Curriculum Vitae

**Name:** Dmitry Gourevitch
**Date of birth:** December 9, 1981
**Website:** `http://www.wisdom.weizmann.ac.il/~dimagur/`

## Education & Academic Appointments:

2022 - present: Full Professor, department of Mathematics, Weizmann Institute of Science, Israel

2017 - 2022: Associate Professor, department of Mathematics, Weizmann Institute of Science, Israel

2011 - 2017: Senior Scientist (Assistant Professor), department of Mathematics, Weizmann Institute of Science, Israel

2010 - 2011: Hill Assistant Professor, department of Mathematics, Rutgers - the state university of New Jersey

2009-2010: Member of the School of Mathematics of the Institute for Advanced Study, Princeton

2005-2009: Ph.D. in mathematics at the Weizmann Institute of Science, Israel.
Thesis title: Multiplicity One Theorems and invariant distributions.
Thesis Advisors: Prof. J. Bernstein, Prof. S. Gelbart.

2003-2005: M. Sc. in mathematics at the Weizmann Institute of Science, Israel.
Thesis title: Schwartz functions on Nash manifolds.
Thesis Advisors: Prof. J. Bernstein, Prof. S. Gelbart.

1997-2000: B. A. in Mathematics at Tel-Aviv University.

## Professional activities:

2023 - 2024: secretary of the Israel Mathematical Union

*Conference organizer*:

2024: Annual meeting of the Israel Mathematical Union, j.w. Prof. Gideon Shechtman, Maria Gorelik, and Nathan Keller.

2023: Annual meeting of the Israel Mathematical Union, j.w. Prof. Gideon Shechtman, Maria Gorelik, and Nathan Keller.

2020: Zoom-conference "Representation Theory and Algebraic Analysis", on the occasion of Joseph Bernstein's 75nd birthday, j.w. Prof. Andre Reznikov
`http://www.weizmann.ac.il/math/RTAA/`

2017: "Conference on representation theory and Algebraic Geometry", on the occasion of Joseph Bernstein's 72nd birthday, j.w. Prof. Erez Lapid and Avraham Aizenbud, Weizmann Institute of Science, Israel.

*Workshop organizer*:

2017: Special trimester "Representation Theory of Reductive Groups Over Local Fields and Applications to Automorphic forms", j.w. Prof. Joseph Bernstein, Erez Lapid and Avraham Aizenbud, Weizmann Institute of Science, Israel.

2016: Algebra section of the Israel Mathematical Union annual meeting, the Dead sea, Israel.

2015: Algebra and Representation theory section of the Israel Mathematical Union annual meeting, the Dead sea, Israel.

2014: "Twelfth Night Workshop in Representation Theory", j. w. Prof. Maria Gorelik, Weizmann Institute of Science, Israel.

2013: Representation theory section of the Israel Mathematical Union annual meeting, Haifa University, Israel.

*Seminar organizer*:

2011-2020: "Representation Theory and Algebraic Geometry" seminar of the Weizmann Institute, j.w. Prof. Maria Gorelik and Avraham Aizenbud.

2020 - 2023 International online seminar "Representation Theory and Algebraic Geometry", j.w. Prof. Erez Lapid. Seminar webpage:
`http://aizenbud.org/7Service/RTAG_Sem/index.html`
The lecture recordings are available on my YouTube channel
`https://www.youtube.com/channel/UCgDYVOFS6CF3_t8u1YnVUug`

*Editor*:

2021-present: Representation Theory - an electronic journal of the AMS.

2022-2024: Mathematische Zeitschrift

*Reviewer*: IMRN, Advances in Mathematics, Mathematische Annalen, JAMS, Selecta Mathematica, Compositio Mathematica, Israel Journal of Mathematics, Transformation Groups, Pacific Journal of Mathematics, Journal of Lie Theory, Journal of Number Theory, Journal of Algebra.

**Fellowships and Prizes:**

2016: Dr. A. Edward Friedmann Career Development Chair in Mathematics

2016: Morris L. Levinson Prize in Mathematics of the Weizmann Institute of Science

2013: Levitzki Prize in algebra of the Israeli Mathematical Union

2011: Alon Fellowship for young Israeli researchers

2009: Rothschild Postdoctoral Fellowship.

2009: Elchanan E. Bondi Memorial Prize for Ph.D. students of the Weizmann Institute of Science, Israel.

