

Djordje Milićević

Bryn Mawr College
Department of Mathematics
Park Science Center
101 North Merion Avenue
Bryn Mawr, Pennsylvania 19010-2899

Office: PSC 362
Phone: (610) 526-5354
Fax: (610) 526-6575

email: dmilicevic@brynmawr.edu
url: <http://www.brynmawr.edu/math/people/milicevic/>

Current position

2018- *Associate Professor*, Bryn Mawr College
2021- Director of Graduate Studies in Mathematics, Bryn Mawr College

Areas of specialization

Analysis on Arithmetic Manifolds, Automorphic Forms, Analytic Number Theory

Appointments held

2023- *Professor*, Bryn Mawr College (upcoming)

2020 Guest/Research Fellow, Max-Planck-Institut für Mathematik, Bonn, Germany
2012-2018 Assistant Professor (tenure-track), Bryn Mawr College
2016 Guest/Research Fellow, Max-Planck-Institut für Mathematik, Bonn, Germany
2015-2016 Research Visitor, University of Melbourne, Australia
2011-2012 Guest/Research Fellow, Max-Planck-Institut für Mathematik, Bonn, Germany
2010-2011 Visiting Assistant Professor, Amherst College
2006-2010 T.H.Hildebrandt Research Professor/Assistant Professor, University of Michigan
2006 Clay Liftoff Fellow, Clay Mathematics Institute
2002-2006 Assistant in Research and Instruction, Princeton University
2000-2001 Assistant in Teaching and Research, Faculty of Mathematics, University of Belgrade

Education

- 2001-2006 Ph.D. in Mathematics, Princeton University (advisor: Peter Sarnak)
1996-2000 Dipl.Mat., Faculty of Mathematics, University of Belgrade, valedictorian
1992-1996 Mathematics High School in Belgrade, valedictorian, best student of the first 30 classes

Invited research visits

- 2023 Mathematisches Forschungsinstitut Oberwolfach, “Group Actions and Harmonic Analysis in Number Theory”
2020 Mathematisches Forschungsinstitut Oberwolfach, “Automorphic Forms and Arithmetic” (virtual)
2018 Director’s Mathematician in Residence, Budapest Semesters in Mathematics
2017 Mathematisches Forschungsinstitut Oberwolfach, “Automorphic Forms and Arithmetic”
2017 Institute for Advanced Study, Princeton
2016 Texas A&M University at Qatar
'12,13,14,16 Georg-August-Universität Göttingen, Germany
2012,14 Institut Galilé, Université Paris 13, France
'08,12,18 Alfréd Rényi Institute of Mathematics, Hungarian Academy of Sciences
2011 Mathematisches Forschungsinstitut Oberwolfach, “The Analytic Theory of Automorphic Forms”
2011 École Polytechnique Fédérale de Lausanne, “Group Actions in Number Theory” semester
2010 Centre de Recherches Mathématiques and McGill University, Montréal
'09,10,11 University of Illinois at Chicago
2006 Centre de Recherches Mathématiques, Montréal
2000 Moscow State University, Faculty of Mathematics and Mechanics, student research
1998 Weizmann Institute of Science, Rehovot, Israel, summer research in the Karin Kupcinet International Summer School

Publications & talks

Journal articles

ORCID iD: [0000-0003-2422-8416](https://orcid.org/0000-0003-2422-8416), MR Author ID: [915372](https://www.ams.org/mathscinet?id=915372), arXiv: [milicevic_d_1](https://arxiv.org/author/index?author=milicevic_d_1)

- 2023 Valentin Blomer, Étienne Fouvry, Emmanuel Kowalski, Philippe Michel, Djordje Milićević, Will Sawin, “The second moment theory of families of L -functions”, *Memoirs of the American Mathematical Society* 282 (2023), no. 1394, v+148 pp. ISBN:978-1-4704-5678-8 (print); 978-1-4704-7350-1 (online). DOI:[10.1090/memo/1394](https://doi.org/10.1090/memo/1394), arXiv:[1804.01450](https://arxiv.org/abs/1804.01450).
2023 Lindsay Dever, Djordje Milićević, “Ambient prime geodesic theorems on hyperbolic 3-manifolds”, *International Mathematics Research Notices IMRN* 2023:1 (2023): 588–635. DOI:[10.1093/imrn/rnab048](https://doi.org/10.1093/imrn/rnab048), arXiv:[2004.11774](https://arxiv.org/abs/2004.11774).
2022 Valentin Blomer, Gergely Harcos, Péter Maga, Djordje Milićević, “Beyond the spherical sup-norm problem”, *Journal de Mathématiques Pures et Appliquées* 168 (2022): 1–64. DOI:[10.1016/j.matpur.2022.09.009](https://doi.org/10.1016/j.matpur.2022.09.009), arXiv:[2107.05973](https://arxiv.org/abs/2107.05973).
2022 Rizwanur Khan, Djordje Milićević, Hieu T. Ngô, “Nonvanishing of Dirichlet

