

CURRICULUM VITAE FOR JERZY WEYMAN

Department of Mathematics
Jagiellonian University
ul. Łojasiewicza 6
30-348 Kraków

EDUCATION

Ph.D., Mathematics, Brandeis University, 1980. Advisor D. Buchsbaum
M.S., Mathematics, N. Copernicus University. Toruń, Poland, 1977

PROFESSIONAL EXPERIENCE

2019-present Jagiellonian University, Professor of Mathematics
2013-2020 University of Connecticut,
Stuart and Joan Sidney Professor of Mathematics
1995-2013 Northeastern University, Professor of Mathematics
1990-1995 Northeastern University, Associate Professor of Mathematics
1985-1990 Northeastern University, Assistant Professor of Mathematics
1977-1985 Institute of Mathematics, Polish Academy of Sciences, Adiunkt.

RESEARCH AREAS: Mathematics

Commutative Algebra, Algebraic Geometry, Invariant Theory, Representations of Algebraic Groups and Coxeter Groups, Representations of Quivers.

RESEARCH AREAS: Others

Information Fusion, Geometric Complexity Theory.

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EDITING

- Editorial Board, Proceedings of the AMS
- Associate Editor, Journal of Commutative Algebra

SERVICE

- **Postdoctoral Fellows mentored**
 - Sema Gunturkun, 2018/2019,
 - Max Glick, 2016/2017,
 - Olgur Celikbas, 2014-2016, Presently Assistant Professor at University of West Virginia,
 - Ryan Kinser, 2011-2014, Presently Associate Professor, University of Iowa,
 - Claudiu Raicu (postdoc at MSRI), 2013, currently Assistant Professor, University of Notre Dame,
 - Jochen Kuttler, 2004–2005. Presently Associate Professor at University of Alberta, Edmonton.
 - Carol Chang, 1998-2001. Presently a researcher at CCR.
 - Harm Derksen, 1997-1998. Presently Professor, Northeastern University.
 - Peter Magyar, 1995-1998. Presently Associate Professor, Michigan State University.
- **Ph.D.'s supervised**
 - Andras Lorincz (2016), currently Assistant Professor at University of Oklahoma,
 - Nicola Sambin (University Tor Vergata, 2014),
 - Gufang Zhao (2014), currently Assistant Professor at University of Melbourne,
 - Federico Galetto (2013), currently Assistant Professor at Cleveland State University,
 - Thomas Hudson (2012), currently Assistant Professor at University of Wuppertal,

