QËNDRIM R. GASHI

CONTACT Department of Mathematics, University of Maryland, College Park

INFORMATION 476 Campus Drive

MD 20742-4015

E-mail: qendrim@gmail.com

PERSONAL Date of birth: June 4, 1984

INFORMATION Citizen of Kosovo

Married, two children

EMPLOYMENT Visiting Professor, 2024—

Department of Mathematics, University of Maryland, College Park

Associate Professor, 2010—2016 & 2021—2025 (on leave)

Department of Mathematics, University of Prishtina

Ambassador of Kosovo to France, June 2016—August 2021

Ministry of Foreign Affairs of Kosovo

Research Visitor, September 2015—May 2016

Max-Planck-Institut für Mathematik (Bonn, Germany)

Foreign Policy Advisor to the President of Kosovo, April—October 2011

Office of the President of the Republic of Kosovo, President Jahjaga

Fellow of the European Post-Doctoral Institute 2008—2010

MPIM Bonn, Isaac Newton Cambridge, IHES (Bures-sur-Yvette, France), January -

August 2010

Lecturer in Mathematics 2005—2008

Taught mathematics courses to undergraduates at the University of Chicago.

EDUCATION University of Chicago

Ph.D. in Mathematics (advisor R. Kottwitz), 2008

S.M. in Mathematics, 2004

University of Cambridge

M.A. St. in Mathematics, 2003

University of Prishtina

Diploma in Mathematics, 2002

George Washington University, Affiliate at the Institute for Public Diplomacy and

Global Communication, 2024-2025

Dole Spring 2023 Fellow, Dole Institute of Politics, Kansas, 2023

Awarded Commandeur de la Légion d'Honneur from the French Republic 2022 Research Visitor Fellowship, Max-Planck-Institut für Mathematik (Bonn, Germany),

September 2015-May 2016

Ambassador of NANUM 2014 & ICM 2014

Supporting Prize 2014 of the Academy of Sciences and Arts of Kosovo

Visitor at The University of Edinburgh under London Mathematical Society Grant of Iain Gordon, September 2013

Young Scientist of the Year, Kosovo, 2012

Fellow of the European Post-Doctoral Institute, 2008 - 2010

Clay Mathematics Institute Liftoff Fellowship, Summer 2008

Carlos Isnard Ph.D. Graduate Mathematics Studies Memorial Award (U. of Chicago), 2007

Lawrence and Josephine Graves Teaching Prize (U. of Chicago), 2007

Two grants by Kosovo Foundation for Open Society, 2002-2003 and 2003-2004 Trinity College (University of Cambridge) Eastern European Bursary, 2002-2003

Honorary Student, Cambridge Overseas Trust, 2002-2003

Distinguished Student, University of Prishtina, 2002

Study Visit, Paris, France (Grant by World University Service, Austria), 2001

SELECTED
MATHEMATICS
PUBLICATIONS
AND PREPRINTS

FELLOWSHIPS,

HONORS

AWARDS, PRIZES,

GRANTS, and other

- [1] Q. R. Gashi, *Vanishing results for certain toric varieties arising from GLn and G2,* Transform. Groups, vol. 13, no. 1 (2008).
- [2] Q. R. Gashi, A vanishing result for toric varieties associated with root systems, Alb. J. Math. (2007), 4, pp.235-244.
- [3] Q. R. Gashi, *The Conjecture of Kottwitz and Rapoport in the case of split groups,* Ph.D. thesis, The University of Chicago 2008.
- [4] Q. R. Gashi, On a Conjecture of Kottwitz and Rapoport, Ann. Sci. d'E.N.S. 43, fascicule 6 (2010), 1017-1038.
- [5] Q. R. Gashi and T. Schedler, *On dominance and minuscule Weyl group elements,* J. Algebraic Combin., Volume 33, Number 3 (2011), 383-399.
- [6] Q. R. Gashi, T. Schedler, and D. Speyer, *Looping of the numbers game and the alcove hypercube*, J. of Combin. Th Series A, Vol. 119, Issues 3, April 2012, pp. 713-730.
- [7] Q. R. Gashi and T. Schedler, *Projective normality of toric varieties arising from root systems*, Glasg. Math. J. 55A, 113-134 (2013).
- [8] Q. R. Gashi, On a problem involving strongly orthogonal roots, MPIM Preprint 17, 2016.
- [9] Translation of *How to bake Pi*, a book written by Eugenia Cheng, published in Albanian as *Si të pjekim PI-te* (Dukagjini Publishing House, November 2023)
- [10] P.J. Browne, Q. R. Gashi and P. O Cathain, A Bollobas-type problem: from root systems to Erdos-Ko-Rado, Annals of Combinatorics (2024)
- [11] Q. R. Gashi, *Intersection-closed families of sets* (preprint, March 2024)