- L -functions. II”, *Mathematische Zeitschrift* 300 (2022): 1603–1613.
 DOI:10.1007/s00209-021-02821-8, arXiv:1911.10268.
- 2021 Djordje Milićević, Daniel White, “Twelfth moment of Dirichlet L -functions to prime power moduli”, *Annali della Scuola Normale Superiore di Pisa, Classe di Scienze (5) XXII*:4 (2021): 1879–1898.
 DOI:10.2422/2036-2145.201909_008, arXiv:1908.04833.
- 2020 Valentin Blomer, Gergely Harcos, Péter Maga, Djordje Milićević, “The sup-norm problem for $GL(2)$ over number fields”, *Journal of the European Mathematical Society* 22:1 (2020): 1–53.
 DOI:10.4171/JEMS/916, arXiv:1605.09360.
- 2017 Valentin Blomer, Étienne Fouvry, Emmanuel Kowalski, Philippe Michel, Djordje Milićević, “On moments of twisted L -functions”, *American Journal of Mathematics* 139:3 (2017): 707–768.
 DOI:10.1353/ajm.2017.0019, arXiv:1411.4467.
- 2017 Valentin Blomer, Étienne Fouvry, Emmanuel Kowalski, Philippe Michel, Djordje Milićević, “Some applications of smooth bilinear forms with Kloosterman sums”, *Proceedings of the Steklov Institute of Mathematics* 296:1 (2017): 18–29.
 DOI:10.1134/S0081543817010023, arXiv:1604.07664.
- 2016 Rizwanur Khan, Djordje Milićević, Hieu T. Ngô, “Non-vanishing of Dirichlet L -functions in Galois orbits”, *International Mathematics Research Notices IMRN* 2016:22 (2016): 6955–6978.
 DOI:10.1093/imrn/rnv320, arXiv:1507.00111.
- 2016 Djordje Milićević, “Sub-Weyl subconvexity for Dirichlet L -functions to prime power moduli”, *Compositio Mathematica* 152:4 (2016): 825–875.
 DOI:10.1112/S0010437X15007381, arXiv:1407.4100.
- 2016 Valentin Blomer, Gergely Harcos, Djordje Milićević, “Bounds for eigenforms on arithmetic hyperbolic 3-manifolds”, *Duke Mathematical Journal* 165:4 (2016): 625–659.
 DOI:10.1215/00127094-3166952, arXiv:1401.5154.
- 2015 Valentin Blomer, Djordje Milićević, “ p -adic analytic twists and strong subconvexity”, *Annales scientifiques de l’École normale supérieure* 48:3 (2015): 561–605.
 DOI:10.24033/asens.2252.
- 2015 Valentin Blomer, Djordje Milićević, “The second moment of twisted modular L -functions”, *Geometric and Functional Analysis (GAFA)* 25:2 (2015): 453–516.
 DOI:10.1007/s00039-015-0318-7, arXiv:1404.7845.
- 2015 Valentin Blomer, Djordje Milićević, “Kloosterman sums in residue classes”, *Journal of the European Mathematical Society* 17:1 (2015): 51–69.
 DOI:10.4171/JEMS/498, arXiv:1410.4538.
- 2011 Djordje Milićević, “Large values of eigenfunctions on arithmetic hyperbolic 3-manifolds”, *Geometric and Functional Analysis (GAFA)* 21:6 (2011): 1375–1418.
 DOI:10.1007/s00039-011-0144-5.
- 2010 Djordje Milićević, “Large values of eigenfunctions on arithmetic hyperbolic surfaces”, *Duke Mathematical Journal* 155:2 (2010): 365–401.
 DOI:10.1215/00127094-2010-058.
- 2018+ Farrell Brumley, Djordje Milićević, “Counting cusp forms by analytic conductor”, to

appear in the *Annales scientifiques de l'École normale supérieure*, [arXiv:1805.00633](https://arxiv.org/abs/1805.00633).
2020+ Mikołaj Frączyk, Gergely Harcos, Péter Maga, Djordje Milićević, “The density hypothesis for horizontal families of lattices”, to appear in the *American Journal of Mathematics*, [arXiv:2007.13961](https://arxiv.org/abs/2007.13961).

2021 Farrell Brumley, Didier Lesesvre, Djordje Milićević, “Conductor zeta function for the $GL(2)$ universal family”, [arXiv:2105.02068](https://arxiv.org/abs/2105.02068).
Djordje Milićević, “The explicit Hardy-Littlewood-Atkinson formula in number fields”, preprint.

Articles with students

2023 Djordje Milićević, Sichen Zhang, “Distribution of Kloosterman paths to high prime power moduli”, *Transactions of the American Mathematical Society, Series B* 10 (2023): 636–669.

