Born July 30, 1964 in Seattle, Washington
Citizenship: United States
Married, two children

## Education

| 1986 | A.B. | Mathematics | University of California, Berkeley |
| 1988 | M.S. | Mathematics | Yale University |
| 1989 | M.Phil | Mathematics | Yale University |
| 1990 | Ph.D. | Mathematics | Yale University |

Thesis Advisor: George B. Seligman
Thesis: Projective Modules over Lie Algebras of Cartan Type

## Employment

| 1990–91 | Visiting Assistant Professor | Auburn University |
| 1991–95 | Visiting Assistant Professor | Northwestern University |
| 1992–95 | NSF Postdoctoral Fellow | Northwestern University |
| 1994–98 | Assistant Professor | Utah State University |
| 1998–02 | Associate Professor | Utah State University |
| 2001–03 | Associate Professor | University of Georgia |
| 2003–10 | Professor | University of Georgia |
| 2010– | Distinguished Research Professor | University of Georgia |

## Research Interests

Representation Theory of Algebraic Groups, Quantum Groups, and Lie Superalgebras
Categorical and Homological Methods in Representation Theory
Cohomology and Support Varieties for Algebraic and Finite Groups
Algebraic and Geometric Methods in Lie Theory
Monoidal (Tensor) Triangulated Categories

## Visiting Research Positions (with funding)

| April 1993 | University of Virginia |
| April 1995 | University of Virginia |
| July 1998 | Aarhus University, Denmark |
| June–July 2002 | Visiting Professor, Osaka City University, Japan |
| Jan–June 2003 | EPSRC Research Fellow, Oxford University, England |
| May 2004 | Institute for Mathematical Sciences, University of Virginia |
| June 2005 | Ecole Polytechnique Federale, Lausanne, Switzerland |
| Jan–June 2006 | Visiting Professor, University of Virginia |
| March 2008 | General Member, Mathematical Sciences Research Institute, Berkeley, CA |

| July 2009 | East China Normal University, Shanghai, China |
|---|---|
| July 2009 | Peking University, Beijing, China |
| Jan–June 2010 | Visiting Professor, University of Sydney, Australia |
| March–June 2010 | University of New South Wales, Sydney, Australia |
| April 2010 | University of Melbourne, Australia |
| July 2013 | Morningside Institute, Beijing, China |
| May-June 2014 | Centre de Recherches Mathematiques (CRM), Montreal, Canada |
| Feb-March 2015 | Mittag-Leffler Institute, Stockholm, Sweden |
| Feb-March 2018 | General Member, Mathematical Sciences Research Institute, Berkeley, CA |
| Jan 2020 | Visiting Professor, SUSTech Mathematical Institute, Shenzhen, China |
| April 2023 | Visiting Professor, Northeastern University |
| May-June 2023 | Université Clermont Auvergne, Clermont-Ferrand, France |
| March 2024 | Academia Sinica, Taipei, Taiwan |
| March 2024. | Peking University, Beijing China |

## NSF Individual Research Grants: Principal Investigator

1. National Science Foundation Grant DMS–9206284, Mathematical Sciences Postdoctoral Research Fellowship, 1992-95, $75,000

2. National Science Foundation Grant DMS–9500715, *Cohomology and Representation Theory of Algebraic Groups and Lie Algebras*, 1995-98, $59,050

3. National Science Foundation Grant DMS–9800960, *Cohomology and Representation Theory: Algebraic Groups, Finite Groups and Lie Algebras*, 1998-2001, $72,900

4. National Science Foundation Grant DMS–0136082, *Cohomology and Representation Theory: Reductive Algebraic Groups and Related Structures*, 2001-04, $100,995

5. National Science Foundation Grant DMS–0400548, *Cohomology and Representation Theory*, 2004-07, $118,359

6. National Science Foundation Grant DMS–0654169, *Cohomological Methods in the Representation Theory of Algebraic Groups, Quantum Groups and Superalgebras*, 2007-10, $159,744

7. National Science Foundation Grant DMS–1002135, *Cohomology, Geometry and Representation Theory: Algebraic Groups, Quantum Groups and Lie Superalgebras*, 2010-13, $169,976

8. National Science Foundation Grant DMS–1402271, *Representation Theory, Geometry and Cohomology in Tensor Triangulated Categories*, 2014-17, $158,301

9. National Science Foundation Grant DMS–1701768, *Representations, Cohomology and Geometry in Tensor Triangulated Categories*, 2017-20, $165,001

10. National Science Foundation Grant DMS–2101941, *Monoidal Triangular Categories, Representation Theory, Cohomology and Geometry*, 2021-24, $232,374

11. National Science Foundation Grant DMS–2401184, *Representation Theory and Geometry in Monoidal Triangular Categories*, 2024-27, $255,298

**NSF Workforce Grants**

1. Co-Principal Investigator on National Science Foundation VIGRE Grant DMS–0089927, *Vertical Integration of Research and Educational Activities in Mathematics at the University of Georgia*, 2001-06, $2,451,334

2. Principal Investigator on National Science Foundation VIGRE Grant DMS–0738586, *Vertical Integration of Research and Education in Mathematics at the University of Georgia*, 2008-13, $3,819,865

**NSF and NSA Conference Grants**

1. Co-Principal Investigator on National Science Foundation Grant DMS–0852373, *Southeastern Lie Theory Workshop Series*, 2009-11, $60,000

2. Co-Principal Investigator on National Science Foundation Grant DMS–1206255, *Southeastern Lie Theory Workshop Series*, 2012-14, $38,750

3. Co-Principal Investigator on National Science Foundation Grant DMS–1544407, *Southeastern Lie Theory Workshop Series*, 2015-17, $49,488

4. Co-Principal Investigator on National Science Foundation Grant DMS–1801804, *Southeastern Lie Theory Workshop Series*, 2018-21, $49,970

5. Co-Principal Investigator on National Science Foundation Grant DMS–2303977, *Southeastern Lie Theory Workshop Series*, 2023-25, $42,500

6. Principal Investigator on National Security Agency Conference Grant, *Advances in Lie Theory, Representation Theory and Combinatorics*, held at SLMath, Berkeley, CA, 2023-25, $21,850

**Other Research Grants**

1. Utah State University: Faculty Research Grant, *Representation Theory of Algebraic Groups and Lie Algebras*, 1996-97, $12,088

**Undergraduate and Graduate Academic Honors/Awards/Recognition**

| | |
|---|---|
| 1986 | Percy Lionel Davis Award (departmental prize), University of California, Berkeley |
| 1986 | Graduated with Highest Honors in Mathematics, University of California, Berkeley |
| 1986- | Phi Beta Kappa, University of California, Berkeley (Member, elected 1986) |
| 1986–89 | Annual Departmental Stipend Prize, Yale University |
| 1986–90 | Teaching Fellowship, Yale University |
| 1987–90 | Research Assistantship, Yale University |

## University Faculty Academic Honors/Awards/Recognition

1999–00    Researcher of the Year, Department of Mathematics and Statistics, Utah St. University
2007    Creative Research Medal, University of Georgia
2008    McCay Award (for distinguished research, teaching and service), Department of Mathematics, University of Georgia
2010    Distinguished Research Professorship, University of Georgia
2016    Lamar Dodd Creative Research Award, University of Georgia

## National and International Academic Honors/Awards/Recognition

1987-    American Mathematical Society, Member (Life Member from 2014-)
1992-95    National Science Foundation Postdoctoral Fellowship
2007    American Mathematical Society One-Hour Invited Address
2013-    Fellow of the American Mathematical Society (Class of 2013, Inaugural Class)
2021-    Association for Mathematical Research, Founding Member
2024    *Representation Theory and Related Geometry: Progress and Prospects* at the University of Georgia, Athens, GA (60th birthday conference), funded by NSF, NSA, and a UGA State of the Art Conference Grant

## Administrative Experience

2000–01    Chair of the Colloquium/Visitor Committee
2000–01    MSRI Representative for Utah St. University
2003–04    Chair of the Facilities Committee
2004    Co-Director of the University of Georgia VIGRE Program, January-April
2005–07    Chair of the VIGRE Grant Writing Committee
2008–15    Director of the University of Georgia VIGRE Program
2012–13    Chair of the American Mathematical Society Southeastern Section Program Committee
2014-15    Franklin College Faculty Senate President-Elect, University of Georgia
2015-16    Franklin College Faculty Senate President, University of Georgia
2018–19    Chair of the American Mathematical Society Program Committee for the National Meetings
2019-20    Vice Chair of the Executive Committee
2022-23    Vice Chair of the Executive Committee
2023-24    Vice Chair of the Executive Committee

## Membership on Editorial Boards

2005–10   Editor for *Communications in Algebra*
2010–23   Editor for the *Journal of Pure and Applied Algebra*
2023–27   Editor for the *Transactions of the American Mathematical Society*

2005–06   Editor for the Proceedings of the 2004 AMS Summer Research Institute Conference: Representations of Algebraic Groups, Quantum Groups and Lie Algebras
2011–12   Editor for the Proceedings of the Southeastern Lie Theory Workshop Series I (2009-11)
2014–15   Editor for the Proceedings of the Southeastern Lie Theory Workshop Series II (2012-14)
2022–23   Editor for the Proceedings of the Southeastern Lie Theory Workshop Series III (2015-21)

