

## Dr. Tin-Yau Tam

Department Chair & Professor  
Seneca C. and Mary B. Weeks Chair in Mathematics

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### **Education:**

- Ph.D., Mathematics, University of Hong Kong, Hong Kong (1986)
- B.Sc., Mathematics, University of Hong Kong, Hong Kong (1982)

### **Current Position:**

Department Chair & Professor, Seneca C. and Mary B. Weeks Chair in Mathematics, Department of Mathematics and Statistics, University of Nevada, Reno (UNR), USA

### **Academic Experience:**

- Chair, Department of Mathematics and Statistics, University of Nevada, Reno, USA (2018-present)
- Chair, Department of Mathematics and Statistics, Auburn University, Alabama, USA (2012-2018)
- Special Assistant to the Provost, Auburn University, Alabama, USA (2008-2009)
- Director of Assessment and Planning, College of Sciences and Mathematics (COSAM), Auburn University, Alabama, USA (2000 - 2012)
- Professor, Department of Mathematics and Statistics, Auburn University, Alabama, USA (1998-2018)
- Academic Visiting Scholar, Department of Mathematics, University of Hong Kong, Hong Kong, (Spring 1994)
- Associate Professor, Department of Mathematics and Statistics, Auburn University, Alabama, USA (1993-1998)
- Assistant Professor, Department of Mathematics and Statistics, Auburn University, Alabama, USA (1988-1993)
- Lecturer (equivalent to Assistant Professor in USA), City University of Hong Kong, Hong Kong (1986-1988)

### **Honors:**

- Seneca C. and Mary B. Weeks Chair in Mathematics, Department of Mathematics and Statistics, University of Nevada, Reno, USA (2018 - present)
- Professor Emeritus in Mathematics, Department of Mathematics and Statistics, Auburn University, USA (2018 - present)
- Chongqing Renowned Overseas Professor, Chongqing University of Science and Technology, Chongqing, China, 2019
- Visiting Professor, Shanghai University, Shanghai, China (January 1, 2018 - December 31, 2020).
- Renowned Overseas Professor, Shanghai University, China, Summer 2018

- Visiting Professor, Huaqiao University, Fujian, China (November 2017 - November 2020)
- Lloyd and Sandra Nix Endowed Professor, Auburn University, Alabama, USA (2012 - 2015)
- SECAC Academic Leadership Development Program Fellow, Auburn University, Alabama, USA (2009 - 2010)
- Keynote/Plenary Speaker
  - Keynote Lecture (60 minutes), the 12th Seminar on Linear Algebra and Its Applications, Shahand University of Technology, Tabriz, Iran, July 18-19, 2023.
  - Keynote Lecture (60 minutes), Matrix Analysis and Its Applications, Quynhon University, Vietnam, July 7-8, 2023.
  - Keynote Lecture (60 minutes), the Second International Workshop on Matrix Theory and Its Applications, hosted by the Department of Mathematics at Sukkur IBA University, Pakistan, the Department of Mathematics at Naresuan University, Thailand, and Bukhara State University, Uzbekistan, November 15-17, 2022 (Virtual).
  - Keynote Lecture (60 minutes), the First NU-SIBAU International Workshop on Matrix Theory and Its Applications, hosted by the Department of Mathematics at Sukkur IBA University, Pakistan and the Department of Mathematics at Naresuan University, Thailand, October 15-17, 2021 (Virtual).
  - Plenary Lecture (45 minutes), International Conference on Mathematics and Its Applications in Science and Engineering (ICMASE 2021), Universidad de Salamanca, Spain, July 1-2, 2021 (Virtual).
  - Plenary Lecture (45 minutes), the 10th Seminar on Linear Algebra and Its Applications, Shahid Bahonar University of Kerman, Kerman, Iran, August 16-19, 2020 (Virtual).
  - Plenary Lecture (40 mins), the 2019 Conference on Higher Math Education, Yangzhou University, Yangzhou, China, July 29-August 1, 2019.
  - Plenary Lecture (60 minutes), the Fourth School on Functional Analysis and Geometry, Argentine Institute of Mathematics “Alberto P. Calderón”, Buenos Aires, Argentina, October 24-26, 2018.
  - Keynote Lecture (40 minutes), the 13th International Conference on Matrix Theory and Applications (MTA 2018), Harbin Engineering University, Harbin, Heilongjiang, China, August 17-22, 2018.
  - Plenary Lecture (50 minutes), Conference on Linear Algebra and Discrete Mathematics, University of Tennessee at Chattanooga (in honor of the retirement of Professor Ron Smith), March 5-6, 2016.
  - Plenary Lecture (50 minutes), ILAS 2014, Sungyunkwan University, Seoul, South Korea, August 6-9, 2014.
  - Plenary Lecture (50 minutes), the 2013 Shanghai International Conference on Matrix Analysis and Applications (SICMAA2013), Shanghai, China, December 27-29, 2013.
  - Plenary Lecture (50 minutes), the 4th International Conference on Matrix Analysis and Applications, Selcuk University, Konya, Turkey, July 2-5, 2013.

**Awards:**

- SEC Visiting Faculty Travel Grant Award (2017).
- Auburn University Outstanding Graduate Mentor Award (2011).
- Auburn University Professional Improvement Leave, University of Hong Kong (1994, 1998).

- Auburn University COSAM Faculty Travel Awards (1992, 1994-95, 1999, 2001-2002, 2004, 2007-2018).

### **Administrative Experience & Service at Auburn University:**

#### **Provost Office:**

- Special Assistant to the Provost, Auburn University (2008-2009). Job duties:
  - Coordinated and administered Academic Program Review for four departments; liaised between the Provost's Office and Deans, the Heads/Chairs, and the Review Team.
  - Coordinated and administered 2008-2009 Post Tenure Review.
  - Audited 2008-2009 Faculty Annual Reviews.
  - Coordinated and organized three training workshops for Chairs/Heads and Assistant and Associate Deans.

#### **University Level:**

- Member, Tim Cook Scholarship Committee, Auburn University (2014-2018).
- Member, Budget Advisory Committee, Auburn University (2012-2014).
- Member, Distinguished Dissertation Award Selection Committee, Auburn University (2012).
- Chair, University Scholarship Committee, Auburn University (2011-2012), Member (2009-2012).
- Chair, Administrator Evaluation Committee, Auburn University (2011-2012).
- Member, Auburn University Assessment Council (2009-2012, 2002-2003).
- Member, COSAM Dean Search Committee, Auburn University (2010-2011).
- Member, Post Tenure Review Committee, Auburn University (2006-2009).
- Member, Institutional Effectiveness Committee, Auburn University (2001-2002).

#### **College Level:**

- Chair, Search for Geosciences Department Chair, Auburn University (Fall 2017).
- Member, Administrative Review Committee for COSAM Dean, Auburn University (Fall 2017-Spring 2018).
- Member, Search Committee for COSAM Associate Dean for Research and Graduate Studies, Auburn University (2017).
- Chair, Geosciences Department Chair reappointment, Auburn University (Spring 2015).
- Member, COSAM P&T Committee, Auburn University (2014-2018).
- Director of Assessment and Planning, COSAM, Auburn University (2000-2012). Job duties include:
  - Coordinated the development of comprehensive short-term and long-term plans for the College.
  - Liaised between COSAM's five academic departments and the Dean's office and between the Dean's office and the University administration.
- Member, Diversity Advisory Council, COSAM, Auburn University (2007-2012).