[DOI:10.1090/btran/98](https://doi.org/10.1090/btran/98), [arXiv:2005.08865](https://arxiv.org/abs/2005.08865).

2019 Rizwanur Khan, Ruoyun Lei, Djordje Milićević, “Effective moments of Dirichlet L -functions in Galois orbits”, *Involve, a Journal of Mathematics* 12-3 (2019): 475–490.

[DOI:10.2140/involve.2019.12.475](https://doi.org/10.2140/involve.2019.12.475).

2017 Yujie Li, Djordje Milićević, “ p -adic sextic supercongruences of Ramanujan type”.

Talks

2023 Number Theory Web Seminar (upcoming)

2023 Mathematisches Forschungsinstitut Oberwolfach, “Group Actions and Harmonic Analysis in Number Theory”

2022 Philadelphia Area Number Theory Seminar (2x)

2022 Automorphic Forms Conference, Erdős Center, Alfréd Rényi Institute of Mathematics

2021 Pennsylvania State University, Algebra and Number Theory Seminar

2021 Philadelphia Area Number Theory Seminar

2020 Rheinische Friedrich-Wilhelms-Universität Bonn, Oberseminar Analytic Number Theory (online)

2020 Max-Planck-Institut für Mathematik, Bonn, Number Theory Lunch Seminar (online)

2020 Mathematisches Forschungsinstitut Oberwolfach, Automorphic Forms and Arithmetic

2020 Online Conference in Automorphic Forms, Hungarian Academy of Sciences, Alfréd Rényi Institute of Mathematics

2020 London Number Theory Seminar, University College London

2020 58th Seminar Aachen–Bonn–Köln–Lille–Siegen on Automorphic Forms, RWTH Aachen

2020 Dynamics: Topology and Numbers, Hausdorff Research Institute for Mathematics

2019 Boston College Number Theory/Algebraic Geometry Seminar

2019 City University of New York, Graduate Center, Study Group in Number Theory

2019 Philadelphia Area Number Theory Seminar

2019 Rutgers University, Number Theory Seminar

2018 Philadelphia Area Number Theory Seminar

2018 Hausdorff Center for Mathematics, Bonn, lecture series in the summer school “ L -Functions: Open Questions and Current Methods”

2018 32nd Automorphic Forms Workshop, Tufts University
 2018 AMS Special Session “A Showcase of Number Theory in Liberal Arts Colleges”, Joint Mathematics Meetings
 2018 Serbian Academy of Sciences and Arts, Mathematical Institute, Colloquium
 2017 Philadelphia Area Number Theory Seminar
 2017 Québec–Vermont Number Theory Seminar, McGill University
 2017 Mathematisches Forschungsinstitut Oberwolfach, Automorphic Forms and Arithmetic
 2017 A.A.Karatsuba’s 80th Birthday Conference in Number Theory, Steklov Mathematical Institute of the Russian Academy of Sciences and Lomonosov Moscow State University
 2017 University of Chicago, Algebraic Geometry Seminar
 2017 University of Pennsylvania, Galois Theory Seminar
 2017 31st Automorphic Forms Workshop, East Tennessee State University
 2017 AMS Special Session “An Amicable Combination of Algebra and Number Theory: A Dedication to Dr. Helen G. Grundman”, Joint Mathematics Meetings
 2017 MAA Invited Paper Session “ L -Functions and Other Animals”, Joint Mathematics Meetings
 2016 University of Michigan, Group, Lie and Number Theory (GLNT) seminar
 2016 Philadelphia Area Number Theory Seminar
 2016 University of Bristol, Heilbronn Number Theory Seminar
 2016 Georg-August-Universität Göttingen, Oberseminar Analytic Number Theory
 2016 Ruprecht-Karls-Universität Heidelberg, Oberseminar Modular Forms
 2016 Russian Academy of Sciences, Steklov Mathematical Institute, Contemporary Problems in Number Theory seminar
 2016 Eidgenössische Technische Hochschule (ETH) Zürich, Number Theory seminar
 2016 Universität Bielefeld, Arithmetic Geometry seminar
 2016 Max-Planck-Institut für Mathematik, Bonn, Number Theory Lunch Seminar
 2016 30th Automorphic Forms Workshop, Wake Forest University
 2016 Texas A&M University at Qatar, Science Colloquium
 2015 University of New South Wales, Sydney, Number Theory seminar
 2015 University of Queensland, Brisbane, Mathematics Colloquium
 2015 University of Melbourne, Algebra/Geometry/Topology seminar
 2015 Philadelphia Area Number Theory Seminar
 2015 Special Session on Interactions between Geometry, Group Theory, and Number Theory, American Mathematical Society, Sectional Meeting, Michigan State University
 2015 University of Novi Sad, Analysis seminar
 2015 29th Automorphic Forms Workshop, University of Michigan
 2014 Swarthmore College, Mathematics and Statistics Colloquium
 2014 Philadelphia Area Number Theory Seminar
 2014 Workshop on Analytic Number Theory and Geometry, Université Paris 13
 2014 The Ohio State University, Number Theory seminar
 2014 Automorphic Forms and Arithmetic, Georg-August-Universität Göttingen
 2013 State University of New York, University at Buffalo, Analysis seminar
 2013 Modular Forms and Modular Integrals in Memory of Marvin Knopp, American Mathematical Society, Sectional Meeting, Temple University
 2013 Villanova University, Mathematics & Statistics Colloquium