## Service on Departmental Committees: Utah State

1995–96   Colloquium Committee, Search Committee
1996–97   Colloquium Committee, Search Committee, Graduate Committee
1997–98   Colloquium Committee, Graduate Committee
1998–99   Colloquium Committee, Graduate Committee
1999–00   Undergraduate Committee, Colloquium/Visitor Committee, Honors Committee
2000–01   Colloquium/Visitor Committee, Honors Committee

## Service on Departmental Committees: Georgia

2001-    Hiring Committee [Tenure-Track and Postdoctoral Positions]
2002–04   Facilities Committee
2004–06   Executive Committee
2006–07   Personnel Committee
2007–08   Graduate Committee
2008-15   VIGRE Management Committee
2009     McCay Award Selection Committee
2009-10   Cantrell Lecture Series Committee
2009-11   Executive Committee
2015     McCay Award Selection Committee
2015-16   Cantrell Lecture Series Committee
2017     McCay Award Selection Committee
2018-19   Cantrell Lecture Series Committee
2018-20   Executive Committee (Secretary: 2018-19)
2019     McCay Award Selection Committee
2021     McCay Award Selection Committee
2022-24   Executive Committee
2023     McCay Award Selection Committee

## University Service: Georgia

| | |
|---|---|
| 2011–15 | Office for the Vice President for Research (OVPR) Advisory Council |
| 2012–13 | Franklin College of Arts and Sciences Special Professorship Selection Committee |
| 2013–14 | Franklin College of Arts and Sciences Special Professorship Selection Committee (Chair) |
| 2012–15 | Member of the Franklin College of Arts and Sciences Faculty Senate (first term) |
| 2012–14 | Member of the Franklin College Faculty Affairs Committee |
| 2015–18 | Member of the Franklin College of Arts and Sciences Faculty Senate (second term) |
| 2016–21 | Franklin College of Arts and Sciences Special Professorship Selection Committee |
| 2017–19 | Chair of the Franklin College of Arts and Sciences Special Professorship Selection Committee |
| 2016–19 | Office for the Vice President for Research (OVPR) Research Awards Selection Committee |
| 2020-22 | University Program Review and Assessment Committee (PRAC) |
| 2020-21 | Program Review Committee for the Computer Science Department (Chair) |
| 2020-21 | Program Review Committee for the Entomology Department |
| 2021-22 | Program Review Committee for the Plant Biology Department |
| 2024- | Franklin College of Arts and Sciences Committee on Fellows and Major Awards |

## National and International Service

| | |
|---|---|
| 2009– | Scientific Committee, Southeastern Lie Theory Network |
| 2011–13 | American Mathematical Society Southeastern Section Program Committee |
| 2011–13 | American Mathematical Society Committee on Committees |
| 2014 | Chair of an Invited Address Session (Algebra) at the International Congress of Mathematicians |
| 2017–20 | American Mathematical Society, Program Committee for the National Meetings |

## Service as a Conference Organizer: Major Conferences

1997  Organizer for the Minisymposium on Lie Theory, Matrix Theory and Combinatorics at the MAA meeting in Logan, UT

2002  Organizer for a Workshop on Modular Representation Theory, Korea Institute for Advanced Study, Seoul, Korea

2004  Organizer for the AMS Summer Research Conference: Representations of Algebraic Groups, Quantum Groups, and Lie Algebras, Snowbird, UT

2008  Chair of the Organizing Committee for a Workshop on Homological Methods in Representation Theory, Mathematical Sciences Research Institute, Berkeley, CA

2010  Organizer for the VIGRE Summer School on Lie and Representation Theory (two weeks) University of Georgia, Athens, GA

2010  Chair of the Organizing Committee for the Workshop on Lie Theory, Homological Methods and Applications, University of Georgia, Athens, GA

2012  Organizer for the Conference on Categorification of Quantum Groups and Representation Theory, North Carolina State University, Raleigh, NC

2012  Organizer for the Summer School on Cohomology and Supports in Representation Theory University of Washington, Seattle, WA

2014  Chair of the Organizing Committee for the Conference on Representations of Lie Algebras and Superalgebras, University of Georgia, Athens, GA

2018  Chair of the Organizing Committee for the RTG Summer School on Lie Theory, University of Georgia, Athens, GA

2018  Chair of the Organizing Committee for the Workshop on Representations of Algebraic Groups and Superalgebras, University of Georgia, Athens, GA

2020  Organizer for the Workshop on Representation Theory of Algebraic and Quantum Groups, University of Virginia, Charlottesville, VA

2021  Organizer for the 12th Southeastern Lie Theory Workshop, College of Charleston, Charleston, SC

2024  Organizer for the Workshop on Advances in Lie Theory, Representation Theory and Combinatorics, Simons Laufer Mathematical Sciences Institute, Berkeley, CA

**Service as a Conference Organizer: AMS Special Sessions**

1994   Special Session on Lie Theory at the 900th AMS Meeting in Chicago, IL

1998   Special Session on Representation Theory of Algebraic Groups, Quantum Groups, and Lie Algebras at the 932nd AMS Meeting in Manhattan, KS

2001   Special Session on Representation Theory of Finite and Algebraic Groups at the National AMS Meeting in New Orleans, LA

2005   Special Session on Representation Theory of Lie Algebras at the National AMS Meeting in Atlanta, GA

2007   Special Session on Cohomology and Representation Theory at the National AMS Meeting in New Orleans, LA

2007   Special Session on Lie and Representation Theory at the 1030th AMS Meeting in Murfreesboro, TN

2009   Special Session on Representation Theory of Lie Algebras and Algebraic Groups at the National AMS Meeting in Washington D.C.

2011   Special Session on Lie Algebras, Algebraic Groups and Related Topics at the National AMS Meeting in New Orleans, LA

2016   Special Session on Representation Theory of Algebraic Groups at the National AMS Meeting in Seattle, WA

2016   Special Session on Lie Theory, Representation Theory and Geometry at the 1117th AMS Meeting in Athens, GA

2017   Special Session on Representations of Lie Algebras at the Congress of the Americas in Montreal, Canada

2017   Special Session on Categorical Methods in Representation Theory at the 1133rd AMS Meeting in Orlando, FL

2019   Special Session on Homological Methods in the Representation Theory of Groups and Algebras at the Joint Vietnam-USA Mathematical Meeting, Quy Nhon City, Vietnam

2020   Special Session on Representation Theory of Algebraic and Quantum Groups: A Tribute to the Work of Cline, Parshall and Scott at the 1155th AMS Meeting in Charlottesville, VA (meeting cancelled due to COVID-19)

2022   Special Session on Representation Theory of Algebraic and Quantum Groups: A Tribute to the Work of Cline, Parshall and Scott at the 1175th AMS Meeting in Charlottesville, VA (meeting cancelled due to Omicron)

2023   Special Session on Representation Theory of Algebraic and Quantum Groups: A Tribute to the Work of Cline, Parshall and Scott at the 1184th AMS Meeting in Atlanta, GA

2023   Special Session on Representation Theory of Finite and Algebraic Groups at the 1189th AMS Meeting in Mobile, AL

2024   Special Session on Representations of Lie Algebras and Lie Superalgebras at the 1196th AMS Meeting in San Francisco, CA

2024   Special Session on Representation Theory: Lie Theory and Geometry at the Joint International AMS-UMI Meeting in Palermo, Italy (Sicily)

## Service as a Reviewer

| | |
|---|---|
| 1991– | Refereeing duties for numerous journals |
| 1992–06 | Reviewer for Mathematical Reviews |
| 1996– | Reviewer for NSA grant proposals (including service on NSA Panels) |
| 1997– | Reviewer for NSF grant proposals (including service on 9 NSF Proposal Review Panels) |
| 2000– | Reviewer for NSERC grant proposals |
| 2011 | Reviewer for Simons Collaboration Grants in Mathematics |

## Other Professional Activities

| | |
|---|---|
| 2011 | Consultant for the American Association for the Advancement of Science (AAAS) |
| 2023 | Co-author for *Remembering Georgia Benkart*, Notices of the AMS, Volume 70, Number 3, 420-433. |

## Service on Thesis Committees

| | |
|---|---|
| 2001 | Cora Neal, Utah State University, Ph.D Committee |
| 2001 | Russel Carlson, Utah State University, Ph.D Committee |
| 2007 | G. Michael Guy, University of Georgia, Ph.D Committee |
| 2007 | Emille K. Davie, University of Georgia, Ph.D Committee |
| 2007 | Philip Bergonio, University of Georgia, M.A. Committee |
| 2008 | Kenyon Platt, University of Georgia, Ph.D Committee |
| 2009 | Jeremiah Hower, University of Georgia, Ph.D Committee |
| 2012 | Benjamin Wyser, University of Georgia, Ph.D Committee |
| 2012 | Wenjing Li, University of Georgia, Ph.D Committee |
| 2016 | Patrick McFaddin, University of Georgia, Ph.D Committee |
| 2016 | Maren Turbow, University of Georgia, Ph.D Committee |
| 2016 | Matthew Zawodniak, University of Georgia, Ph.D Committee |
| 2022 | Jonathan Gruber, Ecole Polytechnique Federale de Lausanne, Switzerland, External Examiner |
| 2023 | John Wagner, University of Georgia, Ph.D Committee |