- Andrew Carroll (2012), currently Assistant Professor, dePaul University,
 - Cristina diTrapano (University Tor Vergata, Rome) (2012),
 - Steven V. Sam (MIT)(2012), currently Professor, University of California at San Diego,
 - Kavita Sutar (2012), currently a postdoc at Chennai Mathematical Institute,
 - Marcus Fries (2010), currently an Associate Professor at Dickinson State University,
 - Riccardo Aragona (University Tor Vergata, Rome)(2009), Assistant Professor (RTDB , SSD MAT/02) at the Department of Information Engineering, Computer Science and Mathematics of University of L'Aquila,
 - Kristin Webster (2009), Assistant Professor, Mathematics, California State University, Los Angeles,
 - Steve Lovett (2003), currently Professor, Wheaton College, Wheaton, IL.
 - Laura Galindo (2000), currently Assistant Professor, Central University, Caracas, Venezuela.
 - Olga Porras (1992), currently Associate Professor, University of the Andes, Merida, Venezuela.
 - Jacek Klimek (1988), Assistant Professor, N. Copernicus University, Poland, 1988-2002, currently coowner of computer company.
- **Mentoring of junior researchers**
 - Amelie Schreiber, formerly graduate student at UConn
 - Jason Ribeiro, graduate student at Northeastern,
 - Michael Magen, graduate student at University of Versailles
 - Victor Kreiman, currently postdoc at University of Georgia
 - Alexander Tchernev, currently Associate Professor at SUNY, Albany,
 - Mark Shimozono, currently Associate Professor at Virginia Tech
 - Witold Kraśkiewicz, currently Assistant Professor, N. Copernicus University, Toruń , Poland
 - Andrzej Daszkiewicz, Assistant Professor, N. Copernicus University, Toruń , Poland, 1988-2006,
 - **Conferences organized**
 - Organizer (with Josh Grochow and J.M. Landsberg), workshop on Complexity Theory, December 2016, Santa Fe Institute,
 - Organizer (with Josh Grochow, Cris Moore and Vlatko Vedral), workshop "Wildness in Computer Science, Physics and Mathematics", October 12-16, 2015, Santa Fe Institute,
 - Organizer, Conference for the 60-th birthday of Andrei Zelevinsky (with M. Braverman, V. Toledano-Laredo, B. Webster, J. Weitsman), May 2013
 - Organizer (with S. Kumar and J.M. Landsberg) MRC "Geometry and Representation Theory Related to Geometric Complexity and Other Variants of P. vs. NP", Snowbird, Utah, June 2012,
 - Organizer (with S. Kwak), Special Session on Syzygies, joint meeting of AMS and KMS, Seoul, December, 2009,
 - Organizer (with J. Landsberg, L. Lek-Heng, J. Morton), Workshop "Geometry and representation theory of tensors for computer science, statistics and other areas", American Institute of Mathematics, July 2008.
 - Organizer, Special Session on Representations of Quivers AMS meeting, Boston (2003).
 - Organizer (with G. Boffi), Conference in honor of David Buchsbaum, Genova, 1998 (funded by CNR). Served as coeditor for three issues of Journal of Pure and Applied Algebra (Vol. 152, No.1-3) that were dedicated to the confereces.
 - Organizer (with D. Eisenbud and A. Martsinkovsky), Conference in honor of David Buchsbaum, Northeastern University, October 18-20, 1997 (funded by 10K grant from NSA). This was a major event in Boston area. There were 15 principal speakers from England, France, Germany, Italy, Japan and USA and a poster session. Served as coeditor for the issue of J. Algebra (Vol. 230, no 1.) that was dedicated to Buchsbaum.

- Organizer, Special Session on Syzygies in Algebra and Algebraic Geometry AMS meeting, Boston (1995).
- Organizer (with A. Iarrobino and A. Martsinkovsky), Conference on syzygies and Algebraic Geometry, Northeastern University, 1995. We decided to extend our Special Session by three days to have an International Conference on Syzygies (October 7-11, 1995). Altogether there were more than 30 speakers from Canada, France, Germany, Japan, Norway, Romania, USA, Spain and Venezuela. The volume of extended abstracts was produced.
- Organizer, (with D. Buchsbaum and R. Stanley) Special Year in Algebra and Combinatorics (at Brandeis, MIT and Northeastern), 1990/1991 (partial NSF funding). The Special Year included three long term visitors (A. Lascoux, M. Hashimoto and K. Akin) for the semester appointments at three institutions, and a number of speakers at the seminars at Brandeis, MIT and Northeastern throughout the year. The cost was shared between three institutions and a special NSF grant.

- **Committees**

- Departmental Committees:
 - * Postdoc Committee, 2018/2019,
 - * Tenure and Promotion Committee, 2018/2019,
 - * Advisory Committee, 2017/2018,
 - * Postdoc Committee, 2017/2018,
 - * Postdoc Committee 2016/2017,
 - * Tenure and Promotion Committee, 2015/2016,
 - * Hiring Committee, 2014/2015,
 - * Graduate Coordinator, June 2008-August 2011,
 - * Hiring Committee, 2006/2007, 2009/2010, 2010/2011, 2011/2012,
 - * Hiring of a research post-doc Committee, 2010/2011
 - * Graduate Coordinator, October 1997 - October 1999.
 - * Graduate Committee Member, 1997-present,
 - * Raises Committee, 1992,
 - * Tenure and Promotion Committee, 1990-2013
 - * Co-PI on three Departmental proposals for Vigre and MTCP (2002-2004).
 - * Raises Committee, Spring 2008,
- College Committees:
 - * Sabbatical Committee, 2000/2001; chairman 2001/2002.
- External Committees:
 - * NSF Postdoc Panel, December, 2017,
 - * NSF panel, Commutative Algebra and Group Theory, December 2007,
 - * NSF panel, Commutative Algebra and Group Theory, December, 2004.
 - * NSF panel, Commutative Algebra and Algebraic Geometry, January 2001.
 - * Member of the Academic Sponsors Committee, MSRI, 2001-present.