- 2013 Temple/Bryn Mawr Number Theory Seminar
- 2013 27th Automorphic Forms Workshop, University College Dublin
- 2012 Haverford College, Bi-Co Mathematics Colloquium
- 2012 Hungarian Academy of Sciences, Alfréd Rényi Institute of Mathematics, Number Theory seminar
- 2012 Institut Henri Poincaré, Paris
- 2012 Max-Planck-Institut für Mathematik, Bonn, Number Theory Lunch Seminar
- 2012 Georg-August-Universität Göttingen, Oberseminar Analytic Number Theory
- 2012 Stanford University, Number Theory seminar
- 2012 University of Texas at Austin, Algebra, Number Theory, and Combinatorics seminar
- 2012 Institute for Advanced Study, School of Mathematics, Princeton, Analysis seminar
- 2012 Bryn Mawr College, Bi-Co Mathematics Colloquium
- 2011 University of Copenhagen, Geometry and Analysis seminar
- 2011 Eidgenössische Technische Hochschule (ETH) Zürich, Number Theory seminar
- 2011 Universität zu Köln, Oberseminar Number Theory
- 2011 Serbian Academy of Sciences and Arts, Mathematical Institute, Colloquium
- 2011 École Polytechnique Fédérale de Lausanne, Centre Interfacultaire Bernoulli, Seminar
- 2011 Bryn Mawr College, Bi-Co Mathematics Colloquium
- 2010 Five College Number Theory seminar
- 2010 Princeton Workshop on Quantum Chaos: Arithmetic and Dynamics, Princeton University
- 2010 Amherst College, Mathematics Colloquium
- 2010 Bowdoin College, Mathematics Colloquium
- 2009 University of Michigan, Group Theory, Number Theory, and Representation Theory (GLNT) seminar
- 2008 University of Illinois at Chicago, Number Theory and Arithmetic Geometry seminar
- 2008 Hungarian Academy of Sciences, Alfréd Rényi Institute of Mathematics
- 2007 Johns Hopkins University, Number Theory seminar
- 2006 American Mathematical Society, Sectional Meeting, University of Connecticut
- 2006 University of Michigan, Number Theory seminar
- 2006 City University of New York, Graduate Center, Differential Geometry and Lie Theory seminar
- 2006 *L*-Functions and Related Themes, Analysis in Number Theory program, Centre de Recherches Mathématiques, Université de Montréal
- 2005 University of Texas at Austin, Number Theory seminar
- 2000 Serbian Academy of Sciences and Arts, Mathematical Institute

Reviews and invited contributions

- 2023 “Beyond the spherical sup-norm problem” (extended abstract, on joint work with Valentin Blomer, Gergely Harcos, Péter Maga), in “Group Actions and Harmonic Analysis in Number Theory”, *Oberwolfach Rep.* 22 (2023).
[DOI:10.4171/OWR/2023/22](https://doi.org/10.4171/OWR/2023/22) (upcoming)
- 2020 “The Density Hypothesis for Horizontal Families of Lattices” (extended abstract, on joint work with Mikołaj Frączyk, Gergely Harcos, Péter Maga), in “Automorphic Forms and Arithmetic (hybrid meeting)”, *Oberwolfach Rep.* 17:2–3 (2020).

[DOI:10.4171/OWR/2020/26](https://doi.org/10.4171/OWR/2020/26)