#### **Departmental Level:**

- Chair, Self-Study Report Committee for Academic Program Review, Auburn University (2013-2014).

- Chair, Lecturer Search Committee, Auburn University (2012-2013).
- Chair, two Tenure-Track Assistant Professor Search Committees, Auburn University (2012-13).
- Chair, Graduate Studies Committee, Auburn University (2010-2012, 2000-2003), Member (1994-1997, 2009-2012).
- Chair, Faculty Awards Committee, Auburn University (2009-2014).
- Member, Success Task Force for Mathematics undergraduate programs, Auburn University (2011).
- Chair, Assessment Committee, Auburn University (2009-2012).
- Member, Research Advisory Council, Auburn University (2007-2012).
- Member, Special Task Force for proposed master's degree in Mathematics for AUM and its co-operation with Auburn University, Auburn University (2008).
- Senator of the Department of Mathematics and Statistics, Auburn University (2010-2013).
- Liaison officer, Mathematical Association of America, Auburn University (2007-2012).
- Member, Tenure-Track Assistant Professor Search Committee, Auburn University (2004).
- Supervisor and ran events in Regional Science Olympiad held at Auburn University, (Metric Mastery, 2000-2004; Egg Drop, 2005; Scrambler, 2006-2009; Junk Yard Challenge, 2010-2011).
- Volunteer to help faculty members and graduate students to install mathematical scientific typesetting software Winedt and Miktex, Auburn University (2002-2014).
- Member, Library Budget Cut Committee, Auburn University (1999).
- Member, Textbook Committee, Auburn University (1997, 2000, 2007).
- Graduate Program Officer, Auburn University (1995-1997).
- Member, COSAM SACS Self-Study Committee, Auburn University (1992).
- Advisor for Undergraduate Math Majors, Auburn University (1990-1994).

**Administrative Experience & Service at UNR:**

- Search Committee for Dean, School of Public Health, Fall 2020 and Spring 2021.
- Search Committee for Fiscal and HR Officer, College of Science, Spring 2020.
- Faculty Academic Leadership Program (FALP), University of Nevada, Reno, USA, weekly meetings, Spring 2019.

**Professional Service on National and International Level:**

- Member, Board of Governors of Pacific Journal of Mathematics, 2021-present.
- Academic Program Reviewer for the Department of Mathematics & Statistics, University of South Alabama, Alabama, USA, 2021 (Virtual visit).
- Advisory Committee Member of the International Linear Algebra Society (ILAS), March 1, 2020-February 28, 2022.
- Advisory Board Member, NSF grant proposal prepared by a research team at the University of South Alabama on using Team-Based Learning (TBL) in linear algebra, 2018.
- Scientific Committee Member of the International Research Center on Tensor and Matrix Theory at Shanghai University, 2016-present.
- Member, Academic Program Review Team for the Department of Mathematics & Computer Science, Auburn University at Montgomery, 2016.
- Chair, Academic Program Review Team for the Department of Mathematics & Statistics, Georgia State University, 2014.

- Member, Board of Directors of the International Linear Algebra Society (ILAS), 2009-2013.
- Academic Program Review Team Member for the Department of Mathematics & Statistics, Georgia State University, 2005. \*Ph.D. program was approved and later implemented after the visit.
- Promotion and Tenure reviewer for United Arab Emirates University, Georgia State University (USA), Southern Illinois University (USA), Iowa State University (USA), National Central University (Taiwan), Auburn University (USA), University of Coimbra (Portugal), National Chiao Tung University (Taiwan), University of Manitoba (Canada), Korean University (Korea), Macau University of Science and Technology (Macau), University of Nebraska at Omaha (USA), Brandon University (Canada).
- Wrote support letters for many distinguished professorships for colleagues.
- Traveled overseas to recruit graduate students. Countries visited include China, Hong Kong, Taiwan, Turkey, Malaysia, South Korea, 1993-2019.

**Teaching Experience:**

**Graduate & Undergraduate Courses Taught at Auburn University:**

- Calculus I, II, III
- Business Calculus I, II
- Algebra I
- Probability and Stochastic Processes
- Topics in Linear Algebra
- Differential Equations
- Numerical Analysis II
- Tensor Analysis
- Matrix Theory and Applications
- Matrices I & II
- Lie Algebra
- Multilinear Algebra

**Graduate Courses Developed at Auburn University:**

- Lie Algebra
- Multilinear Algebra

**Graduate Courses Taught at University of Nevada, Reno**

- Advanced Linear Algebra

**Graduate Courses Developed at University of Nevada, Reno:**

- Advanced Linear Algebra
- Lie Algebra
- Multilinear Algebra
- Numerical Linear Algebra

**Postdoc supervised:** Pan Shun Lau (2019-2021). He is now Teaching Assistant Professor at the University of Nevada, Reno.

**Major Professor of Ph.D. Students:**

1. Xiang Xiang Wang (Ph.D. student, Applied Mathematics, 2021-present)
2. Daryl Granario (Ph.D., Mathematics, 2020), Associate Professor, De La Salle University, Philippines.
3. Luyining (Elaine) Gan (Ph.D., Mathematics, 2020), Postdoc, University of Nevada, Reno, USA.
4. Sima Ahsani (Ph.D., Mathematics 2018), Visiting Assistant Professor, Emory University, Georgia, USA.
5. Jianzhen Liu (Ph.D., Mathematics 2017), Assistant Professor, Medaille College, Buffalo, New York, USA.
6. Zachary Sarver (Ph.D., Mathematics 2016), Software Engineer II, Microsoft, Atlanta, Georgia, USA.
7. Mary Clair Thompson (Ph.D., Mathematics 2013), Academic Data Engineer, Duke University, North Carolina, USA.
8. Xuhua Liu (Ph.D., Mathematics, 2012), Associate Professor, North Greenville University, Greenville, South Carolina, USA.
9. Wen Yan (Ph.D., Mathematics, 2005), Professor, Tuskegee University, Tuskegee, Alabama, USA.
10. Charles Dolberry (Ph.D., Mathematics, 2002), Associate Professor, Math/Science Division, Andrew College, Cuthbert, Georgia, USA.
11. William Chris Hill (Ph.D., Mathematics, 2001), Associate Professor, Department of Mathematics, Macon State College, Georgia, USA.

**Major Professor of M.S. Students:**

1. Dawit Tadesse (M.S., Mathematics, 2010), Biostatistician, Cincinnati Children's Hospital Medical Center, USA.
2. Mary Clair Thompson (M.S., Mathematics, 2010), Academic Data Engineer, Duke University, North Carolina, USA.
3. Melinda Pell (M.S., Mathematics, 2006), Math Tutoring Center Coordinator, Chattahoochee Valley Community College, Alabama, USA.
4. Li Fan (M.S., Mathematics, 2004); received M.S. Statistics in 2005 with Dr. Ash Abebe at Auburn University; received Ph.D. from Florida State University in 2010 and is Principal Scientist at Merck, New York, USA.
5. Massie Feleca McAdoo (M.S., Mathematics, 1993), Ph.D. in Math Education, Auburn University; Regional Vice President of Professional Services, Agile Mind, Texas, USA.