- **Refereeing and Reviewing**

- Referee, Journal of the A.M.S.
- Referee, Crelle Journal of Mathematics
- Reviewer, Bulletin of A.M.S.
- Reviewer, Math Reviews.
- Referee, N.S.A. and N.S.F.
- Referee, Inventiones Mathematicae
- Referee, Journal of the AMS

- Referee, Journal of Algebraic Geometry
- Referee, Duke Mathematical Journal
- Referee, Transactions of the A.M.S.
- Referee, Proceedings of the A.M.S.
- Referee, Advances in Mathematics
- Referee, Commentarii Mathematici Helvetici
- Referee, Mathematische Annalen
- Referee, Proceedings of London Math. Society
- Referee, Journal of Algebra
- Referee, Manuscripta Mathematica
- Referee, Journal of Pure and Applied Algebra
- Referee, Transformation Groups
- Referee, Forum Mathematicum
- Referee, Colloquium Mathematicum

CONFERENCE, SEMINAR AND COLLOQUIUM TALKS

- Conference talks
 - Young tableaux in Algebra and Geometry, Toruń, Poland, August 1980,
 - Algebraic Geometry, Bucharest, 1981,
 - Commutative Algebra, Durham, July 1981,
 - Meeting of Polish Mathematical Society, Wrocław, 1983,
 - Commutative Algebra, MSRI, May 1987,
 - Commutative Algebra conference, Purdue University, 1987,
 - Free resolutions in Algebra and Algebraic Geometry, Sundance, 1990,
 - Algebraic Combinatorics conference, University of Michigan, 1991,
 - Cornell University workshop on combinatorics (B.Sturmfels, N. White organizers), 1991,
 - Syzygies in Algebraic Geometry, Oberwolfach, 1991,
 - Summer AMS Institute in Computational Algebra, Amherst, 1992,
 - Algebraic Groups, Monte Verita, May 1995,
 - International conference on Algebraic Groups, Kazimierz, Poland, 1996,
 - D. Buchsbaum's retirement conference, Brandeis University, 1997,
 - Algebraic Groups, Luminy, November 1999,
 - Workshop on interactions between algebraic geometry and noncommutative algebra, MSRI, February 2000,
 - Representations of Algebras ICRA, Bielefeld, September 2000,
 - Algebraic Groups, Oberwolfach, February 2001,
 - Conference in honor of Claudio Procesi, Rome, June 2001,
 - Algebraic Geometry, Oberwolfach, May 2002,
 - Commutative Algebra, Levico, June 2002,
 - International Algebra Conference, N. Copernicus University, Toruń, Poland, October 2002,
 - Workshop on interactions of Commutative Algebra and Representation Theory, MSRI, February 2003.

