Micah B. Milinovich

Personal

US Citizen (Born: Sauk County, Wisconsin USA).

Education

May 2008 PhD in Mathematics, University of Rochester, Adviser: Steven M. Gonek.May 2001 BA in Mathematics, summa cum laude, University of Rochester.

Employment

2014-present Associate Professor, Department of Mathematics, University of Mississippi.
 2008-2014 Assistant Professor, Department of Mathematics, University of Mississippi.

Publications

- 14. A note on the zeros of zeta and *L*-functions. with E. Carneiro and V. Chandee, *Mathematische Zeitschrift*, to appear.
- 13. Hilbert spaces and the pair correlation of zeros of the Riemann zeta-function. with E. Carneiro, V. Chandee, F. Littmann, J. Reine Angew. Math. (Crelle's J.), to appear.
- 12. A hybrid Euler-Hadamard product and moments of $\zeta'(\rho)$. with H. M. Bui and S. M. Gonek, *Forum Math.*, to appear.
- Simple zeros of modular *L*-functions. with N. Ng, *Proc. London Math. Soc.*, **109** (2014), no. 6, 1465–1506.
- 10. Lower bounds for moments of $\zeta'(\rho)$. with N. Ng, Int. Math. Res. Notices, (2014), no. 12, 3190–3216.
- Moments of products of automorphic L-functions. with C. L. Turnage-Butterbaugh, J. Number Theory, 139 (2014), 175–204.
- 8. On Balazard, Saias, and Yor's equivalence to the Riemann Hypothesis. with H. M. Bui and S. J. Lester, J. Math. Anal. Appl., **409** (2014), no. 1, 244–253.
- 7. Bounding S(t) and $S_1(t)$ on the Riemann hypothesis. with E. Carneiro and V. Chandee, *Mathematische Annalen*, **356** (2013), no. 3, 939–968.
- A note on simple a-points of L-functions. with S. J. Lester and S. M. Gonek, Proc. Amer. Math. Soc., 140 (2012), no. 12, 4097–4103.
- 5. A note on a conjecture of Gonek. with N. Ng, Funct. Approx. Comment. Math., 46 (2012), no. 2, 177–187.
- 4. Moments of the Riemann zeta-function at its relative extrema on the critical line. *Bull. London Math. Soc.*, **43** (2011), no. 6, pp. 1119–1129.

- Central values of derivatives of Dirichlet L-functions. with H. M. Bui, Int. J. Number Theory, 7 (2011), no. 2, pp. 371–388.
- 2. A note on the gaps between consecutive zeros of the Riemann zeta-function. with H. M. Bui and N. Ng, *Proc. Amer. Math. Soc.*, **138** (2010), no. 12, pp. 4167–4175.
- 1. Upper bounds for moments of $\zeta'(\rho)$. Bull. London Math. Soc., 42 (2010), no. 1, pp. 28–44.

Research Funding & Awards

- 2015–2017 NSA Young Investigator Grant H98230-15-1-0231, \$40,000.
- 2013–2015 NSA Young Investigator Grant H98230-13-1-0217, \$40,000.
 - 2015 Research in Teams at BIRS, co-PI with Andrew Booker and Nathan Ng.
 - 2014 SEC Faculty Travel Grant, hosted by University of Georgia.
- 2011–2013 AMS–Simons Travel Grant.
- 2012–2013 MRC Collaboration Grant, co-PI with Maksym Radziwiłł. Sponsored by AMS/NSF.
- 2009–2012 University of Mississippi College of Liberal Arts Summer Research Grant, Awarded every year eligible: 2009, 2010 & 2012.
- 2007–2008 Supported by NSF grant DMS 0653809, PI: Steven M. Gonek.
- 2005–2007 Supported by NSF FRG grant DMS 0244660. PIs: David W. Farmer, Hugh L. Montgomery, and Steven M. Gonek
 - 2001 Arthur Gale Award, Department of Mathematics, University of Rochester. Most outstanding graduating senior in mathematics
 - 2000 Phi Beta Kappa, junior year inductee.
- 1997–2001 Rush Rhees Scholarship, University of Rochester.
- 1997–2001 Bausch & Lomb Scholarship, University of Rochester.