**Reader/Committee Member of Graduate Students:**

1. Bradley McQuaig (Ph.D., Mathematics, 2017)
2. Basil Conway (Ph.D., Math Education, 2015)
3. Xing Wu (Ph.D., Electrical and Computer Engineering, 2014)
4. Daniel Brice (Ph.D., Mathematics, 2014)
5. Wenting Deng (Ph.D., Electrical and Computer Engineering, 2013)
6. Yingsong Huang (Ph.D., Electrical and Computer Engineering, 2013)
7. Hua Mu (M.S., Mathematics, Fall 2012)
8. Tao Ma (Ph.D., Electrical and Computer Engineering, 2012)
9. Donglin Hu (Ph.D., Electrical and Computer Engineering, 2012)

10. Sean McNichols (M.S., Mathematics, 2011)
11. Tyler Killian (Ph.D., Electrical and Computer Engineering, 2009)
12. Heping Liu (Ph.D., Industrial Engineering, 2009)
13. Wei Feng (M.S., Mathematics and Statistics, 2008)
14. Xiaoyun Wei (Ph.D., Electrical and Computer Engineering, 2008)
15. Fangyang Shen (Ph.D., Computer and Software Engineering, 2008)
16. Xiaoli Tang (Ph.D., Physics, 2008)
17. Bing Qi (Ph.D., Computer and Software Engineering, 2008)
18. Chiao Ching Huang (M.S., Computer and Software Engineering, 2008)
19. Haiyu Hou (Ph.D., Computer and Software Engineering, 2007)
20. Dake He (Ph.D., Electrical and Computer Engineering, 2005)
21. Kang Jin (M.S., Applied Mathematics, 2005)
22. Massie McAdoo (Ph.D., Math Education, 2005)
23. Frank Casabianca (Ph.D., Mathematics, 2000)
24. Zhaojin Han (Ph.D., Electrical Engineering, 1999)
25. Juni Qiang Shen (Ph.D., Electrical Engineering, 1999)
26. Fuhu Chen (Ph.D., Material Engineering, 1999)
27. Zhicheng Lin (Ph.D., Material Engineering, 1998)
28. Carol Yin (Ph.D., Discrete Sciences and Statistics, 1996)
29. Chiapu Chang (Ph.D., Material Engineering, 1996)
30. Qiang Zhang (Ph.D., Mechanical Engineering, 1996)
31. Jack Zhengjue Zhang (Ph.D., Material Engineering, 1996)
32. Hungder Tsai (Ph.D., Mechanical Engineering, 1996)
33. Ye Li (Ph.D., Electrical Engineering, 1995)
34. Scott Mitchell (M.S., Mathematics, 1995)
35. Eric Kauffman (Ph.D., Mathematics, 1994)
36. Laura J. Hinck (M.S., Mathematics, 1992)

**External Reviewer of Ph.D. Dissertation**

- Pu Qiao (Ph.D., Mathematics, 2019) East China Normal University
- Wei-Ru Xu (Ph.D., Mathematics, 2019) East China Normal University

**Research Interests & Accomplishments:**

**Research Area:**

- Linear Algebra/Matrix Theory and Applications
- Multilinear Algebra
- Lie group and Lie Algebra
- Numerical Ranges and Radii

**Ph.D. Dissertation:**

A Study of Induced Operators on Symmetry Classes of Tensors, 1986  
 (Advisor: Professor Yik-Hoi Au-Yeung, University of Hong Kong)

**Peer-Reviewed Publications Appeared/To Appear:**

**Highlights:** *I have published one book (a research monograph), one book chapter, and about 114 peer-reviewed papers (35 are single-authored) with more than 50 collaborators in more than 30 different journals since 1984.*

1. Luyining Gan and **Tin-Yau Tam**, Inequalities and limits of weighted spectral geometric mean, accepted and to appear in *Linear and Multilinear Algebra*. DOI: <https://www.tandfonline.com/doi/full/10.1080/03081087.2022.2158294>
2. Luyining Gan, Xuhua Liu, **Tin-Yau Tam**, Inequalities for Matrix Exponentials and Their Extensions to Lie Groups, accepted and to appear as a book chapter in “Matrix and Operator Equations and Applications”, Springer.
3. Xiaohui Fu, Pan-Shun Lau, **Tin-Yau Tam**, Inequalities on 2x2 block positive semidefinite matrices, accepted and to appear in *Linear and Multilinear Algebra*. DOI: <https://doi.org/10.1080/03081087.2021.1969327>
4. Xiaohui Fu, Pan-Shun Lau, **Tin-Yau Tam**, Inequalities on partial traces of positive semidefinite block matrices, *Canadian Mathematical Bulletin*, 64 (2021), 964-949.
5. Luyining Gan, Xuhua Liu, **Tin-Yau Tam**, On two geometric means and sum of adjoint orbits, *Linear Algebra and its Applications*, 631 (2021), 156-173.
6. Daryl Granario and **Tin-Yau Tam**, Products of positive definite symplectic matrices, *Linear Algebra and its Applications*, 626 (2021), 188-203.
7. Xiaohui Fu, Pan-Shun Lau, **Tin-Yau Tam**, Linear maps of positive partial transpose matrices and singular value inequalities, *Mathematical Inequalities and Applications*, 23 (2020), 1459-1468.
8. Xiaohui Fu, Pan-Shun Lau, **Tin-Yau Tam**, Norm inequalities for sector block matrices, *Linear Algebra and its Applications*, 605 (2020), 249-262.
9. Mehmet Gumus, Jianzhen Liu, Samir Raouafi, **Tin-Yau Tam**, On positive partial transpose matrices, *Electronic J. Linear Algebra*, 36 (2020), 256-264.
10. Luyining Gan, Ming Liao, **Tin-Yau Tam**, Curvature of matrix and reductive Lie groups, *Journal of Lie Theory*, 30 (2020), 361-370.
11. Pan Shun Lau and **Tin-Yau Tam**, Weak log-majorization of unital trace-preserving completely positive maps, *Electronic J. Linear Algebra*, 35 (2019), 524-532.
12. Daochang Zhang, Dijana Masic, and **Tin-Yau Tam**, On the existence of group inverses of Peirce corner matrices, *Linear Algebra and its Applications*, 582 (2019), 482-498.
13. **Tin-Yau Tam** and Pingping Zhang, Remarks on two determinantal inequalities, *Mathematical Inequalities & Applications*, 22 (2019), 815-823.
14. **Tin-Yau Tam** and Pingping Zhang, Spectral decomposition of selfadjoint matrices in positive semidefinite inner product spaces and its applications, *Linear and Multilinear Algebra*, 67 (2019) 1829-1838.
15. Charles Dolberry and **Tin-Yau Tam**, Ky Fan’s dominance theorem and Eaton triple, *Journal of Convex Analysis*, 26 (2019), 573-592.
16. Trung Hoa Dinh, Khue TB Vo, and **Tin-Yau Tam**, In-sphere property and reverse inequalities for matrix means, *Electronic J. Linear Algebra*, 35 (2019) 35-41.
17. Daeshik Choi, **Tin-Yau Tam**, Pingping Zhang, Extensions of Fischer’s inequality, *Linear Algebra and its Applications*, 569 (2019) 311-322.



