. Mar 2021 UCLA Analysis Seminar
 89. Feb 2021 Penn State Number Theory Seminar
 88. Feb 2021 University of Rochester Analysis Seminar
 87. Dec 2020 MIT Number Theory Seminar
 86. Dec 2020 UK Harmonic Analysis Seminar
 85. Jul 2020 Number Theory Web Seminar
 84. Jun 2020 U. Virginia Number Theory REU
 83. May 2020 CANTA opening celebration
 82. Jan 2020 VANTAGE Number Theory Seminar
 81. Dec 2019 Berkeley Number Theory Seminar
 80. Apr 2019 Boston University Number Theory Seminar
 79. Feb 2019 Harvard Number Theory Seminar
 78. May 2018 Princeton Number Theory Seminar
 77. Apr 2018 Princeton Analysis Seminar
 76. Mar 2018 IAS Analysis Seminar
 75. Jan 2018 IAS Members Seminar
 74. Mar 2017 U Michigan Number Theory Seminar
 73. Feb 2017 BC-MIT Number Theory Seminar
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72. Jan 2017 Emory Number Theory Seminar
 71. Jan 2017 UGA Discrete Analysis Seminar
 70. Dec 2016 Rutgers Seminar
 69. Dec 2016 Montreal Number Theory Seminar
 68. Dec 2016 Stanford Number Theory Seminar
 67. Oct 2016 UIC Number Theory Seminar
 66. Jul 2016 Max Planck Institute Number Theory Seminar, Bonn
 65. May 2016 IAS/Princeton Number Theory Seminar
 64. Jan 2016 Caltech/UCLA Analysis Seminar
 63. Jan 2016 Caltech Number Theory Seminar
 62. Oct 2015 UC Boulder Number Theory Seminar
 61. May 2015 Princeton University Analysis Seminar
 60. May 2015 UT Austin Analysis Seminar
 59. Feb 2015 UNC Chapel Hill Analysis Seminar
 58. Jan 2015 UW Madison Number Theory Seminar
 57. Feb 2014 Duke University Number Theory Seminar
 56. Dec 2013 Max Planck Institute, Bonn, Number Theory Seminar
 55. Dec 2013 University of Cologne Number Theory Seminar
 54. May 2013 Cambridge Discrete Analysis Seminar
 53. Jan 2013 UMinn Special Lecture
 52. Jan 2013 MIT Analysis Seminar
 51. Jan 2013 MIT Number Theory Seminar
 50. Jan 2013 McGill Special Lecture
 49. Dec 2012 Hausdorff Center for Mathematics, Bonn, Seminar
 48. Dec 2012 Rutgers University Seminar
 47. Dec 2012 UC Berkeley Number Theory Seminar
 46. Dec 2012 Washington University in St. Louis Seminar
 45. Nov 2012 UCSD Analysis Seminar
 44. Nov 2012 UCSD Number Theory Seminar
 43. Nov 2012 Georgia Tech Analysis Seminar
 42. Nov 2012 Warwick University Number Theory Seminar
 41. Oct 2012 Duke University Special Seminar
 40. Oct 2012 Reading University Analysis Seminar
 39. Jun 2012 University of Cologne Number Theory Seminar
 38. Jun 2011 Oxford OXPDE Analysis Seminar
 37. Apr 2011 UCLA Analysis Seminar
 36. Apr 2011 UCSD Analysis Seminar
 35. Apr 2011 Caltech Number Theory Seminar
 34. Mar 2011 University of Birmingham (England) Analysis Seminar
 33. Jan 2011 University of Bristol Analysis Seminar
 32. Dec 2010 University of Bristol Heilbronn Number Theory Seminar
 31. Dec 2010 University of Cardiff Analysis Seminar
 30. Nov 2010 UCL Pure Mathematics Seminar
 29. Apr 2010 Dartmouth Number Theory Seminar
 28. Apr 2010 MIT Number Theory Seminar
 27. Mar 2010 IAS Members Seminar, Institute for Advanced Study
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26. Oct 2009 IAS Short Talks by New Members, Institute for Advanced Study
25. Nov 2008 Brown University Analysis Seminar
24. Jun 2008 Oxford University Number Theory Seminar
23. May 2008 University of Wisconsin at Madison, Analysis Seminar
22. Apr 2008 Stony Brook University Analysis Seminar
21. Jan 2007 University of Bordeaux Number Theory Seminar
20. Apr 2006 Brown University Number Theory Seminar
19. Mar 2006 Ohio State University Number Theory Seminar
18. Jun 2005 Columbia University Number Theory Seminar
17. Apr 2005 UCLA Number Theory Seminar
16. Mar 2005 Caltech Number Theory Seminar
15. Mar 2005 University of Indiana at Bloomington Algebra Seminar
14. Mar 2005 University of Wisconsin at Madison Algebra and Number Theory Seminar
13. Feb 2005 Princeton University Seminar Course in Analysis
12. Dec 2004 Courant Institute Number Theory Seminar
11. Nov 2004 Royal Holloway College Pure Mathematics Seminar
10. Nov 2004 University of Michigan Number Theory Seminar
9. Jun 2004 Oxford University Number Theory Seminar