## Service as a Secondary Ph.D Advisor

1991–93   Joseph P. Gottman, Northwestern University, Secondary Ph.D Thesis Advisor
        Thesis: Characters on Restricted Lie Algebras

1993–95   Christopher P. Bendel, Northwestern University, Secondary Ph.D Thesis Advisor
        Thesis: Support Varieties for Infinitesimal Algebraic Groups

2010–13   Tiago Macedo, Universidade Estadual de Campinas, Co-Ph.D Thesis Advisor
        Thesis: Characters and Cohomology of Modules for Kac-Moody Algebras
          and Generalizations

2019-21   Kent B. Vashaw, Louisiana St. University, Secondary Ph.D Thesis Advisor
        Thesis: Noncommutative Tensor Triangular Geometry and its Applications
          to Representation Theory

## Service as a Major Ph.D Advisor

2004–08   Bobbe J. Cooper, University of Georgia, Ph.D Thesis Advisor
        Thesis: Support Varieties of Tilting Modules

2005–08   Caroline B. Wright, University of Georgia, Ph.D Thesis Advisor
        Thesis: Second Cohomology Groups of Frobenius Kernels

2005–09   Irfan Bagci, University of Georgia, Ph.D Thesis Advisor
        Thesis: Cohomology and Support Varieties for Lie Superalgebras

2009–12   Nham V. Ngo, University of Georgia, Ph.D Thesis Advisor
        Thesis: Cohomology and Geometry for Frobenius Kernels of Algebraic Groups

2012–14   Andrew Talian, University of Georgia, Ph.D Thesis Advisor
        Thesis: Endotrivial Modules for Classical Lie Superalgebras

2012–15   Theresa Brons, University of Georgia, Ph.D Thesis Advisor
        Thesis: Rational and Line Bundle Cohomology for Reductive Algebraic Groups

2012–16   William Hardesty, University of Georgia, Ph.D Thesis Advisor
        Thesis: On Support Varieties for Algebraic Groups

2015–19   Ziqing Xiang, University of Georgia, Ph.D Thesis Advisor
        Thesis: Representation Theory for Schur and Hecke Algebras of Classical Type

2016–19   Andrew Maurer, University of Georgia, Ph.D Thesis Advisor
        Thesis: Cohomology and Support Varieties for Classical Lie Superalgebras

2018-22   L. Andrew Jenkins, University of Georgia, Ph.D Thesis Advisor
        Thesis: The Nilpotent Cone for Classical Simple Lie Superalgebras

2019-22   David Galban, University of Georgia, Ph.D Thesis Advisor
        Thesis: Cohomology and Representation Theory for Lie Superalgebras

2022-   Matthew Hamil, University of Georgia, Ph.D Thesis Advisor

2023-   Gabriel Loos, University of Georgia, Ph.D Thesis Advisor

## Service as a Postdoctoral Research Advisor

| 2001–03 | David Hemmer, University of Georgia, Senior Sponsoring Scientist for NSF Postdoctoral Fellow |
| 2003–06 | Nadia Mazza, University of Georgia, Postdoctoral Research Advisor |
| 2004–07 | Jonathan Kujawa, University of Georgia, Senior Sponsoring Scientist for NSF Postdoctoral Fellow |
| 2008–10 | Benjamin Jones, University of Georgia, Postdoctoral Research Advisor |
| 2009–12 | Christopher Drupieski, University of Georgia, Postdoctoral Research Advisor |
| 2015–18 | Paul Sobaje, University of Georgia, Postdoctoral Research Advisor |
| 2017–20 | Chun-Ju Lai, University of Georgia, Postdoctoral Research Advisor |
| 2020–21 | Arik Wilbert, University of Georgia, Postdoctoral Research Advisor |
| 2022–25 | Tekin Karadag, University of Georgia, Postdoctoral Research Advisor |

## Service as a Postdoctoral Teaching Advisor

| 2004–05 | Su-ion Ih, University of Georgia, Postdoctoral Teaching Advisor |
| 2014–17 | Abbey Bourdon, University of Georgia, Postdoctoral Teaching Advisor |
| 2016–19 | Kyle Chapman, University of Georgia, Postdoctoral Teaching Advisor |
| 2019–22 | Joseph Hoisington, University of Georgia, Postdoctoral Teaching Advisor |

## Other Advising

| 1995–96 | Amanda Brown, Utah St. University, Senior Honors Thesis Advisor |
| 1999–00 | Kady Schneiter, Utah St. University, Masters Thesis Advisor |
| 2017-19 | Nikolay Grantcharov (undergrad at U.C. Berkeley), Undergraduate Research Internship Advisor |
| 2017-19 | Jerry Wu (undergrad at U.C. Berkeley), Undergraduate Research Internship Advisor |
| 2020-21 | Nathan Wenger (undergrad at U.C. Berkeley), Graduate School Application Advisor |
| 2020-21 | Hank Morris (undergrad at the University of Georgia), Graduate School Application Advisor |
| 2023- | Nate Harman, Pre-Tenure Advisor |

## Visiting Scholars Hosted

| 2010–11 | Tiago Macedo, Universidade Estadual de Campinas, Brazil, Ph.D Exchange Student |
| Aug-Dec 2013 | Tobias Kildetoft, Aarhus University, Denmark, Ph.D Exchange Student |
| Jan-May 2014 | Cornelius Pillen, University of South Alabama, Visiting Professor |
| Jan 2018 | Nadia Mazza, Lancaster University, UK, Visiting Professor |
| Oct-Dec 2023 | Jonathan Gruber, University of York, UK, Postdoctoral Research Scholar |

**Lectures**

1989    Algebra Seminar, Yale University, May

1990    Algebra Seminar, Yale University, April
Algebra Seminar, Auburn University, October
Algebra Seminar, University of Washington, December

1991    Algebra Seminar, North Carolina St. University, March
Algebra Seminar, Auburn University, April
Algebra Seminar, University of Washington, August

1992    Algebra Seminar, Northwestern University, February
Algebra Seminar, Yale University, April
Lie Theory Seminar, University of Wisconsin, Madison, April
Conference on the Structure and Representation Theory of Lie Algebras, Yale University, April
Conference on Connections between Topology and Representation Theory, Northwestern University, May
Algebra Seminar, University of Washington, August

1993    Midwest Group Theory Seminar, University of Chicago, March
Colloquium, Auburn University, March
Colloquium, University of Georgia, March
Algebra Seminar, University of Virginia, March, April
Colloquium, Johns Hopkins University, April
Algebra Seminar, Yale University, April
III International Conference on Non-associative Algebra and its Applications, University of Oviedo, Spain, July

1994    Algebra Seminar, University of Washington, January
Colloquium, Kansas St. University, January
Algebra Seminar, Kansas St. University, January
Colloquium, Michigan St. University, February
Series of four lectures on Representations of Algebraic Groups and Lie Algebras, Queens University, Kingston, Ontario, Canada, February
Colloquium, Utah St. University, March
890th AMS Meeting at Kansas St. University, Special Session on Representations of Algebraic and Quantum Groups, March
Algebra Seminar, Northwestern University, April

1994   Algebra Seminar, University of Florida, April

Contributed Talk, Canadian Mathematical Society Conference on Representations of Groups and Algebras, Banff, Canada, June

895th AMS Meeting at Oklahoma St. University, Special Session on Representations of Algebraic Groups, October

Lie Theory Seminar, University of Wisconsin, Madison, December

1995   897th AMS Meeting at San Francisco, CA, Special Session on Cohomology of Finite Groups, January

Symposium on Lie Algebras and their Representation Theory, Invited Lectures (2), Seoul National University, Korea, January

Algebra Seminar, Northwestern University, February

Topology Seminar, Northwestern University, March

Colloquium, University of Windsor, April

Algebra Seminar, University of Virginia, April

1996   908th AMS Meeting in Orlando, FL, Special Session on Algebra, Cohomology and Polynomial Identities, January

Colloquium, Kansas St. University, March

Algebra Seminar, Northwestern University, April

911th AMS Meeting in Baton Rouge, LA, Special Session on Representations of Finite Groups, Algebraic Groups and Lie Algebras, April

Monster/Lie Algebra Conference at the Ohio St. University, Invited Talk, May

Conference on Combinatorial Matrix Theory at Utah St. University, May

AMS Summer Research Institute at Seattle, WA, Plenary Talk, July

1997   Colloquium, University of Wyoming (sponsored by the Rocky Mountain Consortium), March

Representation Theory Seminar, University of Utah, March

MAA Special Session on Lie Theory, Matrix Theory and Combinatorics, Utah St. University, April