18. Mehmet Gumus, Jianzhen Liu, Samir Raouafi, **Tin-Yau Tam**, Positive semi-definite 2x2 block matrices and norm inequalities, *Linear Algebra and its Applications*, 551 (2018) 83-91.
19. Zhuoheng He, Jianzhen Liu, and **Tin-Yau Tam**, The general  $\phi$ -Hermitian solution to mixed pairs of quaternion matrix Sylvester equations, *Electronic J. Linear Algebras*, 32 (2017), 475-499.
20. Mao-Ting Chien, Jianzhen Liu, Hiroshi Nakazato, **Tin-Yau Tam**, Toeplitz matrices are unitarily similar to symmetric matrices, *Linear and Multilinear Algebra*, 65 (2017), 2131-2144.
21. Ming Liao and **Tin-Yau Tam**, Weight distribution of Iwasawa projection, *Differential Geometry and its Applications*, 53 (2017), 97-102.
22. Deyu Wu, Alatanchang Chen, and **Tin-Yau Tam**, The spectral equality for upper triangular operator matrices with unbounded entries, *Operators and Matrices*, 11 (2017), 505-517.
23. Zhaolin Jiang, **Tin-Yau Tam**, and Yanfeng Wang, Inversion of conjugate-Toeplitz matrices and conjugate-Hankel matrices, *Linear and Multilinear Algebra* 65 (2017), 256-268.
24. **Tin-Yau Tam** and William C. Hill, Derivatives of orbital function and an extension of Berezin-Gel'fand's theorem, *Special Matrices*, 4 (2016), 333-349.
25. Trung Hoa Dinh, Sima Ahsani, **Tin-Yau Tam**, Geometry and inequalities of geometric mean, *Czechoslovak Mathematical Journal*, 66 (2016), 777-792.
26. Sanjeev Baskiyar, Chiao-Ching Huang, and **Tin-Yau Tam**, Minimum energy consumption for rate monotonic scheduled tasks, *Computing*, 98 (2016), 661-684.
27. Zachary Sarver and **Tin-Yau Tam**, Extension of Wang-Gong monotonicity result in semisimple Lie groups, *Special Matrices*, 3 (2015), 244-249.
28. Durmus Bozkurt and **Tin-Yau Tam**, Determinants and inverses of r-circulant matrices associated with a number sequence, *Linear and Multilinear Algebra*, 63 (2015), 2079-2088.
29. Mary Clair Thompson and **Tin-Yau Tam**, Rutishauser's LR algorithm and Bruhat iteration, *Linear and Multilinear Algebra* 63 (2015), 2061-2070.
30. **Tin-Yau Tam** and Wen Yan, On Ky Fan's result on eigenvalues and real singular values of a matrix, *Linear Algebra and its Applications*, 468 (2015), 3-17.
31. **Tin-Yau Tam** and Mary Clair Thompson, Convergence of Aluthge iteration in semisimple Lie groups, *Journal of the Mathematical Society of Japan*, 66 (2014), 1127-1131.
32. Xuhua Liu, Ming Liao and **Tin-Yau Tam**, A geometric mean for symmetric spaces of noncompact type, *Journal of Lie Theory*, 24 (2014), 725-736.
33. Durmus Bozkurt, **Tin-Yau Tam** and Wen Yan, Singular values and eigenvalues of matrices in  $so_n(\mathbb{C})$  and  $sp_n(\mathbb{C})$ , *Annals of Functional Analysis (AFA)* 5 (2014), 94-100, dedicated to Professor Tsuyoshi Ando.
34. Xuhua Liu and **Tin-Yau Tam**, Connectedness, convexity and generalized numerical range, *The Natalia Bebiano Anniversary Volume*, *Textos de Matematica*, 44 (2013), 107-119.
35. Xuhua Liu and **Tin-Yau Tam**, Extensions of three matrix inequalities to semisimple Lie groups, *Special Matrices* 2 (2013), 148-154.
36. Ming Liao and **Tin-Yau Tam**, Derivatives of group product projections, *Advances in Mathematics (China)*, 45 (2013), 611-619.
37. Xuhua Liu, Brice M. Nguelifack and **Tin-Yau Tam**, Unitary similarity to a complex symmetric matrix and its extension to orthogonal symmetric Lie algebras, *Linear Algebra and its Applications*, 438 (2013), 3789-3796.
38. Randall R. Holmes, Huajun Huang and **Tin-Yau Tam**, Asymptotic behavior of Iwasawa and Cholesky iterations, *Linear Algebra and its Applications*, 438 (2013), 3755-3768.

39. Xuhua Liu and **Tin-Yau Tam**, Gradient flows for the minimum distance to the sum of adjoint orbits, *Linear and Multilinear Algebra*, 61 (2013), 678-696.
40. Wen Yan and **Tin-Yau Tam**, Anti-diagonals of symmetric and skew symmetric matrices with prescribed eigenvalues, *Linear Algebra and its Applications*, 438 (2013), 1446-1453.
41. **Tin-Yau Tam** and Mary Clair Thompson, Determinants of sums of two real matrices and their extensions, *Linear and Multilinear Algebra*, 60 (2012), 1409-1431.
42. Durmus Bozkurt and **Tin-Yau Tam**, Determinants and inverses of circulant matrices with Jacobsthal and Jacobsthal-Lucas Numbers, *Applied Mathematics and Computation*, 219 (2012), 544-551.
43. **Tin-Yau Tam** and Mary Clair Thompson, Determinants of sum of orbits under compact Lie group, *Linear Algebra and its Applications*, 436 (2012), 1644-1650.
44. Alexander Markus and **Tin-Yau Tam**, Connectedness of some fibers on a compact connected Lie group, *Linear and Multilinear Algebra*, 59 (2011), 1121-1126.
45. Xuhua Liu, Dawit G. Tadesse and **Tin-Yau Tam**, A range associated with skew symmetric matrices, *Linear and Multilinear Algebra*, 59 (2011), 1105-1120.
46. Wai-Shun Cheung, Xuhua Liu and **Tin-Yau Tam**, Multiplicities, boundary points, and joint numerical ranges, *Operators and Matrices*, 5 (2011), 41-52.
47. Wai-Shun Cheung and **Tin-Yau Tam**, Star-shapedness and K-orbits in complex semisimple Lie algebras, *Bull. Canad. Math. Soc.*, 54 (2011), 45-55.
48. Piotr Niemiec and **Tin-Yau Tam**, A representation of G-invariant norms for Eaton triple, *Journal of Convex Analysis*, 18 (2011), 59-65.
49. **Tin-Yau Tam**, A. Horn's result on matrices with prescribed singular values and eigenvalues, *Electronic J. Linear Algebra*, 21 (2010), 25-27.
50. **Tin-Yau Tam**, Some exponential inequalities for semisimple Lie groups, *Topics in operator theory, Volume 1. Operators, matrices and analytic functions*, 539-552, *Oper. Theory Adv. Appl.*, 202, Birkhauser, Verlag, Basel, 2010.
51. Atif Abueida, Mark Nielsen and **Tin-Yau Tam**, Inverse spread limit of a nonnegative matrix, *Proyecciones*, 29 (2010), 109-122.
52. **Tin-Yau Tam** and Mary Clair Thompson, Determinant and Pfaffian of sum of skew symmetric matrices, *Linear Algebra and its Applications*, 433 (2010), 412-423.
53. Huajun Huang and **Tin-Yau Tam**, On the Gelfand-Naimark decomposition of a nonsingular matrix, *Linear and Multilinear Algebra*, 58 (2010), 27-43.
54. Huajun Huang and **Tin-Yau Tam**, Aluthge iteration in semisimple Lie group, *Linear Algebra and its Applications*, 432 (2010), 3250-3257.
55. Wai-Shun Cheung and **Tin-Yau Tam**, Pfaffian and decomposable numerical range of a complex skew symmetric matrix, *Linear and Multilinear Algebra*, 57 (2009), 477-489.
56. **Tin-Yau Tam**, Heinz-Kato's inequalities for semisimple Lie groups, *Journal of Lie Theory*, 18 (2008), 919-931.
57. Wai-Shun Cheung and **Tin-Yau Tam**, The K-orbit of a normal element in a complex semisimple Lie algebra, *Pacific Journal of Mathematics*, 238 (2008), 387-398.
58. Huajun Huang and **Tin-Yau Tam**, Some asymptotic behaviors associated with matrix decompositions, *International Journal of Information and Systems Sciences*, 4 (2008), 148-159.
59. **Tin-Yau Tam**,  $\lambda$ -Aluthge iteration and spectral radius, *Integral Equations and Operator Theory*, 60 (2008), 591-596.