- 2011–2018 *AMS Mathematical Reviews/MathSciNet* reviews: MR2661540 (Choi: Poincaré series and the divisors of modular forms), MR2726097 (Bernstein, Reznikov: Subconvexity bounds for triple L -functions and representation theory), MR2862393 (Zhang: A mean value related to D. H. Lehmer’s problem and the Ramanujan’s sum), MR2887612 (Munshi: A note on simultaneous nonvanishing twists), MR3003991 (Tang: A note on the Fourier coefficients of Hecke-Maass forms), MR3058727 (Dou/Zhang: Six short chapters on automorphic forms and L -functions), MR3283005 (Farmer, Koutsoliotas, Lemurell: Maass forms on $GL(3)$ and $GL(4)$), MR3313407 (Jin, Lim: On the regularized imaginary Doi–Naganuma lifting), MR3347956 (Manickam, Meher, Ramakrishnan: Theory of newforms of half-integral weight), MR3369905 (Munshi: The circle method and bounds for L -functions—III: t -aspect $GL(3)$ L -functions), MR3544415 (Tang, Xiao: Integral moments of automorphic L -functions), MR3632094 (Kaczorowski, Perelli: Twists and resonance of L -functions, II)
- 2017 “The sup-norm problem for $GL(2)$ over number fields” (extended abstract, on joint work with Valentin Blomer, Gergely Harcos, Péter Maga), in “Automorphic forms and arithmetic”, *Oberwolfach Rep.* 14:3 (2017).
[DOI:10.4171/OWR/2017/40](https://doi.org/10.4171/OWR/2017/40)
- 2014 “1927: William Lowell Putnam Mathematical Competition”, a section of “The Pi Mu Epsilon 100th Anniversary Problems: Part III”, *Pi Mu Epsilon Journal* 14:1 (2014): 65–99.

Grants, prizes, honors & fellowships

- 2019–2024 Grant DMS-1903301: “Distribution and analytic aspects of cusp forms”, PI, National Science Foundation, Division of Mathematical Sciences
- 2019 Simons Collaboration Grants for Mathematicians (5 years), PI, Simons Foundation, Mathematical and Physics Sciences (returned due to receipt of NSF award)
- 2019 Conference Grant DMS-1854113: “Workshop on Automorphic Forms and Related Topics”, co-PI, National Science Foundation, Division of Mathematical Sciences
- 2019 Conference Grant: “33rd Automorphic Forms Workshop”, co-PI, National Security Agency Mathematical Sciences Program
- 2015–2019 Grant DMS-1503629: “Arithmetic Manifolds, Automorphic Forms, Exponential Sums, and L -Functions”, PI, National Science Foundation, Division of Mathematical Sciences
- 2016–2018 “Philadelphia Area Number Theory Seminar”, Mellon Tri-College Faculty Forum Seed Grants (two years)
- 2015/16 Junior Faculty Research Leave, Bryn Mawr College
- 2014– “Tri-College Mathematics Problem Seminar”, project funded by Bryn Mawr College through the Andrew W. Mellon Foundation grant to BMC “Creating a Vital and Sustainable Curriculum for the 21st Century”
- 2014–2015 Young Investigator Grant H98230-14-1-0139: “Arithmetic Manifolds, L -Functions, and Analysis”, PI, National Security Agency Mathematical Sciences Program
- 2012– Start-Up Research Grant, K/G Fund for Faculty Research, Bryn Mawr College
- 2007 Spring/Summer Research Fellowship, University of Michigan, Department of Mathematics
- 2001–2006 Assistantship in research and instruction with summer support, full first-year fellow-

ship, Princeton University
 2001-2004 Studenica Foundation Fellowship
 1999-2001 Fellowship of Serbian Academy of Sciences and Arts
 1999 International Mathematics Competition for University Students, Grand First Prize
 1997-1998 Annual Vojtěch Jarník Competition in Mathematics, two First Prizes
 1997 International Mathematics Competition for University Students, First Prize
 1995-1996 International Mathematical Olympiad, two Silver Medals
 1996 International Olympiad in Informatics, Bronze Medal
 1995-1996 Balkan Mathematical Olympiad, two First Prizes
 1992-1996 Four first ranks at federal competitions in Mathematics, four first prizes at republic competitions in Mathematics, first prize (1996) at republic and federal competitions in Computer Science

Teaching experience

Bryn Mawr College

2012- Math 102 Calculus II (Fall '13)
 Math 201 Multivariable Calculus (Fall '16)
 Math 203 Linear Algebra (2x Spring '21, *Spring '23*)
 Math 290 Elementary Number Theory (Spring '13, Spring '15, Fall '18)
 Math 301 Real Analysis I (Fall '13, Fall '17, 2x Fall '21)
 Math 302 Real Analysis II (Spring '14, Spring '18, Spring '19, Spring '22)
 Math 390 Number Theory (Fall '17, Spring '22)
 Math 395/396/702 Research Seminar (every semester since Fall '13)
 Math 398/399 Senior Conference (Fall '12, Spring '14, Fall '14, Spring '18)
 Math 400 Senior Thesis (Fall '21, Spring '22)
 Math 400 Senior Thesis (course coordinator: Spring '21; Spring '22)
 Math 403 Number Theory (independent study course, Fall '12)
 Math 501 Graduate Analysis I (Fall '12, Fall '14, Fall '16, Fall '18, *Fall '22*)
 Math 502 Graduate Analysis II (Spring '13, Spring '15, Spring '17, Spring '19, *Spring '23*)
 Mathematics major advisor
 2012- Supervised Ph.D. theses of:
 Lindsay Dever, Ph.D., 2022
 Daniel White, Ph.D., 2021
 Frank Romascavage, Ph.D., 2017
 2016- M.A. thesis advising
 2013- Undergraduate honors thesis advising
 2014/15 Led the weekly Mathematics Problem Solving Seminar