- NORTH6 conference on nilpotent orbits and representation theory, Kawaguchi-Ko, Japan, September 2004,
- Complex Algebraic Geometry, Luminy, October 2005,
- Texas Algebraic Geometry Seminar Conference, May 2006,
- Cluster Algebras, Cluster Tilted Algebras, workshop, Bielefeld, May 2006,
- Invariant Theory conference in honor of G. Schwartz, Fields Institute, Toronto, July, 2006,
- Workshop on Commutative Algebra and Combinatorics, Universite de Montreal, January 2007,
- Workshop on Commutative Algebra and Combinatorics, University of Halifax, January 2008,
- Workshop on Boij-Soderberg conjectures, Cornell University, March 2008,
- Conference on Cluster Algebras, Mexico City, December 2008,
- Workshop on Commutative Algebra and Combinatorics, University of New Foundland, St. Johns, January, 2009,
- Abel Symposium, Norway, June 2009,
- Conference for 60-th birthday of C. DeConcini, Cortona, Italy, June 2009,
- Conference on Kronecker Coefficients, Seville, November 2009,
- Summer school in tensors and representation theory, Norway, July 2010, 7 lectures,
- Workshop, on Commutative Algebra and Combinatorics, Lakehead University, Thunder Bay, Canada, January 2011,
- Representations of quivers and finite dimensional algebras, Oberwolfach, February 2011,
- P vs. NP workshop, ICERM, Brown University, July 2011,
- Representations of finite dimensional algebras, Sherbrooke, Quebec, September 2011,
- Geometrie Algèbre Geometrie Complexe, Luminy, March 2012,
- Conference in honor of Marc Levine, University Duisburg-Essen, June 2012,
- AlGeCom Day, Purdue University, October 2012,
- Representations of quivers and finite dimensional algebras, Oberwolfach, February 2014,
- Workshop "Cluster algebras and Hall algebras", Montreal, May 2014.
- Bootcamp and workshop on Complexity Theory, Simons Institute, Berkeley, September 2014, two talks
- Conference on cluster algebras, Seoul, South Korea, November 2014, two talks,
- Conference on geometric methods in representation theory, University of Iowa, November 2014,
- Conference on Commutative Algebra, Edinburgh, July 2015,
- Talk at the workshop on Wildness, Santa Fe Institute, October 2015,
- Southeast workshop on representations of Lie Algebras, North Carolina State University, October 2015,
- Talk at the workshop on complexity theory, Santa Fe Institute, December, 2016,
- Invited talk at the Symposium on Finite Free Resolutions, Texas Tech University, October, 2017
- Conference on geometric methods in representation theory, University of Iowa, November 2017,
- Special Session on Algebraic Geometry and Complexity Theory, AMS meeting, Nashville, April 2018 (50 minute talk),
- Special Session on Combinatorics of Nilpotent Orbits, AMS meeting, Boston, April 2018 (75 minute talk),
- Classical Algebraic Geometry, Oberwolfach, July 2018,
- Conference on geometric methods in representation theory, University of Iowa, November 2019,

- Memorial Conference for Ragnar Buchweitz, Münster, April 2019,
 - Workshop on Classical Algebraic Geometry, Budapest, April 2019,
 - "Faces of Algebra" conference, Kraków, Poland, June 2019.
- Colloquium talks
 - SUNY Albany, February, 2018,
 - Jagiellonian University, Kraków, Poland, December 2017,
 - York University, Toronto, Canada, October 2017,
 - University of West Virginia, March, 2017,
 - Dalrymple Lecture, University of Mississippi, October 2015,
 - University of Mississippi, October 2015,
 - Sierpiński Talk, Warsaw University, June 2015,
 - Keynote Speaker: Conference on geometric methods in representation theory, University of Missouri, November 2013,
 - Warsaw University, March 2012,
 - KAIST, Daejeon, South Korea, December 2009,
 - University Roma Tor Vergata, April 2008
 - Berkeley-Stanford Algebraic Geometry Colloquium, University of California, Berkeley, February 2008
 - University of Western Ontario, London, Canada, January 2008
 - University of Mississippi, March, 2006
 - Tripode Seminar, Lyon, 2004
 - University of Oklahoma 2004, 1988, 1985
 - SUNY-Albany 2002, 1986
 - Georgia Institute of Technology, 2001
 - University of Kansas, 2001, 1990, 1986
 - Nicholas Copernicus University, Toruń , Poland, 1998, 1996
 - University of Toronto, 1995
 - Central University, Caracas, 1991, 1990
 - University of Minnesota, 1988, 1979
 - Seminar talks
 - Algebraic Geometry Seminar, Texas A&M University, March 2018,
 - Algebraic Combinatorics Seminar, York University, Toronto, Canada, October 2017,
 - Conference on Geometric Methods in Representations of Artin Algebras, University of Missouri, November 2017,
 - Algebra Seminar, University of Notre Dame, April 2017,
 - David Eisenbud 70-th Birthday Conference, May 2017,
 - Conference on Geometric Methods in Representations of Artin Algebras, University of Missouri, November 2016,
 - Algebraic Geometry Seminar, Texas A&M, April 2016,
 - Valley geometry Seminar, UMass Amherst, April 2016,
 - Complexity Theory Seminar, Technical University, Berlin, January 2016,