INVITED MINICOURSES

8. May 2026 New Directions in Modern Harmonic Analysis and Applications, Erdos Center of the Renyi Institute, Budapest (1 week) (upcoming)
7. May 2025 Advanced Course on Modern Aspects of Fourier Analysis, CRM Barcelona (1 week)
6. May 2023 Terng Lecture Course “The Circle Method,” Women and Mathematics, IAS (1 week)
5. May 2021 Applications of the circle method in harmonic analysis, HCM Bonn (1 week)
4. Jul 2019 Character sums, HCM Bonn (3 lectures)
3. Jan 2019 Trace Functions and their Applications, ETH Zürich in Monte Verità (1 week)
2. Jul 2011 Discrete Operators, Princeton Summer RTG Program in Analysis and Geometry (1 week)
1. Jun 2010 Binary Quadratic Forms, Princeton SWIM Summer Workshop in Mathematics (1 week)

PARTICIPATORY INVITED WORKSHOPS

- Feb 2021 AIM Workshop: Arithmetic statistics, discrete restriction, and Fourier analysis
- Nov 2020 AIM Workshop: Delta Methods
- May 2015 AIM Workshop: Carleson Theorems and Multilinear Operators (co-organizer)
- Nov 2014 AIM Workshop: Bounded Gaps between Primes
- Apr 2014 WIN3 Workshop on Number Theory, Banff (project co-leader)
- Oct 2006 AIM Workshop: Subconvexity bounds for L -functions
- Nov 2005 AIM Workshop: Gaps between primes

CONFERENCE FUNDING

- 2016 & 2017 NSA Conference Grants (c. 27,000 USD, PI)
- 2015 AIM Workshop funding (“Carleson Theorems and Multilinear Operators”)
- 2014 NSF Conference Grant DMS-1400237 (27,204 USD, Senior Personnel)
- 2014 Clay Mathematics Institute Conference Grant (20,120 USD, PI)
- 2014 Hausdorff Center for Mathematics Conference Grant (50,000 EUR, PI)
- Additional funding from Number Theory Foundation, Microsoft Research, and Duke University
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ORGANIZATION: CONFERENCES

July 2025 Oberwolfach: Real Analysis, Harmonic Analysis, and Applications
May 2025 The Next Horizon, Hausdorff Institute for Mathematics
Dec 2023 Monodromy and Applications, Princeton University
Oct 2023 GROW (Graduate Research Opportunities Workshop), Duke University
Jun 2023 Elias M. Stein Memorial Conference, Princeton University
Oct 2022 GROW (Graduate Research Opportunities Workshop), Duke University
May–Aug 2021 HIM Trimester (Bonn): Harmonic Analysis and Analytic Number Theory
2020 “A room of one’s own” writing intensive
2019 Special session “Counting methods in number theory,” JMM 2019
2017 re:boot Number Theory 2017, Duke University
2017 Connections Workshop (Analytic Number Theory), MSRI
2016 re:boot Number Theory 2016, Duke University
2015 AIM Workshop: Carleson Theorems and Multilinear Operators
2014 ELEFANT workshop, Hausdorff Center for Mathematics, Bonn
2014 ENFANT workshop, Hausdorff Center for Mathematics, Bonn
2012 Oxford Number Theory Day (research retreat), Oxford University