GW (March 2025)

SELECTED TALKS

UMD College Park (February 2025)

ON OWN WORK

CAGE Seminar Drexel/Haverford/Lehigh/Swarthmore/UPenn/Villanova (January 2025)

Bulgarian Academy of Sciences Institute of Mathematics (July 2024)

Thessaloniki Math Week keynote speaker (April 2024)

University of Rijeka (July 2023)

ICM 2014 Seoul Short Communication (August 2014)

University of Edinburgh (September 2013)

University of Queensland, Brisbane (August 2013)

Oakland University (May 2012)

Hausdorff Institute of Mathematics, Bonn (April 2010) Max-Planck-Institut für Mathematik Bonn (June 2009)

MIT (April 2009)

University of Chicago (April 2009)

University of British Columbia, Vancouver (April 2009) University of British Columbia, Vancouver (March 2009)

Université de Genève (March 2009)

Universität Bonn (two talks, November 2008) Inst. de Math. de Jussieu, Paris (May2008)

Purdue University (January 2007) Oakland University (September 2006) Stanford University (June 2006)

SERVICES AND VOLUNTEERING

Founder and Chairman of the Board of Directors, Council of Kosovo Ambassadors, 2023 -

Founder and President, Institute for the Promotion of the Scientific Method, 2022-Education Committee of the European Mathematical Society, Member, 2013-2021

Kosovo State Council on Quality 2015-2016

Alliance Française de Pristina, President, 2013-2015

Kosovo American Education Fund, Committee Member, 2013-2015 ProCredit Bank Kosovo, Member of Board of Directors, 2012-2016 University of Prishtina Publishing Council, Member, 2013-2015

Volunteer Supervisor, AniMat Prishtina, 2013-2015

Kosovar Mathematical Society, Founder and President, 2008-2012

FER Political Party in Kosovo, Founding member, 2010

Kosovar Mathematical Olympiad, Chief Coordinator, 2009-2012 Directed Reading Program Committee (Chicago) Member, 2005-2007 Tutoring middle school students in math, Hyde Park, Chicago, 2004-2006

Engaging America: Ambassadorial Perspectives on Public Diplomacy (November

CONFERENCES, WORKSHOPS,

SERIES &

S.C.A.M. (Scientific Computing and Mathematics) Prishtina Workshop (July 2024)

UP Math Department Seminar (2021-2024)

2024-), George Washington University

SEMINARS New Directions in Automorphic Forms and L-Functions (July 2017)

ORGANIZED The Language of Symmetries -- A View from Representation Theory and Algebraic

Geometry (July 2014)

Graduate Student "Pizza" Seminar (UChicago) 2004-2005

COURSES TAUGHT

& INFORMAL

SEMINARS

Graduate: Algebra (Groups, Rings and Fields), Galois Theory, Computational

Topology, Representation Theory.

Undergraduate: Game Theory, Linear algebra, Abstract Algebra, Discrete

Mathematics, Algebraic Topology, Calculus, etc.

Informal seminar series: What is...?, Reading seminar on counting lattice points in

polytopes.

MENTORSHIP Mentored a number of undergraduate students at the University of Prishtina,

including:

Vlerë Mehmeti, p-adic Numbers and Newton Polygons

Uran Meha, Young Tableaux Islam Foniqi, *Elliptic Curves*

Shpend Mahmuti, Counting Lattice Points in Polytopes

Genta Latifi, Finite Fields and Algebraic Closure

MEMBERSHIP European Mathematical Society, London Mathematical Society, Kosovar

Mathematical Society

CONSULTANCIES Has served or serves as a senior consultant for various international organizations and

private companies in Kosovo, including American Councils, USAID, GIZ, KEC, KAS,

Gjirafa, Dukagjini, etc.

LANGUAGES Albanian (native), English, French, Italian (understand), and Serbian.