Invited Research Visits

- \diamond ICERM Workshop: Computational Aspects of L-functions, Nov. 2015 (upcoming).
- \diamond IMPA, Rio de Janeiro, Brazil, two occasions: Aug. 2013 & June 2015 (upcoming).
- \diamond Banff International Research Station, Research in Teams (tenative): May 2015.
- ◊ AIM Workshop: Bounded gaps between primes, Palo Alto, CA, Nov. 2014.
- ◊ Department of Mathematics, University of Bristol, May 2014.
- ◊ Department of Mathematics, University of Georgia, April 2014.
- ◊ CRM, Université de Montréal, two occasions: Nov. 2012 & July 2013.
- ◊ Institut für Mathematik, Universität Zürich, May 2012.
- ♦ Department of Mathematics & Computer Science, University of Lethbridge.
- Multiple occasions: June 2009, March 2010 & June 2012.
- ♦ Department of Mathematics, University of Rochester, Summer 2009.
- ◊ Department of Mathematics, University of Ottawa, November 2006.
- ◊ Isaac Newton Institute, University of Cambridge, April, June & July 2004.

Long-stay participant for the programme: Random Matrix approaches in Number Theory.

Conferences Organized

	Modern Methods in Analytic Number Theory. Special session: AMS Southeastern Sectional Meeting, Oxford, MS. Co-organized with Nathan Jones and Frank Thorne.
Jan. 2012	New Perspectives in Multiplicative Number Theory. Special session: AMS-MAA Joint Meetings, Boston, MA. Co-organized with Leo Goldmakher, Jonathan Kish, and Paul Pollack.
	Selected Research Talks
Fall 2015	Number Theory Seminar, University of Illinois at Chicago (tentative).
June 2015	International Conference in Number Theory & Physics, invited speaker. IMPA, Rio de Janeiro, Brazil (upcoming)
March 2015	Number Theory and Representation Theory Seminar, University of Missouri, Columbia.
Jan. 2015	Department of Mathematics Colloquium, University of Rochester.
June 2014	Conference in memory of the Batemans and Heini Halberstam, University of Illinois.
May 2014	Heilbronn Seminar, University of Bristol.
April 2014	Number Theory Seminar, University of Georgia.
Feb. 2014	Number Theory Seminar, Ohio State University.
Aug. 2013	Analysis Seminar, IMPA, Rio de Janeiro, Brazil.
Nov. 2012	Québec-Vermont Number Theory Seminar, Concordia University (90 minute talk).
Oct. 2012	Number Theory Seminar, Ohio State University.
Sept. 2012	Special session on Analytic Number Theory, invited speaker. Fall Eastern AMS Sectional Meeting, RIT University.
June 2012	Canadian Number Theory Association XII Meeting, University of Lethbridge.
July 2011	The Pretentious View of Analytic Number Theory. AMS Mathematics Research Community, Snowbird Resort, Utah.
June 2011	Analytic Aspects of L-functions and Applications to Number Theory. University of Calgary
Feb. 2011	Palemetto Number Theory Series XV, Clemson University.
May 2010	Illinois Number Theory Conference 2010, University of Illinois.
Mar. 2010	Mathematics & Computer Science Colloquium, University of Lethbridge.
Mar. 2010	Number Theory & Combinatorics Seminar, University of Lethbridge.
Feb. 2010	Palemetto Number Theory Series XII, Clemson University.
Nov. 2009	<i>RH Day presentation</i> , University of Mississippi. Organized by the American Institute of Mathematics.
July 2009	Mathematics & Computer Science Colloquium, University of Lethbridge.
Mar. 2009	Ergodic & Number Theory Seminar, University of Memphis.
Oct. 2008	Number Theory Seminar, Texas A&M University.
Sept. 2007	Maine/Québec Number Theory Conference, University of Maine.
May 2007	Number Theory Fest, University of Illinois.

Nov. 2006 Carleton-Ottawa Number Theory Seminar, University of Ottawa.

Graduate Student Supervision

> **Zhenchao Ge,** MS in Mathematics, *expected* in May 2015. \diamond Current position: Ph.D. student, Department of Mathematics, University of Mississippi.

- PhD theses: Caroline L. Turnage-Butterbaugh, PhD in Mathematics, May 2014. *Current position*: William W. Elliott Research Assistant Professor, Duke University, 2015 2018
 GAANN fellow, Class Marshal, and recipient of a Graduate Student Achievement Award.
 Undergraduate Research Mentor, SMALL program, Williams College, Summers 2014 & 2015.
 - ♦ Postdoctoral Fellow, North Dakota State University, Fall 2014 Spring 2015.