ORGANIZATION: SEMINARS AND SUMMER SCHOOLS

2024 Bonn Hausdorff Summer School: Maximal Operators and Applications
2024 Bonn Hausdorff Summer School: Stability and Uniformity of Oscillatory Integral Estimates
2021 Bonn Hausdorff Summer School: Polynomial Methods
2021 Bonn Hausdorff Summer School: The Circle Method, entering its second century
2018 Bonn Hausdorff Summer School on L -functions
2018 AMS-MRC Harmonic Analysis: New Developments in Oscillatory Integrals
2014 Co-organizer of 6th EWM/EMS Summer School on Apollonian Circle Packings
2014 Co-organizer of Analysis School/Block Course at University of Bonn (with Thiele)
2009 – 2010 Co-organizer of Postdoc Learning Group, Institute for Advanced Study
2008 & 2009 Scientific Coordinator for Princeton Summer Program in Analysis and Geometry
2008 Advising Committee for SWIM Summer Workshop in Mathematics, Princeton

SERVICE: NATIONAL AND INSTITUTE COMMITTEES (selected)

2023 – present, Scientific Advisory Council, SLMath (formerly MSRI)
2022 – 2029, Scientific Advisory Board, FiRST Center for Excellence, Finland
2020 – present, Number Theory Foundation
2014 – present, Program Committee, Women and Math, Institute for Advanced Study
2018 – 2025, Diversity Committee, Institute for Advanced Study
2020 – 2022, Scientific Advisory Board, BIRS
2019 – 2022 AMS Southeastern Section Program Committee
2018 – 2021 Current Events Bulletin Committee (associated to MSRI)
2016 – 2019 AMS Committee on Women in Mathematics
2016 National Summit Meeting on Women in Mathematics, Northwestern University
2011 – 2013 Good Practices Steering Group, Mathematical Institute, Oxford (Athena SWAN application)

SERVICE: GRANT, PRIZE AND FELLOWSHIP PANELS (selected)

Other advisory and evaluative roles, anonymous at present
Rhodes Scholarship Selection Committee
Elias M. Stein Prizes, AMS

AWM-Microsoft Prize, AWM
Schmidt Science Fellows
Karen EDGE Fellowship Program
National Science Foundation
National Security Agency Mathematical Sciences Program
ETH Zürich fellowship review (Switzerland)
BIRS Conference Proposals (Canada)
EPSRC (EU)
NSERC (Canada)
DFG (Germany) U.S.-Israel Binational Science Foundation

SERVICE: TO DUKE MATH (selected)

2019 – present, Distinguished Lecture organizer
2019 – 2023, Society for Women in Science, Duke University (founded lunchtime seminar series)
2022 – present, ORCID Scholars organizer
2022 – 2023 WiMsical lunchtime series organizer
2020 – 2021, Centennial Task Force, Duke University
2017 – 2018, Faculty committee for Duke Mathematical Sciences Sabbatical Fellows
2016 – 2017 Elliott Assistant Research Professor hiring committee
2015 Faculty committee for SWIM Summer Workshop in Mathematics, Duke
2014 – 2017 Steering committee for colloquium series “Natural Sciences in the 21st Century,” Duke
2015 – 2016 Quantitative Initiative hiring committee
2014 – 2015 Elliott Assistant Research Professor hiring committee

SERVICE: REFEREEING (selected)**Referee book manuscripts for publishers:**

Cambridge University Press, Princeton University Press, Birkhäuser/Springer

Referee for journals including:

Inventiones, American Journal of Mathematics, Compositio Mathematica, Duke Mathematical Journal, IMRN, Mathematical Research Letters, J. Reine Angew. Math. (Crelle), Proceedings of the AMS, Proceedings of the London Mathematical Society, Bulletin of the London Mathematical Society, Journal of Number Theory, Math. Annalen, Math. Proc. Cam. Phil. Soc., Mathematika, Michigan Mathematical Journal, Oxford Quarterly Journal of Mathematics, Acta Arithmetica, Research in Number Theory, Functiones et Approximatio, Journal of Mathematical Analysis and Applications