Algebra Seminar, Oxford University, June

Representation Theory Seminar, Oxford University, June

AMS Summer Research Conference at Seattle, WA, July

1998   932nd AMS Meeting in Manhattan, KS, Special Session on Cohomology of Finite Groups,
          March
       Algebra Seminar, Northwestern University, April
       Group Theory Seminar, University of Chicago, April
       Lie Theory Seminar, University of Wisconsin, Madison, April
       Representation Theory Seminar, Princeton University, May
       Symposium on Modular Representations of Finite Groups, University of Virginia, May
       Algebra Seminar, University of Washington, May
       Colloquium, University of Oregon, May
       International Conference on Representation Theory, East China Normal University, Shang-
          hai, China, June
       Algebra Seminar, Aarhus University, Denmark, July
       Group Theory Seminar, University of Georgia, October
       Colloquium, University of South Alabama, (sponsored by NSF EPSCoR program), October
       Colloquium, Auburn University, (sponsored by NSF EPSCoR program), October
       Algebra Seminar, University of Virginia, December

1999   Algebra Seminar, Yale University, March
       U. C. Lie Theory Conference, Invited Talk, University of California, Santa Cruz, April
       943rd AMS Meeting in Buffalo, NY, Special Session on Representation Theory of Lie Alge-
          bras, April
       Colloquium, Kansas St. University, June
       945th AMS Meeting in Melbourne, Australia (joint with Australian Math. Soc.) Special
          Session on Algebraic Groups and Related Topics, July

2000   Colloquium, University of California, Riverside, March
       Group Theory Seminar, University of Chicago, April
       953rd AMS Meeting in South Bend, IN, Special Session on Representation Theory of Groups
          and Related Objects, April
       Conference on Representation Theory and Computational Algebra, University of Georgia,
          May
       Conference on Cohomology of Finite Groups: Interactions and Applications, Oberwolfach,
          Germany, July
       Special Topics Seminar (2 lectures), Utah St. University, October
       Colloquium, University of Georgia, December

2001   962nd AMS Meeting in New Orleans, LA, Special Session on Group Cohomology with
          Applications to Homotopy Theory and Representation Theory, January
       Special Topics Seminar, Utah St. University, February
       Colloquium, University of Oregon, May
       Algebra Seminar, University of Washington, May
       International Conference on Representations of Algebraic and Quantum Groups, Kunming,
          China, July
       Group Cohomology and Representation Theory Seminar, University of Georgia, September
       Colloquium, University of South Alabama, October
       Conference on Geometric and Combinatorial Representation Theory, Seoul National
          University, Seoul, Korea, October

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2002    Lie Theory Seminar (5 lectures), University of Georgia, January-February, October

Group Cohomology and Representation Theory Seminar, University of Georgia, March

Algebra Seminar, University of Virginia, March

Conference on Lie and Jordan Algebras: their Representations and Applications, Plenary Talk, Guaruja, Brazil, May

AMS Summer Research Conference: Groups, Representations and Cohomology, Plenary Talk, South Hadley, MA, June

Symposium on Algebraic Groups, Invited Lectures (3), Osaka City University, Osaka, Japan, June

980th AMS Meeting in Madison, WI, Special Session on Lie Theory, October

Workshop on Modular Representation Theory, Korea Institute for Advanced Study, Seoul, Korea, October

VIGRE Seminar, University of Georgia, November

2003    Algebra Seminar, Oxford University, January

Algebra Seminar, University of Warwick, February

Lie Theory Seminar, University of Warwick, February

Representation Theory Seminar, Oxford University, February

Pure Maths Seminar, University of Bristol, February

Pure Maths Seminar, University of Leicester, March

Workshop of Geometric Representation and Invariant Theory, Plenary Talk, University of Manchester, March

Conference on the Representation Theory of Finite Groups, Oberwolfach Germany, March

Algebra Seminar, University of Leeds, April

Bristol-Leicester-Oxford Colloquium, University of Leicester, April

Mini-Workshop on Representations of Algebraic Groups and Lie Algebras, University of Birmingham, May

Infinite Dimensional Lie Theory Workshop, Invited Talk, Fields Institute, Toronto, Canada, July

VIGRE Algebra Seminar, University of Georgia, September, October, November

Lie Theory Seminar, University of Georgia, September

VIGRE Seminar, University of Georgia, October

991th AMS Meeting in Chapel Hill, NC, Special Session on Group Cohomology in Algebra and Geometry, October

Conference on Groups, Representations and Galois Theory, in honor of Walter Feit, Invited Talk, Yale University, October

Group Cohomology and Representation Theory Seminar (3), University of Georgia, November

2004   VIGRE Algebra Seminar, University of Georgia, January, February, March
       Algebra Seminar, University of Georgia, February, April
       Conference on Geometric Representation Theory, Invited Talk, University of Warwick, England, March
       Conference on Lie and Jordan Algebras: their Representations and Applications II, Plenary Talk, Guaruja, Brazil, May
       Algebra Seminar, University of Virginia, May
       Algebra Seminar, University of Washington, July
       Conference on Algebraic Cycles, K-theory, and Modular Representation Theory, Plenary Talk, Northwestern University, September
       Conference on Interaction of Finite Dimensional Algebras with Other Areas of Mathematics, Banff International Research Station, Banff, Canada, September
       Groups-Representations-Cohomology Seminar, Ohio State University, October

2005   1003$^{\text{rd}}$ AMS Meeting in Atlanta, GA, Special Session on Modular Representation Theory of Finite and Algebraic Groups, January
       VIGRE Algebra Seminar, University of Georgia, January, February, September, October
       Algebra Seminar (4 lectures), University of Georgia, February, October
       International AsiaLink Conference on Algebras and Representations, Plenary Talk, Beijing Normal University, P.R. China, May
       Series of Invited Lectures (2), Programme on Group Representation Theory, Bernoulli Centre, Ecole Polytechnique Federale de Lausanne, Switzerland, June
       VIGRE Seminar, University of Georgia, August
       Conference on Cohomology of Finite Groups: Interactions and Applications, Oberwolfach, Germany, September
       1012$^{\text{th}}$ AMS Meeting in Eugene, OR, Special Session on Representations of Groups and Algebras, November
       Algebra Seminar, University of Washington, November
       1013$^{\text{th}}$ AMS Meeting in Taichung, Taiwan, Special Session on Lie Algebra and Representation Theory, December

2006   Conference on Representation Theory of Finite Groups, Oberwolfach, Germany, March
       Algebra Seminar, University of Virginia, April
       Geometric Methods in Representation Theory Seminar, University of North Carolina, April
       Colloquium, Virginia Tech, April
       1018$^{\text{th}}$ AMS Meeting in San Francisco, CA, Special Session on Lie Algebras and Applications, April
       VIGRE Algebra Seminar, University of Georgia, August, September, November
       Algebra Seminar, University of Georgia, November
       Algebra Seminar, University of Rochester, November
       Topology Seminar, University of Rochester, November

2007    1024th AMS Meeting in Davidson, NC, Special Session on Geometric and Combinatorial Methods in Representation Theory, March
Algebra Seminar, University of Virginia, March
Shoemaker Distinguished Lecture Series (3 lectures), University of Toledo, April
Conference on Lie Theory, Banff International Research Station, Banff, Canada, May
Algebra and Algebraic Geometry Seminar, University of Washington, June
Algebraic and Geometric Representation Theory Conference, Plenary Talk, Aarhus University, Denmark, June
Conference on Algebras, Representations and Applications Lie and Jordan Algebras, their Representations and Applications - III, Plenary Talk, Brazil, August
Conference on Group Embeddings, Banff International Research Station, Banff, Canada, September
Invited One-Hour Address, American Mathematical Society Fall Sectional Meeting, Murfreesboro, TN, November

2008    Algebra Seminar, University of Georgia, January
Conference on Representation Theory of Finite Dimensional Algebras, Oberwolfach, Germany, February
Homological Methods in Representation Theory Seminar, MSRI, Berkeley, CA, March
Colloquium, University of British Columbia, April
Algebra/Topology Seminar, University of British Columbia, April
Algebra Seminar, Emory University, April
1040th AMS-SBM Meeting in Rio de Janeiro, Brazil, Special Session on Lie Algebras and their Applications, June
1043rd AMS Meeting in Kalamazoo, MI, Special Session on Computation in Modular Representation Theory and Cohomology, October
1045th AMS-SMS Meeting in Shanghai, China, Special Session on Representations of Groups and Algebras, December

2009    Mini-Workshop on Support Varieties, (3 invited lectures), Oberwolfach, Germany, February
1048th AMS Meeting in Raleigh, NC, Special Session on Kac-Moody Algebras, Vertex Algebras, Quantum Groups, and Applications, April
Algebra Seminar, University of Virginia, May
Conference on Representation Theory and Lie Theory, Plenary Talk, Isaac Newton Institute for Mathematical Sciences, Cambridge, England, June
Second Summer School on Lie Theory and Representation Theory, Invited Lecture Series (6 lectures), East China Normal University, Shanghai, China, July
Workshop on Lie Theory and Representation Theory, Plenary Talk, East China Normal University, Shanghai, China, July
International Workshop on Algebraic Groups, Quantum Groups and Related Topics, Plenary Talk, Peking University, Beijing, China, July
International Workshop on Quantized Algebras and Physics, Invited Talk, Chern Institute of Mathematics, Nankai University, Tianjin, China, July