**Grants:**

2023 - 2027: Principal Investigator (j.w. A. Aizenbud and E. Sayag), ISF grant 1781/23 "Multiplicities and wave-front sets in representation theory of reductive groups"

2020 - 2024: Principal Investigator (j.w. S. Sahi), BSF-NSF grant 2019724 "Research in representation theory with applications to number theory and physics".

2017 - 2022: Principal Investigator (j.w. A. Aizenbud), ISF grant 249/17 "Invariant distributions and applications to representation theory".

2015 - 2020: Principal Investigator, ERC starting grant 637912 "Relative representation theory and distributions on reductive groups over local fields".

2013 - 2015: Principal Investigator, Minerva foundation Grant "Multiplicities of degenerate Whittaker functionals".

2012 - 2017: Principal Investigator, ISF grant 756/12 "Co-equivariants in representations of reductive groups".

**Career gaps:**

October 2000 - October 2003: Compulsory military service, 36 month.

**Students:**

*Ph.D. students*: Boaz Elazar (2013 - 2018), Ary Shaviv (2015 - 2019), Shachar Carmeli (2016 - 2021), Alexander Shamov (2016 - 2021), Itay Pikaz (2023 - present).

S. Carmeli was awarded the Adams fellowship in 2017, and the Dimitris N. Chorafas Prize in 2020. He recently started a tenure-track position at the Weizmann Institute.

*M.Sc. students*: Ezra Waxman (2012-2013), Noam Kahlon (2013 - 2014), Shachar Carmeli (2013 - 2015), Itay Glazer (2014 - 2015), Shai Keidar (2018 - 2019), Dor Mezer (2019 - 2021), Itai Naor (2020 - 2022), Arieh Zimmermann (2021-2023).

D. Mezer and S. Carmeli were awarded the Susan Sapir Memorial Prize for M.Sc. Students of the Weizmann Institute. I. Glazer has recently started a tenure-track position at the Technion.

*Post doctoral trainees*: Andrey Minchenko (2014-2017), Maxim Gurevich (2015-2017), Roberto Rubio (2018), Yuanqing Cai (2017 - 2019), Zhuohui Zhang (2018 - 2020), Hengfei Lu (2018 - 2020), Hongjie Yu (2022-2024), Peiyi Cui (2023-2024).

Maxim Gurevich is currently an Assistant Professor at the Technion, Israel.
Yuanqing Cai is currently an Assistant Professor at the Kanazawa University, Japan.
Roberto Rubio is currently an Assistant Professor at the University of Barcelona, Spain.
Hengfei Lu has a tenure track position at the Beihang University, Beijing.
Hongjie Yu has a tenure track position at the Chinese Academy of Sciences.

**Teaching activities:**

2012 - present: Lecturer in several graduate courses at the Weizmann Institute of Science.
Taught introductions to: Representation Theory, Algebraic Geometry, Algebraic Number Theory, the theory of Algebraic D-modules, Generalized Functions.

2010 Lecturer in two undergraduate courses, Rutgers - the state university of New Jersey.

**Institutional responsibilities:**

2024 - present: deputy head of the board of studies of the Faculty of Mathematics and Computer Science.

2023 - 2024: Head of the board of studies of the department of Mathematics.

2020 - 2023: Head of the board of studies of the Faculty of Mathematics and Computer Science.

2018 - 2020: Member of the board of studies of the Faculty of Mathematics and Computer Science.

**Invited presentations:**

2024: "A Stone-von Neumann equivalence Dmitry Gourevitch of categories for smooth representations of the Heisenberg group", Conference on Real Reductive Groups and Theta Correspondence, Tianyuan, China (online talk) and winter STAR 2024 workshop, Weizmann Institute, Israel.

2024: "Hypergeometric orthogonal polynomials of Jacobi type", workshop on Branching Problems for Representations of Real, P-Adic and Adelic Groups, Kelowna, Canada, and Tel Aviv University colloquium, Israel.

2023: "Multiplicities and periods beyond spherical pairs", 5th Nisyros Conference on Automorphic Representations & Related Topics, Nisyros Island, Greece.

2023: "Finite multiplicities of restrictions to Lie subalgebras, in terms of associated varieties", Winter STAR workshop 2023, Weizmann Institute, Israel.

2022: "Fourier coefficients of automorphic forms", workshop "Crossing the bridge: New connections in number theory and physics", Cambridge, UK.

2022: "Representations of real reductive groups in function spaces," Technion colloquium, Haifa, Israel.