ADDITIONAL RESEARCH EXPERIENCE

2003 – 2008 Consultant, Center for Communications Research, La Jolla/Princeton
2003 SCAMP Summer Research, Center for Communications Research, La Jolla
2002 Graduate Mathematics Program, National Security Agency
2000 Director’s Summer Program, National Security Agency

TEACHING RECOGNITION

2018 – present, Bass Society of Fellows, Duke University
(selective fellowship awarded for excellence in research and undergraduate teaching)
2018 – 2023, Bass Chair
(one of a set of honorific positions; specifically the Nicholas J. and Theresa M. Leonardy chair, awarded for excellence in research and undergraduate teaching)

2009 Princeton University APGA Award
(university-wide award for teaching by a Graduate Student)

POSTDOCTORAL RESEARCH ADVISING

2023 – 2025, Duke University, D. Bonolis (currently: TU Graz)
2022 – 2024, Duke University, E. Jones (currently: Tulane)
2018 – 2019 Duke University: J. Wang, Foerster-Bernstein Fellow (currently: U. Georgia)
2015 – 2018 Duke University: C. Turnage-Butterbaugh (currently: Carleton College)
2013 – 2015 University of Bonn: D. Schindler (currently: Göttingen)

GRADUATE RESEARCH ADVISING (PhD advisor)

beginning student: Alina Zhu
2025 PhD: Rena Chu (Duke University), first position: Göttingen
2021 PhD Chen An (Duke University), first position: JP Morgan

UNDERGRADUATE RESEARCH ADVISING (Independent study courses)

2023 Marie-Hélène Tome (1 independent study course, Goldwater Scholar, Marshall Scholar)
2023 Hiba Benjeddou (1 independent study course)
2022–2023 Alex Burgin (senior thesis, 2 independent study courses)
2022 Rebecca Bell (1 independent study course)
2021 Craig Chen (1 independent study course)
2015 Runliang (Oscar) Li (summer research fellowship)

PhD THESIS COMMITTEES

2023 I. Viglino, student of E. Kowalski, ETH
2020 H. T. Tran, student of Jacye Getz, Duke University
2018 K. McKeon, student of A. Kontorovich, Rutgers University
2016 D. Milovic, student of E. Fouvry and P. Stevenhagen, Orsay and Leiden
2014 R. Alaifari, student of I. Daubechies and M. Defrise, Vrije Universiteit Brussel

PhD PRELIM EXAM COMMITTEES

2023 Kairie Black, Duke University
2023 Rena Chu, Duke University
2019 Chen An, Duke University

PhD ORAL QUALIFYING EXAM COMMITTEES

2020 Chun-Hsien Hsu, Oral Quals Exam, Duke University
2016 Zhe Wang, Oral Quals Exam, Duke University
2016 Kevin Stubbs, Oral Quals Exam, Duke University
2016 Huong (Thomas) Tran, Oral Quals Duke University

SERVICE TO DUKE UNIVERSITY (related to undergraduate education)

2022 – 2024 university-wide Trinity Curriculum Development Committee
(2 year committee to redesign the required undergraduate curriculum, university-wide)
2021 – 2023, Faculty Director, AB Duke Scholars
(director of most selective merit scholarship at Duke)
2020 Director of Focus program “What If?”
(a selective living-learning community for first-year university students)
2014 – 2017 Faculty in Residence

(living full-time in dorm with 180 freshmen, for 3 years)

2014 – 2017 Academic Advisor to pre-major students, Duke University

2016 Faculty instructor for a Duke FOCUS living-learning program for freshmen

SERVICE: MENTORING

2019 – 2023 Faculty advisor, local AWM student chapter, Duke University

2015 – 2017 WIMsical math community initiative program, Duke University

2013 Mathematrix (discussion group), University of Oxford

2006 – 2009 Mentoring Möbius, Founder and Organizer, Princeton University

2007 – 2009 “The Many Faces of Science at Princeton,” Founder and Organizer

2006 – 2009 Noetherian Ring, Princeton University, Co-organizer of networking group