National Mathematics Summer School, Peking University, Beijing, China, July

International Workshop on Lie Algebras and Related Topics, Plenary Talk, National Institute for Mathematical Sciences, Daejon, Korea, October

Algebra Seminar, University of Georgia, October

Algebra and Algebraic Geometry Seminar, University of Washington, December

2010    Algebra Seminar (2), University of Sydney, March

Algebra Seminar, University of Melbourne, April

Colloquium, University of New South Wales, June

Fifth International Conference on Representation Theory, Plenary Talk, Xian, China, August

VIGRE Algebra Seminar (2), University of Georgia, August-September

1062nd AMS Meeting in Syracuse, NY, Special Session on Lie Algebras and Representation Theory, October

Algebra Seminar, University of Georgia, November

Taipei Conference on Representation Theory, Plenary Talk, Academia Sinica, Taipei, Taiwan December

2011    U.C. Lie Theory Workshop, Louisiana State University, February

Colloquium, University of Virginia, March

Mini-workshop on Modular Representations of Symmetric Groups and Related Objects, Oberwolfach, Germany, April

1074th AMS Meeting in Lincoln, NE, Special Session on Quantum Groups and Representation Theory, October

Colloquium, Baylor University, October

Colloquium, University of Texas, Arlington, October

1075th AMS Meeting in Salt Lake City, UT, Special Session on Noncommutative Geometry and Algebra, October

Southwest Group Theory Day 2011, University of Arizona, November

2012    1077th AMS Meeting in Boston, MA, Special Session on Linear Algebraic Groups: their Arithmetic, Geometry and Representations, January

Colloquium, University of Southern California, February

1079th AMS Meeting in Tampa, FL, Special Session on Representations of Algebraic Groups and Related Structures, March

Conference on the Representation Theory of Finite Groups, Oberwolfach Germany, March

Workshop on Cohomology Bounds and Growth Rates, American Institute for Mathematics, Palo Alto, CA, Extemporary Talks, June

Conference on Cohomology and Supports in Representation Theory, University of Washington, Plenary Talk, July

Conference on Lie Algebras and Applications, Plenary Talk, Uppsala University, Sweden, September

1085th AMS Meeting in Tucson, AZ, Special Session on Representations of Groups and Algebras, October

Algebra Seminar, University of Georgia, November

2013    Algebra Seminar, University of Texas at Arlington, February
        Colloquium, College of Charleston, March
        Colloquium, University of Oregon, April
        III International Symposium on Groups, Algebras and Related Topics, Peking University, Invited Talk, June
        International Conference on Representation Theory VI, Zhangjiajie, China, Plenary Talk, June
        Algebra Seminar (2), Morningside Institute, Beijing, China, July
        Colloquium, Chinese Academy of Sciences, Beijing, China, July
        Congress of the Americas, Special Session on Lie Representation Theory, Guanajuato, Mexico, August
        Algebra Seminar, University of Georgia, August

2014    Algebra Seminar (2), University of Georgia, January, February
        Joint Mathematics Meetings for the AMS and MAA, MAA Invited Paper Session, The Unreasonable Effectiveness of Modern Mathematics, Baltimore, MD, January
        Algebra and Algebraic Geometry Pre-Seminar, University of Washington, February
        Algebra and Algebraic Geometry Seminar, University of Washington, February
        1097th AMS Meeting in Knoxville, TN, Special Session on Geometric and Combinatorial Methods in Lie Theory, March
        Geometric Methods in Representation Theory Seminar, University of North Carolina, March
        Conference on Representations of Algebraic Groups, Invited Talk, University of Lyon, France, July
        ICM 2014 Satellite Conference on Representation Theory and Related Topics, Invited Talk, Daegu, South Korea, August
        Conference on Representations of Algebraic Groups and Related Objects, Plenary Talk, Friedrich-Schiller Universitat, Jena, Germany, September
        Algebra Seminar, University of Georgia, September
        Algebra, Geometry, Combinatorics Day (ALGECOM11), Plenary Talk, DePaul University, Chicago, IL, October
        1105th AMS Meeting in Greensboro, NC, Special Session on Exceptional Groups in Physics, Algebra and Geometry, November

2015    USA-Mexico Conference in Representation Theory and Non-Commutative Algebra, Plenary Talk, Instituto de Matmaticas, UNAM, Mexico, January
        Invited Seminar Speaker, Mittag-Leffler Institute, Stockholm, Sweden, February
        Southwestern Group Theory Day, Invited Talk, University of Arizona, March
        Conference on Cohomology of Finite Groups: Interactions and Applications, Oberwolfach, Germany, May

2016    Joint Mathematics Meetings, AMS Special Session on Geometric and Categorical Methods in Representation Theory, Seattle, WA, January

Conference on Vertex Algebras and Quantum Groups, Banff International Research Station, Banff, Canada, Invited Talk, February

Algebra Seminar, DePaul University, Chicago, IL, March

Workshop on Sheaves and Modular Representations of Reductive Groups, American Institute for Mathematics, San Jose, CA, Invited Talk, March

Oberseminar, University of Georgia, May

Southeastern Lie Theory Workshop IX, University of Virginia, Plenary Talk, May

Conference on Triangulated Categories and Applications, Banff International Research Station, Banff, Canada, Invited Talk, June

PIMS Workshop on Geometric and Topological Aspects of the Representation Theory of Finite Groups, Vancouver, Canada, Plenary Talk, August

Workshop on Endo-p-Permutation Modules in the Representation Theory of Finite Groups, Bernoulli Centre, EPFL, Lausanne, Switzerland, Plenary Talk, September

Algebra Seminar, University of Georgia, September

1124$^{\text{th}}$ AMS Meeting in Raleigh, NC, Special Session on Representation Theory of Lie Algebras, Quantum Groups and Related Stuctures, November

2017    Joint Mathematics Meetings, AMS Special Session on Group Representations and Cohomology, Atlanta, GA, January

Colloquium, Auburn University, February

Algebra Seminar, University of Georgia, February

Algebra and Algebraic Geometry Seminar, University of Washington, May

Congress of the Americas, Special Session on Cohomology of Groups, Montreal, Canada, July

Satellite Workshop on Representation Theory, Plenary Talk, University of Laval, Quebec City, Canada, July

1132$^{\text{nd}}$ AMS Meeting in Buffalo, NY, Special Session on Recent Advancements in Representation Theory, September

Colloquium, Georgia Southern University, October

2018    Group Representation Theory and Applications Seminar, MSRI, Berkeley, CA, February

Algebra Seminar, University of Georgia, April

1139$^{\text{th}}$ AMS Meeting in Boston, MA, Special Session on Hopf Algebras, Tensor Categories, and Homological Algebra, April

Algebra and Representation Theory Seminar, University of Stuttgart, Germany, July

Conference on Algebraic Representation Theory, Plenary Talk, University of Stuttgart, Germany, July

ICM 2018 Satellite Conference on Algebras, Representations and Applications, Plenary Talk Cusco, Peru, August

Pure Math Seminar, University of South Alabama, October

Algebra Seminar, University of Georgia, November

Colloquium, University of Reno, Nevada, November

Algebra and Algebraic Geometry Seminar, University of Washington, December

2019    Taipei Conference on Representation Theory, Plenary Talk, Academia Sinica, Taipei, Taiwan January

Colloquium, College of Charleston, January

Colloquium, Louisiana St. University, February

1146th AMS Meeting in Auburn, AL, Special Session on Geometric Methods in Representation Theory, March

Lie Theory Seminar, Rutgers University, March

Topology Seminar, University of Rochester, April

1148th AMS Meeting in Hartford, CT, Special Session on Quantum Algebras and Related Topics, April

Vietnam-USA Joint Mathematical Meeting, Special Session on Groups, Representations and Applications, Quy Nhon, Vietnam, June

International Conference on Representation Theory VIII, Plenary Talk, Harbin, China, July

Algebra Seminar, University of Georgia, November

Algebra and Discrete Mathematics Seminar, University of California, Davis, December

2020    Conference Lie and Jordan Algebras, their Representations and Applications, Plenary Talk, Chengdu, China, January

Mathematics Seminar, SUSTech Mathematical Institute, January

Conference on Cohomology of Finite Groups: Interactions and Applications, Oberwolfach, Germany, August

1162nd AMS Meeting in Salt Lake City, UT (virtual), Special Session on Geometry and Representation Theory of Quantum Algebras and Related Topics, October

Pure Math Day, Plenary Talk, Georgia Southern University, November

LieJor Online Seminar, Algebras, Representations and Applications, University of Sao Paulo, Brazil, December

2021    The RepNet Virtual Seminar, The International Centre for Mathematical Sciences, Edinburgh, Scotland, February

Quantum Groups Seminar, University of Copenhagen, Copenhagen, Denmark, February

Algebra Seminar, University of Georgia, March

1165th AMS Meeting in Providence, RI (virtual), Special Session on Hopf Algebras, Tensor Categories and Related Homological Methods, March