Amherst College

2010-2011 Math 12 Intermediate Calculus (Fall '10)
 Math 13 Multivariable Calculus (Fall '10, Spring '11)
 Math 28 Introduction to Analysis (Spring '11)
 Math 98 Number Theory and Analysis (special topics course, Spring '11)

Led a weekly practice seminar for the William Lowell Putnam examination (Fall '10)
Mentored independent reading courses in Number Theory and Linear Algebra

University of Michigan

- 2006-2010 Math 214 Linear Algebra and Differential Equations (Fall '06)
Math 217 Linear Algebra (Winter '07, Fall '09, Winter '10)
Math 289 Problem Seminar (Fall '08, Winter '09, Fall '09, Winter '10); Michigan ranked in top 10 in the 2008 Putnam exam (first since 1999)
Math 475 Elementary Number Theory (Fall '07)
Math 476 Computational Laboratory in Number Theory (Fall '07)
Math 575 Introduction to the Theory of Numbers (Fall '08)
Math 775 Topics in Analytic Number Theory (Families of Automorphic L -functions, Winter '08)
Integrated computer laboratory components and developed proof-writing modules, collaborative learning, and one-on-one mentoring in Linear Algebra courses
- 2009 Mentored an REU project on subconvexity of L -functions
- 2007-2008 Mentored independent reading/final papers in Number Theory courses

Princeton University

- 2002-2006 Mat 103 Calculus (Fall '03/'04)
Mat 104 Calculus (Fall '02/'03, Spring '03)
Mat 202 Linear Algebra with Applications (Spring '04)
Mat 214 Numbers, Equations and Proofs (grader)
- 2001-2006 Led, organized and taught practice seminar for Princeton students entering the William Lowell Putnam Examination. Princeton finished second three times during this five-year period and won for the first time in 2006
- 2001-2004 VIGRE mentoring program graduate mentor

Belgrade

- 2000-2001 Teaching Assistant at the Faculty of Mathematics, University of Belgrade: co-taught courses and conducted exams in Analysis I, Distributions and Partial Differential Equations, Mathematical Logic, Mathematical Logic in Computer Science
- 2000-2001 Geometry II (Trigonometry, space geometry, descriptive geometry), Mathematics High School, Belgrade
- 1996-2001 Trained Yugoslav teams for international mathematical competitions and coordinated the yearlong effort; lectured on a wide variety of extracurricular topics for talented students

Service to the profession

Problem solving

- 2014-2018 Co-organizer of the Tri-College Problem Solving Seminar
- 2011-2014 William Lowell Putnam Examination, member of the three-person Questions Commit-

tee, Chair of the Questions Committee (2013), authored nine original problems used in the 2011, 2012, and 2013 competitions

- 2010-2013 Grading the William Lowell Putnam Examination
- 2000-2009 International Mathematics Competition for University Students: served on the High Jury and as a team leader in seven competitions, for the University of Michigan ('08, '09), Princeton University ('04, '05, '06), and the University of Belgrade ('00, '01), member of the Problem Selection Committee ('01, '04, '08, '09), chaired the jury meetings ('08), authored eight problems used in the competitions
- 2006-2011 Prepared problem seminar materials for future instructors at Michigan and Amherst
- 2010 Graded Williams–Middlebury Green Chicken Mathematics Contest
- 2007-2010 Graded Michigan Mathematics Prize Competition
- 2000- Member, Serbian Commission for high school competitions in Mathematics

Popular and outreach talks

- 2018 “Why are drums shaped by number theory sometimes louder than others?”, Budapest Semesters in Mathematics colloquium
- 2017 Invited visiting mathematician and lecturer, Canada/USA Mathcamp
- 2017 “Why are drums shaped by number theory sometimes louder than others?”, plenary talk in the REU program, Muhlenberg College
- 2016 Keynote presentation on the occasion of the 50th anniversary of the Mathematics High School, Belgrade
- 2011 “What is... an L -function?”, “Mathematics Alive” undergraduate seminar, Mathematical Institute, Belgrade
- 2009 “What is... a modular form?”, Mathematics High School, Belgrade
- 2008 “The smallest uncountable ordinal and other tales”, Undergraduate Math Club, University of Michigan
- 2008 “Transcendental numbers”, Undergraduate Math Club, University of Michigan