- Algebraic Geometry Seminar, Texas A&M, November 2015,
- Motives Seminar, University Duisburg-Essen, two talks, December 2013,
- Algebra Seminar, Köln University, December 2013,
- Algebra Seminar, University of Münster, December 2013,
- Algebra Seminar, University of Connecticut, November 2013,
- Algebra Seminar, University of Bielefeld, October 2013,
- Several seminar talks at the MSRI program in Commutative Algebra, January-May, 2013,
- Algebraic Geometry Seminar, Jagiellonian University, Cracow, Poland, November 2012,
- Valley Geometry Seminar, UMass Amherst, October 2012,
- Geometry Seminar, Institute Fourier, Grenoble, March 2012,
- Algebra Seminar, Queens University, Kingston, ON, Canada, April 2011,
- Algebra seminar, CUNY, December 2010,
- Algebra Seminar, University of Basel, May 2010,
- Algebraic Geometry Seminar, KAIST, Korea, Decemer 2009 (3 lectures),
- Algebra Seminar, Texas A& M University, January, 2009 (2 talks),
- Algebra Seminar, Universite de Versailles, April 2008,
- Superalgebra Seminar, Universite de Nancy, April, 2008,
- Algebra Seminar, University of Michigan, February 2008,
- Algebra Seminar, University of Basel, June 2007,
- University Roma I, May 2007,
- University of Florence, March 2007,
- University Roma II, November 2005
- University of Florence, November 2005
- Paris Algebraic Geometry Seminar, October, 2005
- University of Versailles (2 talks), October, 2005
- University of North Carolina Chapel Hill Representation Theory Seminar, 2005
- Universty of Versailles (2 talks), 2004
- Paris Algebra Seminar, Institute Henri Poincaré, 2004
- University of Clermont-Ferrand Algebra Seminar, 2004
- University of Brest Algebra Seminar, 2004
- University of South Carolina Algebra Seminar, 2004
- Georgia Tech Algebra Seminar, 2004, 2001
- UC Berkeley Commutative Algebra Seminar, 2003, 2000
- MSRI Seminar on Discriminants, Opening Talk, 2003
- MIT Algebraic Geometry Seminar 2002, 1988
- MIT Infintite Dimensional Algebras Seminar 2001
- University Roma II Algebra Seminar, 1997, 1996 (2 talks), 1992 (2 talks), 1989
- Universty of Trieste Algebra Seminar, 1997
- MacGill University Algebra Seminar, 1997
- Scuola Normale di Pisa, 1992, 1989
- University of Catania Algebra Seminar, 1992, 1989 (4 talks)

- Politecnico di Torino Algebra Seminar, 1992
- University of Bologna Algebra Seminar, 1992
- University of Bari Algebra Seminar, 1992
- Central University, Caracas Algebra Seminar, 1991 (2 talks), 1990 (2 talks),
- Simon Bolivar University, Caracas, 1990
- University of Merida, Venezuela, 1990
- University of Minnesota Algebra Seminar, 1990, 1988
- University Roma I Algebra Seminar, 1989
- Univeristy of Messina Algebra Seminar, 1989
- Brandeis University Fellowship of the Ring Seminar, numerous talks (2003, about ten talks in the years 1985-2000)
- Nicholas Copernicus University Algebra Seminar, numerous talks, 1981-1985
- Brandeis University Special Talk, 1981
- AMS Special Sessions.
 - Invariant Theory, Denton, TX, 1986,
 - Syzygies in Algebraic Geometry, Phoenix, AZ, 1990,
 - Commutative Algebra, Tallahassee, FL, 2004,
 - Commutative Algebra, Sydney, 2009,
 - Representations of Artin Algebras, Riverside, CA, November 2009,
 - Geometry of varieties, syzygies and computations, Seoul, December 2009,
 - Representations of finite dimensional algebras, Syracuse University, October 2010,
 - Algebraic Groups, Notre Dame University, November 2010,
 - Representations of algebras, University of Iowa, March 2011,
 - Complexity Theory, Vanderbilt University, April 2018,
 - Invariant Theory, University of Michigan, April 2018,