Groups, Arithmetic, and Algebraic Geometry Seminar, EPFL, Lausanne, Switzerland, May

Algebra Seminar, University of Georgia, September

1173th AMS Meeting in Mobile, AL (virtual), Special Session on Cohomology, Representation Theory, and Lie Theory, November

2022   1176th AMS Meeting in Boston, MA (virtual), Special Session on Linear Algebraic Groups: their Structure, Representations, and Geometry, March

Joint Mathematics Meetings (virtual), AMS Special Session on Hopf Algebras and Tensor Categories, Seattle, WA, April

STARS (Superalgebra Theory And Representations Seminar), Joint BGU-BIU-WIS (virtual) seminar based in Israel, April

Conference on Cohomology and Automorphism Groups, Invited Talk, University of Lyon, France, July

AMS-SMF-EMS Joint Mathematical Meeting, Special Session on Modular Representation Theory, Grenoble, France, July

Algebra Seminar, University of Georgia, October

1182nd AMS Meeting in Salt Lake City, UT, Special Session on Geometry and Representation Theory of Quantum Algebras and Related Topics, October

2023   Algebra Seminar, University of Georgia, January, April

1176th AMS Meeting in Atlanta, GA, Special Session on Representation Theory of Algebraic Groups and Quantum Groups: A Tribute to the Work of Cline, Parshall and Scott (CPS), March

Representation Theory and Related Topics Seminar, Northeastern University, April

Maurice Auslander International Conference, Plenary Expository Talk, Woods Hole Oceanographic Institute, MA, April

1184th AMS Meeting in Fresno, CA, Special Session on Methods in Non-Semisimple Representation Categories, May

Geometrie, Algebre, Algebres d'operateurs (GAAO) Seminar, Université Clermont Auvergne, Clermont-Ferrand, France, May

International Algebra Conference in the Philippines (IACP), Plenary Talk, Lapu-Lapu City, Cebu, Philippines, August

Canada-Mexico-US Conference in Representation Theory, Noncommutative Algebra and Categorification, Invited Talk, Centre de Recherches Mathematiques (CRM), Montreal, Canada, August

Conference on Tensor Triangular Geometry and Interactions, Oberwolfach, Germany September

New Directions in Group Theory and Triangulated Categories Seminar (online), based at the University of Warwick, England, November

2024    Colloquium, SUSTech International Center for Mathematics, Shenzhen, China, March

Workshop on Representation Theory, Invited Talk, Beijing Institute of Technology, March

Colloquium, Peking University, Beijing, China, March

Colloquium, Academia Sinica, Taipei, Taiwan, March

1194th AMS Meeting in Washington DC, Special Session on Recent Developments in Noncommutative Algebra and Tensor Categories, April

Joint International Meeting for the AMS-UMI, Special Session on Representation Theory: Lie Theory and Geometry, Palermo, Italy, July

Conference on Representation Theory and K-theory, Plenary Talk, University of Southern California, August

Conference on Group Theory and Neighboring Disciplines, Plenary Talk, University of Denver, August

**Teaching Experience, Courses Taught**

Berkeley:    1984–86    Calculus of One Variable (tutor/reader)

Yale:    1986–87    115a    Calculus of One Variable (problem session)
         1987–88    222b    Linear Algebra (discussion section)
         1988–89    115b    Calculus of One Variable
         1989–90    115a    Calculus of One Variable
                    115b    Calculus of One Variable

Auburn:    1990-91    161        Analytic Geometry and Calculus
                      266 (2)    Introduction to Linear Algebra
                      264        Analytic Geometry and Calculus
                      265        Linear Differential Equations
                      331        Introduction to Abstract Algebra

Northwestern:    1991–92    B14–2    Calculus
                            C37      Introduction to Modern Algebra
                            B15      Multiple Integration and Vector Calculus
                            B17      Sequences and Series, Linear Algebra
                            C34      Linear Algebra and its Applications
                 1992–93    D84      Lie Algebras
                            E11–2    Seminar: Representation Theory of Algebraic Groups
                                     and Lie Algebras
                 1993–94:   C37      Introduction to Modern Algebra
                 1994–95:   B14–2    Calculus
                            B14–1    Calculus

Utah State:    1995–96    531    Introduction to Group Theory
                          532    Introduction to Ring Theory
                          533    Galois Theory
                          731    Lie Algebras
                          732    Representations of Finite Groups
               1996–97    220    Calculus
                          221    Calculus
                          631    Graduate Algebra
                          632    Graduate Algebra
                          633    Graduate Algebra

|          | 1997–98 | 531       | Introduction to Group Theory                  |
|----------|---------|-----------|-----------------------------------------------|
|          |         | 532       | Introduction to Ring Theory                   |
|          |         | 731       | Representation Theory of Groups               |
|          |         | 732       | Representation Theory of Lie Algebras         |
|          | 1998–99 | 6310      | Graduate Algebra                              |
|          |         | 6320      | Graduate Algebra                              |
|          |         | 1220H     | Honors Calculus                               |
|          | 1999–00 | 1100      | Calculus                                      |
|          |         | 4310      | Modern Algebra                                |
|          |         | 5320      | Modern Algebra                                |
|          |         | 7320      | Representation Theory                         |
|          | 2000–01 | 6310      | Graduate Algebra                              |
|          |         | 2270      | Linear Algebra                                |
|          |         | 6320      | Graduate Algebra                              |
|          |         | 1100      | Calculus                                      |
| Georgia: | 2001–02 | 2200 (2)  | Calculus                                      |
|          |         | 2210      | Calculus                                      |
|          |         | 2700      | Differential Equations                        |
|          | 2002–03 | 2200      | Calculus                                      |
|          |         | 8000      | Graduate Algebra                              |
|          | 2003–04 | 2200      | Calculus                                      |
|          |         | 4000/6000 | Modern Algebra and Geometry I                 |
|          |         | 4010/6010 | Modern Algebra and Geometry II                |
|          |         | 8010      | Graduate Algebra                              |
|          |         | 8850      | Algebra VIGRE Research Group                  |
|          | 2004–05 | 3200      | Introduction to Higher Mathematics            |
|          |         | 8190      | Representation Theory of Algebraic Groups     |
|          |         | 8850      | Algebra VIGRE Research Group                  |
|          | 2005–06 | 2210      | Calculus                                      |
|          |         | 2310H     | Honors Calculus                               |
|          |         | 8850      | Algebra VIGRE Research Group                  |
|          | 2006–07 | 2200 (2)  | Calculus                                      |
|          |         | 2210      | Calculus                                      |
|          |         | 8030      | Representation Theory                         |
|          |         | 8850      | Algebra VIGRE Research Group                  |
|          | 2007–08 | 2200      | Calculus                                      |
|          |         | 2700      | Differential Equations                        |
|          |         | 8030      | Homological Algebra/Commutative Rings         |
|          |         | 8850      | Algebra VIGRE Research Group                  |
|          | 2008–09 | 2250 (2)  | Calculus (for Scientists and Engineers)       |
|          | 2009–10 | 2200      | Calculus                                      |
|          |         | 8190      | Representation Theory of Algebraic Groups     |
|          |         | 8850      | Algebra VIGRE Research Group                  |

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|---|---|---|
| 2010-11 | 4000/6000 | Modern Algebra and Geometry I |
| | 4010/6010 | Modern Algebra and Geometry II |
| | 8850 | Algebra VIGRE Research Group |
| 2011-12 | 8000/8005 | Graduate Algebra |
| 2012-13 | 2200 | Calculus |
| | 8190 | Representation Theory of Algebraic Groups |
| 2013-14 | 2250 | Calculus (for Scientists and Engineers) |
| | 3000 | Linear Algebra |
| 2014-15 | 3000 | Linear Algebra |
| | 8190 | Representation Theory of Algebraic Groups |
| 2015-16 | 3000 | Linear Algebra |
| | 8000/8005 | Graduate Algebra |
| 2016-17 | 2260 | Calculus (for Scientists and Engineers) |
| | 3300 | Applied Linear Algebra |
| | 8850 | Algebra Vertical Research Group |
| 2017-18 | 3300 | Applied Linear Algebra |
| | 8080 | Lie Algebras |
| 2018-19 | 3300 (2) | Applied Linear Algebra |
| 2019-20 | 2260 | Calculus (for Scientists and Engineers) |
| | 8000/8005 | Graduate Algebra |
| 2020-21 | 3300 | Applied Linear Algebra |
| | 8190 | Representation Theory of Algebraic Groups |
| 2021-22 | 2260 | Calculus (for Scientists and Engineers) |
| | 3300 | Applied Linear Algebra |
| | 8030 | Cohomology and Representation Theory |
| 2022-23 | 2260 | Calculus (for Scientists and Engineers) |
| | 3300 | Applied Linear Algebra |
| 2023-24 | 3300 | Applied Linear Algebra |
| | 8190 | Algebraic Groups |
| 2024-25 | 8000/8005 | Graduate Algebra |
| | 8080 | Lie Algebras |
| . | 3300 | Applied Linear Algebra |

1. Brauer-type reciprocity over a class of graded associative algebras (with R. Holmes), *J. Algebra* **144** (1991), 117–126.