2022: "Finite multiplicities beyond spherical pairs," Conference "Symmetry in Geometry and Analysis', Conference in honor of the 60th birthday of Toshiyuki Kobayashi, Reims, France.

2021: "Finite multiplicities beyond spherical pairs," virtual workshop "Basic Functions, Orbital Integrals, and Beyond Endoscopy" at BIRS, Banff, Canada.

2021: "Representations of real reductive groups in function spaces," Tel Aviv University colloquium, Israel.

2021: 'Nilpotent orbits associated to distinguished representations of reductive groups," virtual workshop "Relative Aspects of the Langlands Program, L-Functions and Beyond Endoscopy" at CIRM, France;

2019: "Fourier coefficients of automorphic forms and applications to minimal and next-to-minimal forms," workshop "Automorphic structures in string theory", the Simons Center for Geometry and Physics, NY, USA; and "Sphericity" workshop at CIRM, France;

2018: "Fourier coefficients of automorphic forms," Bar Ilan University colloquium, Israel;

2018: "Generalized and degenerate Whittaker quotients, and Fourier coefficients", Conference on Lie groups, Lie algebras and applications, Haifa and Karmiel, Israel;

2017: "Harmonic analysis on spherical varieties and multiplicity bounds", Clay Institute workshop "D-modules, geometric representation theory, and arithmetic applications", Oxford, UK.

2017: "D-modules and co-invariants in Schwartz functions", representations of reductive groups seminar, Institut de Mathematiques de Marseille, France.

2016: "Generalized and degenerate Whittaker models for representations of reductive groups", at the program "Automorphic forms, mock modular forms and string theory" at the Simons Center for Geometry and Physics of the State University of New York.

2016: "D-modules and equivariant distributions - old and new", Haifa University Colloquium.

2016: "Recent applications of classical theorems in D-modules", workshop on recent developments in representation theory, IMS, Singapore.

2015: "Holonomicity of spherical characters and applications to multiplicity bounds", arithmetics and algebraic geometry colloquium, Lille University, France.

2015: "Generalized and degenerate Whittaker models", seminar on reductive groups and automorphic forms, Paris, France and "Automorphic Forms, Geometry and Representation Theory" workshop, Hangzhou, China.

2015: Minicourse "Multiplicity one spaces" on a workshop "Generalizations of symmetric spaces", Nachsholim sea resort, Israel.

2014: "Schwartz functions and equivariant distributions on Nash manifolds", Mathematics Colloquium at Tel Aviv university, and BIRS workshop "Motivic Integration, Orbital Integrals, and Zeta-Functions", Banff, Canada.

2014: "Generalized and degenerate Whittaker models", Workshop on Representation Theory, National University of Singapore.

2014: "Distributions on p-adic groups, finite under the action of the Bernstein center", MFO workshop "Representation Theory and Analysis of Reductive Groups: Spherical Spaces and Hecke Algebras", Oberwolfach, Germany.

2013: "Relative Representation theory", plenary talk at the Israel Mathematical Union annual meeting, Haifa University.

2012: "Degenerate Whittaker functionals for real reductive groups", "Representations des groupes reductifs p-adiques" conference, Porquerolles island, France and 2012 conference on L-functions, Jeju island, Korea.

2011: "Annihilator varieties, highest derivatives, Whittaker functionals, and rank for representations of GL(n)", Analysis on Lie Groups workshop, Max Planck Institute for Mathematics in Bonn.

2011: "Measuring representations of GL(n,R)", Mathematics Colloquium at Tel Aviv university.

2010: "Gelfand pairs and Invariant distributions", Mathematics Colloquium at Rutgers University, New Jersey and Member Seminar at the Institute for Advanced Study, Princeton.

2009: "Relative Representation Theory of Reductive Groups Over Close Local fields", Mathematics Colloquium at New Ark campus of Rutgers University, New Jersey, and Mathematics Colloquium of the Ben Gurion University, Beer-Sheva, Israel.

2009: Two talks: "Gelfand pairs and symmetric pairs", and "Multiplicity One theorems - a uniform proof" at the Representation Theory XI conference at Dubrovnik, Croatia.

2008: "Gelfand pairs and Invariant distributions", Mathematics Colloquium at Columbia University.

2007: "Multiplicity One theorems", 10th Autumn Workshop on Number Theory, Hakuba and MFO workshop "Harmonische Analysis und Darstellungstheorie Topologischer Gruppen".

2007: (GL(n+1,F),GL(n,F)) is a Gelfand pair for any local field F, Israel Automorphic Forms seminar.