Peer review

- 2020 Remote referee for the European Research Council
- 2016 National Science Foundation Review panel, Division of Mathematical Sciences
- 2015 External reviewer for the American Mathematical Society–National Security Agency Mathematical Sciences Grant Program
- 2013 External reviewer for the National Sciences and Engineering Research Council of Canada (NSERC)
- 2011-2018 Reviewing service for *Mathematical Reviews*
- 2004- Refereeing service for *Algebra & Number Theory*, *Acta Arithmetica*, *Advances in Mathematics*, *American Mathematical Monthly*, *Annales de l'Institut Fourier*, *Archiv der Mathematik*, *Bulletin of the London Mathematical Society*, *Compositio Mathematica*, *Duke Mathematical Journal*, *International Mathematics Research Notices IMRN*, *Israel Journal of Mathematics*, *Journal d'Analyse Mathématique*, *Journal de l'Institut de Mathématiques de Jussieu*, *Journal of the American Mathematical Society*, *Journal of the European Mathematical Society*, *Journal of the London Mathematical Society*, *Journal of Number Theory*, *Manuscripta Mathematica*, *Mathematika*, *Mathematische Annalen*, *Proceedings of the American Mathematical Society*, *Re-*

search in Number Theory, The Ramanujan Journal

Committee work

- 2021-
2021 Serving on the Graduate Council, Bryn Mawr College (Co-Chair 2021/22)
- 2021 Led the working committee of faculty and graduate students to reform the preliminary exams and advancement to Ph.D. candidacy in Mathematics, Bryn Mawr College
- 2021 Served on the Advisory Council of the Faculty, Bryn Mawr College
- 2021 Served on the Selection Committee for the next Dean of Graduate Studies, Bryn Mawr College
- 2019 Served on a doctoral defense committee in Mathematics, University of Illinois at Chicago
- 2018-2019 Served on the Search committee for the new Science Librarian and Coordinator of the Collier Science Library, Bryn Mawr College
- 2018-2021 Committee on Libraries, Information and Computing (CLIC), Bryn Mawr College
- 2017-2020 Faculty Representative to the Administrative Board of the Academic Honor System, Bryn Mawr College
- 2017 Served on a doctoral defense committee in Mathematics, Drexel University
- 2014-2015 Served on the Committee on Endowed Lectures, Bryn Mawr College
- 2012- Served on Mathematics search committees for three tenure-track and one visiting faculty position, Bryn Mawr College
- 2012- Served on four doctoral defense committees, nine doctoral preliminary examination committees in Mathematics and Physics, and annual Honors and A.B./M.A. defense committees in Mathematics, Bryn Mawr College
- 2013 Swarthmore College Honors Program, outside examiner for Complex Analysis
- 2010-2011 Served on the comprehensive senior examination committee, Amherst College
- 2009-2010 Served as a lead member on the committee to reform the gateway Linear Algebra course at the University of Michigan. Mentored teaching assistants involved in the project, fine-tuned the curriculum, and developed a problem bank and ready-to-use models for future instructors.
- 2007-2010 Served on four doctoral defense committees, two preliminary examination committees in Mathematics, University of Michigan

Organizer service

- 2019 Co-organizer of the 33rd Automorphic Forms Workshop
- 2018 Co-organizer of the summer school “ L -Functions: Open Questions and Current Methods”, Hausdorff Center for Mathematics, Bonn, Germany
- 2015- Co-organizer of the annual Philadelphia Undergraduate Mathematics Conference Series
- 2014- Co-organizer of the Philadelphia Area Number Theory Seminar
- 2012-2019 Bryn Mawr College organizer for the Bi-Co Mathematics Colloquium (apart from research leave in 2015/16)

Professional development and mentoring

- 2022 Graduate student mentoring feedback panel, Graduate Group in Sciences and Mathematics, Bryn Mawr College

- 2022 Publishing Research Papers panel, Professional Development Seminar series of the Graduate Group in Sciences and Mathematics, Bryn Mawr College
- 2021,22 Graduate teaching assistant orientation, co-leader of the session for the Graduate Group in Sciences and Mathematics, Bryn Mawr College
- 2018 Academic Job Search panel for science and engineering graduate students, The Graduate School, Princeton University
- 2018 Graduate school Q&A panel, Budapest Semesters in Mathematics
- 2018 Panel on mathematical careers, Hausdorff Center for Mathematics, Bonn, summer school “*L*-Functions: Open Questions and Current Methods”
- 2017 Professional development panel on postdoctoral positions, Bryn Mawr College Graduate Group in Sciences and Mathematics
- 2017 Moderator of the professional development session, Philadelphia Undergraduate Mathematics Conference Series
- 2017 Professional development panel on “Good Mathematical Writing”, 31st Automorphic Forms Workshop, East Tennessee State University
- 2016 Professional development panel on “Balancing Professional Responsibilities”, 30th Automorphic Forms Workshop, Wake Forest University
- 2015 Professional development panel on “Mathematics with $+1$'s and ε 's”, 29th Automorphic Forms Workshop, University of Michigan
- 2013 Panel participant in the New Faculty Orientation program, Bryn Mawr College
- 2013 Professional development panel on “Tenure expectations for mathematicians around the world”, 27th Automorphic Forms Workshop, University of Dublin
- 2008 Breakout session on “Classes outside the 'Intro program' ”, Professional Development Program, University of Michigan, Department of Mathematics
- 2006 Graduate School Discussion Panel, Undergraduate Math Club, University of Michigan