60. Huajun Huang and **Tin-Yau Tam**, An asymptotic result on the  $a$ -component in the Iwasawa decomposition, *Journal of Lie Theory*, 17 (2007), 469-479.
61. Huajun Huang and **Tin-Yau Tam**, An asymptotic behavior of  $QR$  decomposition, *Linear Algebra and its Applications*, 424 (2007), 96-107.
62. Randall R. Holmes, Chi-Kwong Li, **Tin-Yau Tam**, Numerical range of the derivation of an induced operator, *J. Austral. Math. Soc.*, 82 (2007), 325-343.
63. **Tin-Yau Tam** and Wen Yan, Unitary completions of complex symmetric and skew symmetric matrices, *Applied Math. E-Notes*, 7 (2007), 84-92.
64. Huajun Huang and **Tin-Yau Tam**, On the convergence of Aluthge sequence, *Operators and Matrices*, 1 (2007), 121-142.
65. **Tin-Yau Tam** and Huajun Huang, An extension of Yamamoto's theorem on the eigenvalues and singular values of a matrix, *Journal of Math. Soc. Japan*, 58 (2006), 1197-1202.
66. **Tin-Yau Tam**, Computing Iwasawa decomposition of symplectic matrix by Cholesky factorization, *Applied Mathematics Letters*, 19 (2006), 1421-1424.
67. Guang-Hui Cheng, Xiao-Yu Cheng, Ting-Zhu Huang, **Tin-Yau Tam**, Some bounds for the spectral radius of the Hadamard product of matrices, *Applied Mathematics E-Notes*, 5 (2005), 202-209.
68. Huajun Huang and **Tin-Yau Tam**, On the  $QR$  iterations of real matrices, *Linear Algebra and its Applications*, 408 (2005), 161-176.
69. Chi-Kwong Li and **Tin-Yau Tam**, Operator properties of  $T$  and  $K(T)$ , *Linear Algebra and its Applications*, 401 (2005), 173-191.
70. **Tin-Yau Tam**, A counterexample to Merikoski-Kumar conjecture, *Applied Mathematics E-Notes*, 5 (2005), 147-149.
71. **Tin-Yau Tam**, Gradient flows and double bracket equations, *Differential Geometry and Applications*, 20 (2004), 209-224.
72. Dragomir Z. Djokovic and **Tin-Yau Tam**, Some questions about semisimple Lie groups originating in matrix theory, *Bull. Canad. Math. Soc.*, 46 (2003), 332-343.
73. **Tin-Yau Tam**, Generalized Schur-concave functions and Eaton triples, *Linear and Multilinear Algebra*, 50 (2002), 113-120.
74. **Tin-Yau Tam**, Convexity of generalized numerical range associated with a compact Lie group, *J. Austral. Math. Soc.*, 72 (2002), 57-66.
75. Marek Niezgoda and **Tin-Yau Tam**, On norm property of  $G(c)$ -radii and Eaton triples, *Linear Algebra and its Applications*, 336 (2001), 119-130.
76. **Tin-Yau Tam**, On the shape of numerical range associated with Lie groups, *Taiwanese J. Math.*, 5 (2001), 497-506.
77. **Tin-Yau Tam** and William C. Hill, On  $G$ -invariant norms, *Linear Algebra and its Applications*, 331 (2001), 101-112.
78. **Tin-Yau Tam**, Group majorization, Eaton triples and numerical range, *Linear and Multilinear Algebra*, 47 (2000), 11-28.
79. Chi-Kwong Li and **Tin-Yau Tam**, Numerical ranges arising from simple Lie algebras, *J. Canad. Math. Soc.*, 52 (2000), 141-171.
80. **Tin-Yau Tam**, Interlacing inequalities and Cartan subspaces of classical real simple Lie algebras, *SIAM J. Matrix Anal. Appl.*, 21 (1999), 581-592.
81. **Tin-Yau Tam**, A Lie theoretical approach of Thompson's theorems of singular values-diagonal elements and some related results, *J. of London Math. Soc.*, (2), 60 (1999), 431-448.