2. Projective modules over Lie algebras of Cartan type, *Memoirs Amer. Math. Soc.* **98** no. 470 (1992).

3. Filtrations for periodic modules over restricted Lie algebras, *Indag. Math.* **3** no. 1 (1992), 59–68.

4. Block degeneracy and Cartan invariants for Lie algebras of Cartan type (with R. Holmes), *J. Algebra* **161** (1993), 155–170.

5. Homomorphisms inducing isomorphisms in Lie algebra cohomology, *J. Pure Appl. Algebra* **90** (1993), 49–54.

6. On the cohomology of the Witt algebra: W(1,1), Proc. III International Conference on Non-associative algebra and its applications (ed. S. Gonzales), Kluwer (1994).

7. A bound for the complexity of $G_r T$-modules, *Proc. Amer. Math. Soc.* **123** (2) (1995), 335–341.

8. On the vanishing of extensions of modules over reduced enveloping algebras (with J. Carlson and K. Peters), *Math. Annalen* **302** (1995), 541–560.

9. Algebraic group techniques in the representation and cohomology theory of Lie algebras of Cartan type (with Z. Lin), *J. Algebra* **179** (1996), 852–888.

10. Infinitesimal Schur algebras (with S. Doty and K. Peters), *Proc. London Math. Soc.* **72** (3) (1996), 588–612.

11. On the construction of indecomposable modules over restricted enveloping algebras (with R. D. Pollack), *J. Pure Appl. Algebra* **90** (1996), 61–73.

12. Complexity and support varieties for finite-dimensional algebras, *Cont. Math.* **194** (1996), 201–218.

13. Polynomial representations of Frobenius kernels of $GL_2$, (with S. Doty and K. Peters), *Cont. Math.* **194** (1996), 57–67.

14. Representations of Hopf algebras arising from Lie algebras of Cartan type (with Z. Lin), *J. Algebra* **189** (1997), 529–567.

15. Infinitesimal Schur algebras of finite representation type (with S. Doty and K. Peters), *Quart. J. Math. Oxford* (2) **48** (1997), 323–345.

16. Varieties for $G_r T$-modules, *Proc. of Symposia in Pure Mathematics* **63** (1998), 441–451.

17. Representation theory of the Witt algebra (with J. Feldvoss), *J. Algebra* **203** (1998), 447–469.

18. Good filtrations for Hopf algebras arising from Lie algebras of Cartan type (with Z. Lin), *J. Pure and Appl. Algebra* **127** (1998), 231–256.

19. Semisimplicity of Schur algebras, (with S. Doty), *Math. Proc. Cambridge Phil. Soc.* **124** no. 1 (1998), 15–20.

20. Support varieties for the Steenrod algebra (with J. Palmieri), *Math. Zeit.* **227** no. 4 (1998), 663–684.

21. Representation theory of Lie algebras of Cartan type, The Monster and Lie Algebras: Proceedings of a Special Research Quarter at The Ohio St. University, (ed. J. Ferrar, K. Harada), de Gruyter (1998), 235–252.

22. Complexes and vanishing of cohomology for group schemes (with C. Bendel), *J. Algebra* **214** (1999), 668–713.

23. Complexity for modules over finite Chevalley groups and classical Lie algebras (with Z. Lin), *Inventiones Math.* **138** (1999), 85–101.

24. Representation type for Schur algebras (with S. Doty, K. Erdmann, and S. Martin), *Math. Zeit.* **232** (1999), 137–182.

25. Extensions of modules over Hopf algebras arising from Lie algebras of Cartan type (with Z. Lin), *Algebras and Representation Theory* **3** (2000), 43–80.

26. Blocks of finite representation type in reduced enveloping algebras of classical Lie algebras (with R. D. Pollack), *J. London Math. Soc.* **61** (2000), 374–394.

27. Some recent developments in the representation theory of general linear and symmetric groups, *Representations and Quantizations*, Proceedings of the International Conference on Representation Theory (Shanghai, China), Springer-Verlag, 2000, 357–374.

28. Relating the cohomology of the general linear group and the symmetric group (with S. Doty), *Modular Representation Theory of Finite Groups*, Proceedings of a Symposium at the University of Virginia, Walter de Gruyter, 2001, 175–187.

29. On comparing the cohomology of algebraic groups, finite Chevalley groups and Frobenius kernels (with C. Bendel and C. Pillen), *J. Pure and Appl. Algebra* **163** (2001), 119–146.

30. Representation type for the blocks of Category $\mathcal{O}$ (with V. Futorny and R. D. Pollack), *Quart. J. Math. Oxford* **52** (2001), 285–305.

31. On comparing the cohomology of general linear groups and symmetric groups (with A. S. Kleshchev), *Pacific J. Math.* **201** (2001), 339–355.

32. Representation type of quantum Schur algebras (with K. Erdmann), *Transactions of AMS* **353** (2001), 4729–4756.

33. Representation type of Hecke algebras (with K. Erdmann), *Transactions of AMS* **354** (2002), 275–285.

34. Support varieties for algebraic groups (with B. Parshall and D. Vella), *J. Reine Angew. Math.* **547** (2002), 15–49.

35. Extensions for finite Chevalley groups II (with C. Bendel and C. Pillen), *Transactions of AMS* **354** (2002), 4421–4454.

36. Support varieties of modules for symmetric groups (with D. Hemmer), *J. Algebra* **254** (2002), 422–440.

37. The restricted nullcone (with J. Carlson, Z. Lin and B. Parshall), *Cont. Math.* **325** (2003), 51–75.

38. The nucleus for restricted Lie algebras (with D. Benson), *Proc. Amer. Math. Soc.* **131** (2003), 3395–3405.

39. Extensions for Frobenius kernels (with C. Bendel and C. Pillen), *J. Algebra* **272** (2004), 476–511.

40. Extensions of modules over Schur algebras, symmetric groups, and Hecke algebras (with S. Doty and K. Erdmann), *Algebras and Representation Theory* **7** (2004), 67–100.

41. Extensions for finite Chevalley groups I (with C. Bendel and C. Pillen), *Advances in Math.* **183** (2004), 380–408.

42. Specht filtrations for Hecke algebras of type A (with D. Hemmer), *J. London Math. Soc.* **69** (2004), 623–638.

43. Varieties of nilpotent elements for simple Lie algebras I: Good Primes, (with the UGA VIGRE Algebra Group), *J. Algebra* **280** (2004), 719–737.

44. Nilpotent elements and support varieties for simple Lie algebras, *Resenhas* **6** no. 2/3 (2004), 281–290.

45. Extensions for finite groups of Lie type: Twisted Groups (with C. Bendel and C. Pillen), *Finite Groups 2003* (held at the University of Florida), de Gruyter, New York, 2004, 29–46.

46. Representation type of the blocks of Category $\mathcal{O}_S$ (with B. Boe), *Advances in Math.* **196** (2005), 193–256.

47. Varieties of nilpotent elements for simple Lie algebras II: Bad Primes, (with the UGA VIGRE Algebra Group), *J. Algebra* **292** (2005), 65–99.

48. On the realization of orbit closures as support varieties (with T. Tanisaki), *J. Pure and Applied Algebra* **206** (2006), 66–82.

49. Representation type for Schur superalgebras (with D. Hemmer and J. Kujawa), *J. of Group Theory* **9** (2006), 283–306.

50. Endotrivial groups for finite Chevalley groups (with J. Carlson and N. Mazza), *J. Reine Angew. Math.* **595** (2006), 93–120.

51. Extensions for finite groups of Lie type II: Filtering the truncated induction functor (with C. Bendel and C. Pillen), *Cont. Math.* **413** (2006), 1–23.

52. On the cohomology of Specht modules (with D. Hemmer), *J. Algebra* **306** (2006), 191–200.

53. Second cohomology for Frobenius kernels and related structures (with C. Bendel and C. Pillen), *Advances in Math.* **209** (2007), 162–197.

54. Support varieties for Weyl modules over bad primes (with the UGA VIGRE Algebra Group), *J. Algebra* **312** (2007), 602–633.

55. Projective modules for Chevalley groups and Frobenius kernels (with Z. Lin), *Bulletin of the London Math. Soc.* **39** (2007), 1019-1028.

56. Category $\mathcal{O}$ for the Virasoro algebra: Cohomology and Koszulity (with B. Boe and E. Wiesner), *Pacific J. Math.* **234** (2008), 1-21.

57. Support varieties for modules over Chevalley groups and classical Lie algebras (with J. Carlson and Z. Lin), *Transactions of AMS* **360** (2008), 1879-1906.

58. Endotrivial modules for the symmetric group (with J. Carlson and N. Mazza), *Proceedings of the Edinburgh Math. Soc.* **51** (2008), 1-22.

59. Cohomology and support varieties for the Lie superalgebra $W(n)$ (with I. Bagci and J. Kujawa), *International Math. Research Notices*, doi:10.1093/imrn/rnn115, (2008).

60. Cohomology and support varieties for Lie superalgebras II (with B. Boe and J. Kujawa), *Proceedings of the London Math. Soc.*, **98** (2009), 19-44.