Further service

- 2016 Prepared and led an invited session of the Philadelphia Area Math Teachers' Circle
- 2013,16 Freshman Customs Week faculty adviser, Bryn Mawr College
- 2016 Customs Week panel on Academic Honor Code, Bryn Mawr College
- 2014- Pre-doctoral and doctoral mentor, National Alliance for Doctoral Studies in the Mathematical Sciences
- 2004-2006 Maintained the graduate general examinations web site for Mathematics Department, Princeton University
- 2003-2004 Organized and gave talks in a graduate student learning seminar on representation theory of semisimple groups, after Knapp's book
- 2002-2003 Organized and gave talks in a graduate student learning seminar on Jacquet-Langlands $GL(2)$ theory, after Godement's notes

Memberships

- 2002- American Mathematical Society
- 2015- Association for Women in Mathematics
- 2010-2018 Mathematical Association of America

Additional conferences attended

Research

- 2022 50 Years of Number Theory & Random Matrix Theory Conference, Institute for Advanced Study (IAS) (remote)
- 2022 34th Automorphic Forms Workshop, Brigham Young University
- 2021 Harmonic Analysis and Symmetric Spaces 2021
- 2017 Recent developments in Analytic Number Theory, Mathematical Sciences Research Institute (MSRI)
- 2016 Cohomology of Arithmetic Groups, Max-Planck-Institut für Mathematik, Bonn
- 2016 L -Functions and Automorphic Forms, Mathematics Center Heidelberg and Ruprecht-Karls-Universität Heidelberg, Germany
- 2015 Number Theory Down Under 2015, Centre for Computer-Assisted Research Mathematics and its Applications (CARMA), University of Newcastle, Australia
- 2014 Analysis, Spectra & Number Theory, Princeton University and Institute for Advanced Study (IAS) (session chair)
- 2014 Summer School on Analytic Number Theory, Institut des Hautes Études Scientifiques (IHÉS), Paris, France
- 2014 AMS/MAA Joint Mathematics Meetings, Baltimore
- 2013 Analytic Number Theory, Centre International de Rencontres Mathématiques (CIRM), Marseille, France
- 2013 Combinatorics, Multiple Dirichlet Series and Analytic Number Theory; Automorphic Forms, Combinatorial Representation Theory and Multiple Dirichlet Series program, Institute for Computational and Experimental Research in Mathematics (ICERM), Brown University
- 2012 Marvin Knopp Memorial Conference, Temple University
- 2012 Modular Forms, Mock Theta Functions, and Applications, Universität zu Köln
- 2010 International Conference on Spectral Geometry, Dartmouth College
- 2010 AMS/MAA Joint Mathematics Meetings, San Francisco
- 2008 Clay Research Conference, Massachusetts Institute of Technology
- 2008 The Midwest Number Theory Days, University of Illinois at Chicago
- 2005 Equidistribution in Number Theory, Séminaire de Mathématiques Supérieures/NATO Advanced Study Institute, Université de Montréal
- 2004 Matrix Ensembles and L -functions, Random Matrix Approaches in Number Theory programme, Isaac Newton Institute for Mathematical Sciences, Cambridge, UK
- 2004 Workshop on Spectral Theory and Automorphic Forms, Université de Montréal
- 2003 The Web of Modularity, University of Illinois at Urbana-Champaign
- 2003 Additive Number Theory and Applications to Harmonic Analysis, CUNY Graduate Center
- 2003 Number Theory Workshop, Brown University
- 2002 Automorphic Forms and Applications, Graduate Summer School, IAS/Park City Mathematics Institute
- 2002 Workshop on Zeta-functions and associated Riemann Hypotheses, Courant Institute of Mathematical Sciences, New York University
- 2001 10th Congress of Yugoslav Mathematicians, Belgrade

Professional

- 2023 Mobilizing the Power of Diversity, Enhancing Diversity in Graduate Education (EDGE), Bryn Mawr College (upcoming)
- 2022 Rethinking Graduate Admissions in the Mathematical Sciences, American Mathematical Society
- 2021 Graduates Achieving Inclusion Now (GAIN), Duke and Purdue Universities
- 2021 paraDIGMS: Diversity in Graduate Mathematical Sciences, Spring 2021 conference, American Mathematical Society and Institute for Mathematical and Statistical Innovation

Last updated: August 9, 2023 • Typeset in \LaTeX

http://www.brynmawr.edu/math/people/milicevic/documents/Djordje_Milicevic_CV.pdf