Teaching Experience

- 2008–present University of Mississippi (two courses per semester).
 - ♦ Calculus sequence (including Honors College sections).
 - ♦ Math 459 Introduction to Complex Analysis (undergraduate).
 - ♦ Math 513 Theory of Numbers, I (undergraduate/Master's level).
 - ♦ Math 514 Theory of Numbers, II (undergraduate/Master's level).
 - \diamond Math 625 Abstract Algebra, I (graduate).
 - \diamond Math 626 Abstract Algebra, II (graduate).
 - \diamond Math 655 Theory of Functions of a Complex Variable, I (graduate).
 - \diamond Math 656 Theory of Functions of a Complex Variable, II (graduate).
 - \diamond Math 597/697/797 Reading courses in Number Theory.

 - 01/2003 Oliver Wendall Holmes M.S. (IS 204), Long Island City, Queens, NY.
 - 06/2003 \diamond Mathematics Instructor: Title I (Improving the Academic Achievement of the Disadvantaged).

Service to the Profession

- 2003-present Member of the American Mathematical Society (AMS).
 - Referee: Proceedings of the London Mathematical Society, Algebra & Number Theory, Proceedings of the American Mathematical Society, Bulletin of the London Mathematical Society, Proceedings of the Royal Society A, Acta Arithmetica, Journal of Number Theory,* International Journal of Number Theory,* Journal de théorie des nombres de Bordeaux, Mathematics of Computation, Journal of Mathematical Analysis and Applications,* Central European Journal of Mathematics, American Mathematical Monthly, Annales Polonici Mathematici, Nonlinear Analysis Series B. * multiple articles
 - Reviewer: Mathematical Reviews (MathSciNet).
 - Reviewer: Grant proposal, Academic Research Fund, Ministry of Education, Singapore.

Service to the University

- 2008–present Co-organizer: Ole Miss Algebra & Number Theory Seminar.
- 2009–2011 Co-organizer and exam writer: Ole Miss High School Math Contest.
- 2009–2011 Member of Ole Miss Department of Mathematics PhD procedure committee.
- 2011–present Member of Ole Miss Department of Mathematics awards committee.
- 2010–present Undergraduate advising.
- 2013–present Member of the University of Mississippi ALLIES program.
 - Hiring Committee, Two occasions: 2014-2015 chair, 2013-2014 member.
 - Fall 2014 Interim Faculty Advisor for University of Mississippi AMS Grad Student Chapter.

MS oral defense committee member: Mary Margaret Boudreaux, Brenda Canoy, Daniel Chaussé, Travis Dirle, Brad Farrow, Paige Gillentine, Milisha Hart, Cody Harville, Jim Henegan, Robert Henry, Kelvin Holmes, Thomas Koslowski, Wei Liao, Janet Nakarmi, Julie Riales, Xiaoming Xu, Liangyu Yao (mathematics).

MS thesis defense committee member: Mike Azlin, Lisa Ewell (mathematics).

PhD & Prospectus exam committee: Caroline Turnage-Butterbaugh (mathematics), Arif Mohd (physics), Preet Sharma (physics).

Prospectus exam committee: Byunghoon Lee (mathematics).

Wrote and graded ME subject exam: Jessica Ivy, Julie James (school of education).

Wrote and graded mathematical portion of doctoral comprehensive exam: Paige Gillentine (school of education).

Wrote and graded Complex Analysis comprehensive exam: 8/2012, 1/2014, 8/2014, 1/2015.

Co-wrote Algebra comprehensive exam: 1/2015.

References

Steven M. Gonek (Adviser), Professor of Mathematics, University of Rochester. gonek@math.rochester.edu

Kannan Soundararajan, Professor of Mathematics, Stanford University. ksound@math.stanford.edu

J. Brian Conrey, Executive Director of the American Institute of Mathematics and Professor of Mathematics, University of Bristol. conrey@aimath.org

- Jeffrey Vaaler, Professor of Mathematics, University of Texas. vaaler@math.utexas.edu
- Daniel A. Goldston, Professor of Mathematics, San Jose State University. goldston@math.sjsu.edu

William Staton (Teaching), Professor Emeritus, University of Mississippi. mmstaton@olemiss.edu

Last updated: March 29, 2015