61. On Kostant's theorem for Lie algebra cohomology (with the UGA VIGRE Algebra Group), *Cont. Math.*, **478** (2009), 39-60.

62. Ext$^1$-quivers for the Witt algebra $W(1,1)$ (with B. Boe and E. Wiesner), *J. Algebra*, **322** (2009), 1548-1564.

63. An analog of Kostant's theorem for the cohomology of quantum groups (with the UGA VIGRE Algebra Group), *Proceedings of the AMS*, **138** (2010), 85-99.

64. On the cohomology of Young modules for the symmetric group (with F. Cohen and D. Hemmer), *Advances in Math.*, **224** (2010), 1419-1461.

65. Cohomology and support varieties for Lie superalgebras (with B. Boe and J. Kujawa), *Transactions of the AMS*, **362** (2010), 6551-6590.

66. Complexity and module varieties for classical Lie superalgebras (with B. Boe and J. Kujawa), *International Math. Research Notices*, (2011), No. 3, 696-724.

67. Endotrivial modules for finite group schemes (with J. Carlson), *J. Reine Angew. Math.*, **653** (2011), 149-178.

68. Detecting cohomology for Lie superalgebras (with G. Lehrer, R. Zhang), *Advances in Math.*, **228** (2011), 2098-2115.

69. On the vanishing ranges for the cohomology of finite groups of Lie type (with C. Bendel and C. Pillen), *International Math. Research Notices*, doi:10.1093/imrn/rnr30, (2011).

70. On the support varieties for Demazure modules (with B. Jones), *J. Australian Math. Soc.*, **91** (2011), 343-363.

71. Endotrivial modules for finite group schemes II (with J. Carlson), *Bulletin of the Institute of Mathematics Academia Sinica*, **7** (2012), 271-289.

72. Differentiating Weyl's generic dimension formula with applications to support varieties, (with C. Drupieski and B. Parshall), *Advances in Math.*, **229** (2012), 2656-2668 .

73. Second cohomology for finite groups of Lie type (with UGA VIGRE Algebra Group), *J. Algebra*, **360** (2012), 21-52.

74. Cohomology for infinitesimal unipotent algebraic and quantum groups (with C. Drupieski and N. Ngo), *Transformation Groups*, **17** (2012), 393-416.

75. Cohomology of algebraic groups, finite groups, and Lie algebras: Interactions and Connections, *Lie Theory and Representation Theory*, Survey of Modern Mathematics Volume II (edited by N. Hu, B. Shu, J.P. Wang), International Press, 2012, pp. 151-176.

76. On the vanishing ranges for the cohomology of finite groups of Lie type II (with C. Bendel and C. Pillen), *Proc. of the Symposia of Pure Mathematics*, **86** (2012), 25-73.

77. Complexity for modules over the classical Lie superalgebra $\mathfrak{gl}(m|n)$ (with B. Boe and J. Kujawa), *Compositio Math.*, **148** (2012), 1561-1592.

78. First cohomology of finite groups of Lie type: simple modules with small dominant weights (with the UGA VIGRE Algebra Group), *Transactions of the AMS*, **365** (2013), 1025-1050.

79. Cohomology for quantum groups via the geometry of the nullcone (with C. Bendel, B. Parshall and C. Pillen), *Memoirs of the AMS*, **229**, no. 1077, (2014).

80. Extensions for finite Chevalley groups III: Rational and Generic Cohomology (with C. Bendel and C. Pillen), *Advances in Math.*, **262** (2014), 484-519.

81. On the structure of cohomology rings of $p$-nilpotent Lie algebras (with J. Carlson), *Transformation Groups*, **19** (2014), 721-734.

82. Bounding the dimension of rational cohomology groups (with C. Bendel, B. Boe, C. Drupieski, B. Parshall, C. Pillen, and C. Wright), *Current Developments and Retrospectives in Lie Theory: Algebraic Methods*, Developments in Mathematics (edited by G. Mason, I. Penkov, J.A. Wolf), Springer-Verlag, 2014, 51-69.

83. Endotrivial modules for the general linear group in a non-defining characteristic (with J. Carlson and N. Mazza), *Math. Zeitschrift*, **278** (2014), 901-925.

84. On good $(p, r)$ filtrations for rational $G$-modules (with T. Kildetoft), *J. Algebra*, **423** (2015), 702-725.

85. Bounding extensions for finite Chevalley groups and Frobenius kernels (with C. Bendel, B. Parshall, C. Pillen, L. Scott, and D. Stewart), *Algebras and Representation Theory*, **18**, (2015), 739-760.

86. Endotrivial modules for finite groups of Lie type $A$ in the non-defining characteristic (with J. Carlson and N. Mazza), *Math. Zeitschrift*, **282** (2016), 1-24.

87. Bilinear and quadratic forms for rational modules of split reductive groups (with S. Garibaldi), *Canadian J. Math.*, **68** (2016), 395-421.

88. The Lie module and its complexity (with F. Cohen and D. Hemmer), *Bulletin of the London Math. Soc.*, **48** (2016), 109-114.

89. Third cohomology for Frobenius kernels and related structures (with C. Bendel, C. Pillen), *Proc. of the Symposia of Pure Mathematics*, **92** (2016), 81-118.

90. Globally irreducible Weyl modules (with S. Garibaldi and R. Guralnick), *J. Algebra*, **477** (2017), 69-87.

91. Tensor triangular geometry for Lie superalgebras (with B. Boe and J. Kujawa), *Advances in Math.*, **314** (2017), 228-277.

92. On the existence of mock injectives for algebraic groups (with W. Hardesty and P. Sobaje), *Bulletin of the London Math. Soc.*, **49** (2017), 806-817.

93. Globally irreducible Weyl modules for quantum groups (with S. Garibaldi and R. Guralnick), *Springer Proceedings in Mathematics and Statistics (Geometric and Topological Aspects of the Representation Theory of Finite Groups)*, Springer-Verlag International Publishing, **242** (2018), 313-336.

94. Support varieties for Hecke algebras (with Z. Xiang), *Homology, Homotopy and Applications*, **21(2)** (2019), 1–24.

95. On tensoring with the Steinberg module (with C. Bendel, C. Pillen and P. Sobaje), *Transformation Groups*, **25(4)** (2020), 981-1008.

96. Counterexamples to the Tilting and $(p, r)$-Filtration Conjectures (with C. Bendel, C. Pillen and P. Sobaje), *J. Reine Angew. Math.*, **767** (2020), 193-202.

97. On BBW parabolics for simple classical Lie superalgebras (with D. Grantcharov, N. Grantcharov, and J. Wu), *Advances in Math.*, **381** (2021), 107647.

98. The nilpotent cone for classical Lie superalgebras (with L.A. Jenkins), *Proceedings of the AMS*, **149** (2021), 5065-5080.

99. On Donkin's Tilting Module Conjecture I: Lowering the Prime (with C. Bendel, C. Pillen and P. Sobaje), *Representation Theory*, **26** (2022), 455-497.

100. On torsion-free endotrivial modules for finite groups of Lie type (with J. Carlson, J. Grodal, and N. Mazza), *Pacific J. Math.* **317** (2022), 239–274.

101. On $q$-Schur algebras corresponding to Hecke algebras of type B (with C.J. Lai and Z. Xiang), *Transformation Groups*, **27** (2022), 983-1024.

102. On non-commutative tensor triangular geometry (with K. Vashaw and M. Yakimov), *American J. Math.* **144** (2022), 1681-1724.

103. Noncommutative tensor triangular geometry and the tensor product property for support maps (with K. Vashaw and M. Yakimov), *International Math. Research Notices*, **22**, (2022), 17766-17796.

104. On sheaf cohomology for supergroups arising from classical simple Lie superalgebras (with D. Galban), *Transformation Groups* **28** (2023), 1101-1120.

105. On Donkin's Tilting Module Conjecture III: New Generic Lower Bounds (with C. Bendel, C. Pillen and P. Sobaje), *J. Algebra*, (2023), j.algebra.07.001.

106. On the spectrum and support theory for finite tensor categories (with K. Vashaw and M. Yakimov), *Math. Annalen*, (2023), https://doi.org/10.1007/s00208-023-02759-8

107. Realizing rings of regular functions through quantum group cohomology (with Z. Lin), to appear in the *Proc. of the Symposia of Pure Mathematics*.

108. On Donkin's Tilting Module Conjecture II: Counterexamples (with C. Bendel, C. Pillen and P. Sobaje), to appear in *Compositio Math.*.

109. Quantum Wreath Products and Schur-Weyl Duality I (with C.J. Lai and Z. Xiang), submitted.

110. A Chinese remainder theorem for monoidal triangulated categories (with K. Vashaw and M.Yakimov), submitted.

111. The homological spectrum and nilpotence theorems for Lie superalgebra representations (with M.Hamil), submitted.

112. Restricting rational $G$-modules in Type $A$ (with C. Bendel, C. Pillen and P. Sobaje), submitted.

113. Tensor triangular geometry for quantum groups (with B. Boe and J. Kujawa), preprint.

114. Extensions for generalized loop algebras (with B. Boe, C. Drupieski, T. Macedo), preprint.