82. Randall R. Holmes and **Tin-Yau Tam**, Distance to the convex hull of an orbit under the action of a compact Lie group, *J. Austral. Math. Soc. Ser. A*, 66 (1999), 331-357.
83. **Tin-Yau Tam**, An extension of a result of Lewis, *Electronic J. Linear Algebra*, 5 (1999), 1-10.
84. **Tin-Yau Tam**, An extension of a convexity theorem of the generalized numerical range associated with  $SO(2n+1)$ , *Proc. Amer. Math. Soc.*, 127 (1999), 35-44.
85. **Tin-Yau Tam**, Partial superdiagonal elements and the singular values of a complex skew symmetric matrix, *SIAM J. Matrix Analysis and Appl.*, 19 (1998), 737-754.
86. **Tin-Yau Tam**, On Lei-Miranda-Thompson's result on singular values and diagonal elements, *Linear Algebra and its Applications*, 272 (1998), 91-101.
87. **Tin-Yau Tam**, A unified extension of two results of Ky Fan on the sum of matrices, *Proc. Amer. Math. Soc.*, 126 (1998), 2607-2614.
88. **Tin-Yau Tam**, Kostant's convexity theorem and the compact classical groups, *Linear and Multilinear Algebra*, 43 (1997), 87-113.
89. **Tin-Yau Tam**, On the behavior of a sequence defined by a periodic recursive relation, *SIAM Matrix Analysis and Appl.*, 18 (1997), 842-860.
90. **Tin-Yau Tam**, Miranda and Thompson's trace inequality and a log convexity result, *Linear Algebra and Its Applications*, 262 (1997), 307-325.
91. Jorma Kaarlo Merikoski, Uoti Urpala, Ari Virtanen, **Tin-Yau Tam** and Frank Uhlig, A best upper bound for the 2-norm condition number of a matrix, *Linear Algebra and its Applications*, 254 (1997), 355-365.
92. **Tin-Yau Tam**, On a conjecture of Ridge, *Proc. Amer. Math. Soc.*, 125 (1997), 3581-3592.
93. **Tin-Yau Tam**, On the cyclic symmetry classes, *Journal of Algebra*, 182 (1996), 557-560.
94. Peter Nylén and **Tin-Yau Tam**, On the spread of a Hermitian matrix and a conjecture of Thompson, *Linear and Multilinear Algebra*, 37 (1994), 3-11.
95. Peter Nylén, **Tin-Yau Tam** and Frank Uhlig, On the eigenvalues of principal submatrices of normal, Hermitian and symmetric matrices, *Linear and Multilinear Algebra*, 36 (1993), 69-78.
96. Shu-An Hu, James F. Hurley and **Tin-Yau Tam**, Nonconvexity of the permanent numerical range, *Linear Algebra and its Applications*, 180 (1993), 121-131.
97. Helmut Langer, Peter Nylén and **Tin-Yau Tam**, A remark on the fundamental theorem of natural selection, *Archiv der Mathematik (Basel)*, 60 (1993), 103-104.
98. Tian-Gang Lei and **Tin-Yau Tam**, On the permanent congruence numerical range, *Linear and Multilinear Algebra*, 32 (1992), 51-59.
99. Randall R. Holmes and **Tin-Yau Tam**, Symmetry classes of tensors associated with certain groups, *Linear and Multilinear Algebra*, 32 (1992), 21-31.
100. Oscar Rojo, Richardo L. Soto, Hector Rojo and **Tin-Yau Tam**, Eigenvalue localization for complex matrices, *Proyecciones*, 11 (1992), 11-19.
101. Shu-An Hu and **Tin-Yau Tam**, On the generalized numerical range with principal character, *Linear and Multilinear Algebra*, 30 (1991), 93-107.
102. **Tin-Yau Tam**, Another proof of a result of Marcus without Plücker relations, *Linear and Multilinear Algebra*, 29 (1991), 313-314.
103. Shu-An Hu and **Tin-Yau Tam**, Operators with permanent numerical ranges on a straight line, *Linear and Multilinear Algebra*, 29 (1991), 263-277.
104. Peter Nylén and **Tin-Yau Tam**, Numerical range of a doubly stochastic matrix, *Linear Algebra and its Applications*, 153 (1991), 161-176.

105. **Tin-Yau Tam**, On the numerical range of an induced power, *Linear and Multilinear Algebra*, 23 (1988), 207-211.
106. **Tin-Yau Tam**, Linear operators on matrices: the invariance of the decomposable numerical range II, *Linear Algebra and its Applications*, 92 (1987), 197-207.
107. **Tin-Yau Tam**, Linear operators on matrices: the invariance of the decomposable numerical radius, *Linear Algebra and its Applications*, 87 (1987), 147-153.
108. **Tin-Yau Tam**, The generalized spectral matrices and radial matrices on symmetry classes of tensors, *Linear Algebra and its Applications*, 85 (1987), 29-48.
109. **Tin-Yau Tam**, Linear operators on matrices: the invariance of the decomposable numerical range, *Linear Algebra and its Applications*, 85 (1987), 1-7.
110. **Tin-Yau Tam**, Induced operators on symmetry classes of tensors, *Monatshefte für Mathematik*, 101 (1986), 245-252.
111. **Tin-Yau Tam**, On the generalized  $m$ th decomposable numerical radius on symmetry classes of tensors, *Linear and Multilinear Algebra*, 19 (1986), 117-132.
112. **Tin-Yau Tam**, On the generalized radial matrices and a conjecture of Marcus and Sandy, *Linear and Multilinear Algebra*, 19 (1986), 11-20.
113. **Tin-Yau Tam** and Nam-Kiu Tsing, Research problem: the congruence numerical range, *Linear and Multilinear Algebra*, 19 (1986), 405.
114. **Tin-Yau Tam**, Note on a paper of R. C. Thompson: "The congruence numerical range", *Linear and Multilinear Algebra*, 17 (1985), 107-115.
115. **Tin-Yau Tam**, A unified extension of some results of Thompson, Marcus and Moyls, *Monatshefte für Mathematik*, 98 (1984), 157-165.
116. Chi-Kwong Li, **Tin-Yau Tam**, and Nam-Kiu Tsing, The generalized spectral radius, numerical radius and spectral norm, *Linear and Multilinear Algebra*, 16 (1984), 215-237.

**Papers Submitted for Publication:**

1. Deyu Wu, Alatanchang Chen, **Tin-Yau Tam**, Completeness theorem for the root vector system of infinite dimensional Hamiltonian operator.

**Non-Research Articles:**

1. **Tin-Yau Tam**, A mathematician who harvested numbers, *Nevada Today*, April 7, 2020. <https://www.unr.edu/nevada-today/blogs/2020/math-awareness-month>
2. **Tin-Yau Tam**, Qing-Wen Wang and Fuzhen Zhang, Conference report: 8th International Conference on Matrix Analysis and Applications (ICMAA 2019) University of Nevada, Reno, July 15-18, 2019, *IMAGE*, Volume 63, Fall 2019, p.24.
3. **Tin-Yau Tam**, Roy Westwick, 1933-2019, *IMAGE* 62, Volume 62, Spring 2019, p.41.
4. **Tin-Yau Tam**, Feature Interview with Frank Uhlig: A Special Cooperative and Open-minded Community, *IMAGE*, Volume 55, Fall 2015, p.3-5.
5. Yiu-Tung Poon, **Tin-Yau Tam**, Ngai-Ching Wong, Preface [Special Issue: WONRA 2014]. Held in Sanya, July 28-August 1, 2014. *Linear Multilinear Algebra* 64 (2016), no. 1.
6. Peter Šemrl, Tin-Yau Tam, Fuzhen Zhang, Preface [Special issue: proceedings from the 2013 International Conference on Matrix Analysis and Applications]. Held in Konya, July 2-5, 2013. *Linear Multilinear Algebra* 63 (2015), no. 10, p.1915.
7. **Tin-Yau Tam**, Conference report: Frank Uhlig Retirement Colloquium, Auburn University, August 23, 2013, *IMAGE*, Volume 52, Spring 2014, p.35.

8. Frank Uhlig, **Tin-Yau Tam** and David Carlson, Directions in Matrix Theory, Auburn 1990, Conference Report, Linear Algebra and its Applications, 162-164 (1992), 711-723.
9. Peter Nylén, **Tin-Yau Tam** and Frank Uhlig, Solution to problem 10205, Amer. Math. Monthly, 100 (1990), 881-882.