2005 – 2009 Graduate Fellow, Rockefeller College, Princeton University

2006 – 2009 Major Choices Dinners, Princeton University, Organizer

2001 – 2002 Noetherian Ring, Princeton University, undergraduate math mentor

2000 – 2001 Peer Instructor for Princeton University in math, general and organic chemistry

OUTREACH: EXPOSITORY TALKS TO MATH AUDIENCES

20. Jun 2025: Public Lecture “Invisible cities”, HCM Bonn

19. May 2025: Public Lecture “What we talk about when we talk about math”, HCM Bonn

18. Apr 2025 Duke Math “What is....” Seminar series

17. Jun 2023 REU Seminar, UVA

16. Apr 2023 Undergraduate Colloquium, Carleton College

15. Apr 2023 Duke University Music Department, Ou-X-Po Seminar

14. Jul 2022 PRIMES REU research seminar

13. Jun 2022 Small REU research seminar

12. Jun 2022 UVA REU research seminar

11. Aug 2021 Young Mathematicians Conference

10. May 2021 Women in Math in the time of COVID, UC Davis

9. Mar 2021 Women in Math in the time of COVID, CMS Montreal

8. May 2019 National Math Festival featured speaker, Washington DC

7. Feb 2018 Mathematical Conversations, IAS

6. Aug 2015 guest speaker at Wake Forest University REU

5. Oct 2014 Grad/Faculty Seminar, Duke University

4. Jun 2013 Junior Number Theory Seminar, Oxford University

3. Mar 2013 Junior Number Theory Seminar, Oxford University

2. Oct 2012 Junior Number Theory Seminar, Oxford University

1. Jan 2011 Junior Number Theory Seminar, Oxford University

OUTREACH: SPEAKING

Jun 2024 Invited Panel Moderator, Sarnak70, Princeton/IAS

Nov 2023 Meet a Mathematician, MoMath

Mar 2021 Meet a mathematician, MoMath

Oct 2016 GROW at Northwestern: Panel discussion on mathematical research

Jun 2016 Faculty guest, discussion with high school girls at SWIM program, Duke

May 2016 “Mentoring in mathematics,” Women and Math Program at the IAS

May 2015 “The math culture and social psychology,” Women and Math Program at the IAS

Nov 2012 Welcome event for female graduate students, University of Oxford

Apr 2012 Invited speaker, Rhodes Scholars Women's Group, University of Oxford
May 2011 Conference in Honor of Eli Stein's 80th Birthday, Princeton, (panel discussion co-moderator)
May 2010 Program for Women in Mathematics, Institute for Advanced Study (panel discussion)
May 2008 Guest speaker, Princeton High School, Princeton, New Jersey
2002 Guest lecturer, Robert Moses Algebra Project for inner-city youth, Cambridge Massachusetts.

OUTREACH: WRITING

2020 *Paths* project https://services.math.duke.edu/~pierce/graphics/Paths_2020_Pierce.pdf
2017 *Notices of the AMS* Graduate Student Section, Lillian Pierce Interview, **64** (10) (2017) 1170–1172.
2014–2020 Mathematics + Motherhood interviews in *Newsletter* of the AWM
2013 Mathematics+Motherhood, *Fine Letters*, Princeton University Math Department newsletter
2012 “Mentoring, collaborating, and writing books: A discussion on the inspirational role of Eli Stein”
Fine Letters, Princeton University Math Department newsletter, Spring 2012
2010 Interview for *Girls' Angle Bulletin* (August & October 2010 issues)

OUTREACH: EARLY EDUCATION

2022–2025: Leader of small math clubs (over 40 events) for select elementary students (Numbers Club), middle school students (math e , math π), high school students (math c)
2019 “Math and music,” 5th grade enrichment event in Chapel Hill public school
2018 “Codes and Secrets!” 4th grade math event at Chapel Hill public school
2016 Keynote speaker at FEMMES, Duke (240 school children in STEM, grades 4-6)
2016 Numbers Club meetings for small groups of children aged 5 or 7 (Pentagons and Heptagons)
2016 “Codes and Secrets!” math event at Watts Montessori Public School, Durham (grades 1–3)
2016 “One grain of rice: exponential growth” math event at Watts Montessori Public School, Durham