ACADEMIC VISITS AND AFFILIATIONS

- Karcher Visitor, University of Oklahoma, 1985 and 1988,
- University of Catania, April, May 1989, Scuola Normale, Pisa, June 1989.
- Central University and IVIC, Caracas, Venezuela, November 1990,
- Central University and IVIC, Caracas, Venezuela, November 1991,
- Scuola Normale, Pisa, October, 1992, University Roma II, November 1992,
- University of Toronto, September 1995,
- N. Copernicus University, Toruń, Poland, April, May, 1996,
- University Roma II, June 1996,
- University Roma II, May 1997,
- N. Copernicus University, Toruń , Poland, June 1997, June 1998,
- Member, MSRI, February 2000,
- Saitama University, Japan, August 2000,

- Saitama University, Japan, March 2002,
- University of Pescara, April-June, 2002,
- Member, MSRI, February 2003,
- Frontier Talks, Texas A& M University, November, 2003,
- University of Versailles, April, 2004,
- Saitama University, September, 2004,
- Karcher Visitor, University of Oklahoma, September, 2004,
- University of Versailles, October, 2005,
- INDAM Visiting Professor, University Roma II, March 15-May 15, 2007,
- University of Basel, June 2007,
- University of Nancy, April, May 2008,
- University of Rome, Tor Vergata, April 2008,
- KAIST, Dejeon, Korea, December 2009,
- University of Rome, Tor Vergata, Visiting Professor, May 2011,
- N. Copernicus University, Toruń, Poland, EU Visiting Professor June 2011,
- Institute J. Fourier, Grenoble, February 2012,
- University Duisburg-Essen, April, May, 2012,
- University Tor Vergata Rome, June 2012,
- University Duisburg-Essen, June-July, 2013,
- University Duisburg-Essen, September-December, 2013.
- Technical University, Berlin, January 2016,
- University of Florence, May-June 2016,
- University La Sapienza, Rome, May-June 2017,
- University of Evora, Portugal, May 2018,
- Jagiellonian University, Kraków, Poland, Spring 2019,

PRIZES, AWARDS, AND GRANTS

- Banach Prize of Polish Mathematical Society for scientific achievement, 2021,
- MAESTRO NCN - UMO-2019/34/A/ST1/00263 - Research in Commutative Algebra and Representation Theory,
- OPUS NCN grant UMO-2018/29/BST1/01290,
- NAWA POWROTY - PPN/PPO/2018/1/00013/U/00001 - Applications of Lie algebras to Commutative Algebra,
- Wacław Sierpiński Medal and Lecture, Polish Mathematical Society and Warsaw University, 2015.
- Simons Research Professor, MSRI, January-May, 2013.

- Humboldt Forschungspreis, March 2012.
- NSF grant DMS-1802067, \$ 282,000, 07/01/2018-06/30/2021.
- NSF grant DMS-1400740, \$ 288,666, 07/01/2014-06/30/2018.
- NSF grant DMS-0901185, \$ 200,000, 07/01/2009-06/30/2014.
- NSF grant DMS-0600229 Geometric aspects of Quiver Representations, \$ 120,000, 07/01/06-06/30/09.
- NSF grant DMS-0300064 Applications of Quiver Representations, \$ 120,000, 07/01/03-06/30/06.
- NSF grant DMS-0070658 Applications of Representations of Quivers, \$ 94,500, 07/01/00-06/30/03.
- NSF grant DMS-9700884 Varieties related to Algebraic Group Actions, \$ 75,000, 07/01/97-06/30/00.
- NSF grant DMS-9403703 Syzygies of Special Varieties, \$ 73,050, 07/01/94-06/30/97.
- NSF grant DMS-9102432 Mathematical Sciences: Research in Commutative Algebra, \$ 72,640, 07/01/91-12/31/94.
- NSF grant DMS-8903466 Research in Commutative Algebra, \$ 67,200 07/01/89-12/31/91.
- NSF grant DMS-8702809 Research in Commutative Algebra and Invariant Theory, \$ 65,400, 07/01/87-06/30/89.
- J. Waclawek Prize of Institute of Mathematics of Polish Academy of Sciences for an outstanding Ph.D. thesis, 1981,
- Prize of Polish Mathematical Society for young mathematicians, for papers published in years 1979-1982, 1982,
- Kuratowski Prize of Polish Mathematical Society (joint with Piotr Pragacz), 1983,
- M. Waclawek Prize of the Institute of Polish Academy of Sciences, 1982,
- Prize of the Polish Mathematical Society for young mathematicians, 1982.