**Book:**

1. **Tin-Yau Tam** and Xuhua Liu, *Matrix Inequalities and their Extensions to Lie Groups*, CRC/Taylor & Francis Group, 2018.

**Book Chapter:**

Randall R. Holmes and Tin-Yau Tam, Group Representation - a book chapter of CRC Handbook of Linear Algebra (HLA) edited by L. Hogben, Chapman & Hall/CRC, 2007, 2<sup>nd</sup> edition 2013.

**Book Review:**

1. Book review/appraisal for an advanced linear algebra text for World Scientific, 2021 (with Pan Shun Lau).
2. Book review/appraisal for an ordinary differential equation text for Chapman & Hall/CRC, 2017.
3. Book review/appraisal for a matrix theory text for Chapman & Hall/CRC, 2017.
4. Book review/appraisal for a differential equation text for Chapman & Hall/CRC, 2017.
5. Book review/appraisal for a real analysis text for Chapman & Hall/CRC, 2017.
6. Book review on the book “Matrix Theory” by Fuzhen Zhang, 2<sup>nd</sup> edition, Springer, 2011 for Linear Algebra and its Applications, 437 (2012), 1426-1427.
7. Book review/appraisal for a numerical linear algebra text for Elsevier Science, 2011.
8. Book review on Steven Leon's Linear Algebra, 8<sup>th</sup> edition, Prentice Hall, 2008.
9. Two book reviews for World Scientific Publishing (undergraduate linear algebra text, and graduate representation theory of Lie group), 2006.
10. Book review for Prentice Hall (undergraduate linear algebra), 2006.

**Mathematical Journal Editorial Board:**

1. Alabama Journal of Mathematics (Editor-in-Chief, 2013-2018)
2. Linear and Multilinear Algebra (Editorial Board, 2008-present)
3. Electronic Journal of Linear Algebra (Associate Editor, 2011-present)
4. Special Matrices (Editorial Advisory Board, 2013-present)
5. Proyecciones, Revista de Matematica (Associate Editor, 1993-2018)

**Guest Journal Editor:**

1. Special issue of Southeast Asian Bulletin of Mathematics (SEABM) in memory of Professor Ky Fan (1914-2010), Volume 6 (Issues 5 and 6), 2022 jointly with Pan Shun Lau, Kar-Ping Shum, Ngai-Ching Wong.
2. Special issue on the numerical range and numerical radius, Linear and Multilinear Algebra, Edited by Yiu-Tung Poon, Tin-Yau Tam, and Takeaki Yamazaki, Proceedings of the 15th Workshop on Numerical Ranges and Numerical Radii (WONRA), Toyo University, Kawagoe Campus, Japan, June 21-24, 2019.
3. Special issue “Matrix Analysis and Its Applications”, Acta Mathematica Vietnamica, Volume 43,

Issue 4, December 2018, Edited by Trung Hoa Dinh, Hiroyuki Osaka, Tin-Yau Tam, Qing-Wen Wang, and Fuzhen Zhang, Proceeding of International Conference on Matrix Analysis and Applications (ICMAA 2017), Da Nang, Vietnam, June 14-18, 2017.

4. Special issue on the numerical range and numerical radius, *Linear and Multilinear Algebra* 64 no.1 (2016), Edited by Yiu-Tung Poon, Ngai-Ching Wang and Tin-Yau Tam, proceedings of the 12th workshop on the Numerical Ranges and Radii, Tsinghua Sanya International Mathematics Forum (TSIMF), in Sanya, Hainan, China, July 28-Aug. 1, 2014.
5. Special issue, *Linear and Multilinear Algebra* 63 no.10 (2015), Edited by Peter Semrl, Tin-Yau Tam, Fuzhen Zhang, proceedings of the 4<sup>th</sup> International Conference on Matrix Analysis Applications, Konya, Turkey, July 2-5, 2013.
6. Quantum Information Science, and Numerical Ranges, a special issue on the numerical range and numerical radius, *Linear and Multilinear Algebra* 59 no.10, 2011 (Edited by K. Audenaert, Yiu-Tung Poon and Tin-Yau Tam), proceedings of the 10th Workshop on the Numerical Ranges and Numerical Radii, Instytut Matematyki, Uniwersytet Jagielloński, Krakow, Poland, 2010.
7. Special issue on the numerical range and numerical radius, *Linear and Multilinear Algebra* 57, no 5, 2009 (Edited by Chi-Kwong Li and Tin-Yau Tam), proceedings of the 9th Workshop on the Numerical Ranges and Numerical Radii, College of William and Mary, Williamsburg, Virginia, 2008.
8. Special issue on the numerical range and numerical radius, *Linear and Multilinear Algebra* 52, no.3-4, 2004 (Edited by Chi-Kwong Li and Tin-Yau Tam), proceedings of the 6th Workshop on the Numerical Ranges and Numerical Radii, Auburn University, 2002.
9. Proceedings of the 10th Conference of the International Linear Algebra, *Linear Algebra Appl.* 379 Elsevier Science B.V., Amsterdam, 2004 (Edited by Ravindra B. Bapat, M. (Rien) A. Kaashoek, Roy Mathias, Tin-Yau Tam and Frank Uhlig).

**Professional Membership:**

- International Linear Algebra Society (ILAS) since 1998
- American Mathematical Society (AMS) since 2012
- Nevada Chapter of the American Statistical Association (NV-ASA) since 2021
- Nevada Faculty Alliance (NFA) since 2020

**Referee for International Mathematical Journals:**

1. *Advances in Computational Mathematics*
2. *Advances in Mathematics*
3. *Applied Mathematics and Computation*
4. *Applied Mathematics E-notes*
5. *Applied Mathematics Letters*
6. *American Mathematical Monthly*
7. *Banach Journal of Mathematical Analysis*
8. *Boletín de la Sociedad Matemática Mexicana*
9. *Bulletin of the Australian Mathematical Society*
10. *Bulletin of the Iranian Mathematical Society*
11. *Canadian Mathematical Bulletin*
12. *CALCOLO - A Quarterly on Numerical Analysis and Theory of Computation*

13. Canadian Journal of Mathematics
14. Chinese Journal of Mathematics
15. Communications in Algebra
16. Computers & Mathematics with Applications
17. Czechoslovak Mathematical Journal
18. Discrete Mathematics, Algorithms and Applications (DMAA)
19. Differential Equations and Dynamical Systems
20. Electronic Journal of Linear Algebra
21. Entropy
22. International Conference of Numerical Analysis and Applied Mathematics 2014
23. International Journal of Mathematics and Statistics
24. Journal of Algebra
25. Journal of Algebra and Its Applications
26. Journal of the Canadian Mathematical Society
27. Journal of Computational Methods in Sciences and Engineering (JCMSE)
28. Journal of Convex Analysis
29. Journal of Lie Theory
30. Journal of Operators and Matrices
31. Journal of Operator Theory and Integral Equations
32. Journal of Scientific Computing
33. Korean Journal of Mathematics
34. Linear Algebra and its Applications (LAA)
35. Linear and Multilinear Algebra (LAMA)
36. Mathematical and Computer Modeling
37. Mathematical Methods in the Applied Sciences
38. Mathematische Nachrichten
39. Numerical Algorithms
40. Positivity
41. Proceedings of the American Mathematical Society
42. Publications de l'Institut Mathématique
43. SIAM Journal on Matrix Analysis and Applications
44. SIAM Journal on Optimization
45. Taiwanese Journal of Mathematics

**Reviewer:**

1. Mathematical Reviews, American Mathematical Society
2. Zentralblatt Math Reviews, Zentralblatt für Mathematik
3. Zentralblatt Prague Math Reviews
4. NSA proposals
5. Macau University research proposal
6. Hong Kong Research Grants Council (RGC)

**Grants/Funding Supports:**



1. Senior Personnel, NSF Grant (\$298,184, PI: Matthew Ragland, Co-PIs: Ann Gulley, Luke Smith), Solving Problems of Mathematics Accessibility with Process, July 12, 2017- July 31, 2019. Due to moving to Nevada, the collaboration didn't continue.
2. Faculty Travel Award from COSAM for the special session "Matrix Analysis and Its Applications" in the 3rd Pacific Rim Mathematical Association (PRIMA 2017) Congress, Oaxaca, Mexico, August 14-18, 2017.
3. Faculty Travel Award from COSAM for the 2016 ILAS Conference, Leuven, Belgium, July 11-15, 2016.
4. Turkish Mevlana Exchange Program Grant \$1,700, Cankiri Karatekin University, May 9-23, 2016.
5. Faculty Travel Award from COSAM and funding support from DMS for the 2015 Workshop on Matrices and Operators, Shaanxi Normal University, Xi'an, Shaanxi, China, July 19-21, 2015, and the 2015 International Workshop on Matrix Inequalities and Matrix Equations, Shanghai University, Shanghai, China, June 28-30, 2015.
6. Senior Personnel, NSF grant "Infusing Data-Enabled Active Learning in Mathematics and Statistics Courses" 2014-2017 (PI: Carl Pettis, co-PIs: Ash Abebe, Rajendran Swamidural, \$339,976).
7. Auburn University Outreach grant (PI) \$17,500 to promote Mathematics in Alabama through the Alabama Journal of Mathematics (AJM), August 2014-August 2016.
8. Assessor, NSF Robert Noyce Teacher Scholarship Program for Northern New Mexico College (NNMC), June 2010- May 2017, \$1,152,055 (PI: David Torres of NNMC).
9. Faculty Travel Award from COSAM and funding support from DMS for the ILAS 2014 Workshop on Matrices and Operators, Haikou, Hainan, China, and 2014 Workshop on Numerical Ranges and Radii, Sanya, Hainan, China.
10. Faculty Travel Award from COSAM and funding support from DMS for the 8th Workshop on Matrices and Operators, Beijing Normal University, Beijing, China, July 15-19, 2013.
11. Turkish Science Foundation (TUBITAK), International Travel Grant for exchange scholar, April 2013.
12. Funding support from COSAM Dean's Office to cover all expenses for the ACE Leadership Academy for Department Chairs, Eaglewood Conference Center, Chicago/Itasca, Illinois, USA, Oct. 15-16, 2012.
13. Funding support from McGraw-Hill to cover all expenses for the ALEKS Placement Focus Group Workshop, Kent State University, Ohio, USA, Oct. 11-13, 2012.
14. Faculty Travel Award from COSAM and funding support from DMS for the 7th Workshop on Matrices and Operators, Harbin Engineering University, Harbin, Heilongjiang, China, July 13-16, 2012 and the 11th Workshop on Numerical Ranges and Numerical Radii, National Sun Yat-sen University, Kaohsiung, Taiwan, July 9-12, 2012.
15. Research collaboration grant from the School of Mathematical Sciences, Inner Mongolia University, Hohhot, Inner Mongolia, China, June 9-29, 2012.
16. Funding support from DMS for MAA Southeastern Section Annual Meeting, Clayton State University, Georgia, USA, March 9-10, 2012.
17. Turkish Science Foundation (TUBITAK) International Travel Grant for exchange scholar, April 2012.
18. Faculty Travel Award from COSAM (\$500) and funding support from DMS for an invited talk in the 6th Workshop on Matrices and Operators, Chengdu, China, July 2011.

19. Funding support from DMS to (1) study the web-based math instruction; (2) attend the MAA SE Section Liaisons meeting, University of Alabama, Tuscaloosa, USA, March 31-April 2011.
20. Faculty Travel Award from COSAM and funding support from OIRA for the 1<sup>st</sup> Association of the Assessment of Learning in Higher Education (AALHE) Conference: The Practice of Assessment, University of Kentucky, Lexington, Kentucky, USA, June 6-7, 2011.
21. Funding support Grant from DMS for the AMS/MAA meeting in New Orleans, Louisiana, USA, Jan 6-9, 2011.
22. Faculty Travel Award from COSAM and funding support from COSAM Dean's Office (Dr. Marie Wooten) and DMS for the invited talks at the 16<sup>th</sup> ILAS Conference at Pisa, Italy, June 21-25, 2010; the 10th Workshop on Numerical Ranges and Numerical Radii, Instytut Matematyki, Uniwersytet Jagielloński, Krakow, Poland, June 27-29, 2010; the 5th Workshop on Matrices and Operators, Taiyuan University of Sciences and Technology, Taiyuan, China, July 12-15, 2010.
23. Funding support from the Provost Office to cover all expenses to attend the workshops for SECAC Academic Leadership Development Program at University of Mississippi, Oxford, USA, October 5-7, 2009 and University of Alabama, Tuscaloosa, USA, February 17-19, 2010.
24. Faculty Travel Award from COSAM, funding support from DMS, and grant support from the Taiwan National Science Council (NSC) for the invited talks in the 3rd International Workshop on Matrix Analysis and Applications, Zhejiang Forestry University, Hangzhou/Lin'an, China, July 9-13, 2009; the 4th Workshop on Matrices and Operators, National Sun Yat-sen University, Taiwan, July 3-4, 2009.
25. Faculty Travel Award from COSAM for the symposium of Matrix and Operator Inequalities and the 9<sup>th</sup> Workshop on Numerical Ranges and Numerical Radii, College of William and Mary, Williamsburg, Virginia, USA, 2008.
26. Faculty Travel Award from COSAM, funding support from DMS and grant support from the University of Hong Kong for an invited talk at the 3th Workshop on Matrices and Operators, University of Hong Kong, Hong Kong, May 24-25, 2008.
27. Faculty Travel Award from COSAM, funding support from DMS for holding the Robert C. Thompson Matrix Meeting in Auburn University, March 2007. Report is published in the Bulletin of the ILAS, Issue 38, Spring 2007.
28. Funding support from DMS for an invited talk at the 1st Workshop on Matrices and Operators, University of Hong Kong, Hong Kong, April 13-14, 2007.
29. Funding support from DM for an invited talk at the Robert C. Thompson Matrix Meeting, San Jose, California, USA, 2005.
30. Faculty Travel Award from COSAM for an invited talk at the Robert C. Thompson Matrix Meeting, San Francisco, California, USA, 2004.
31. Faculty Travel Award from COSAM and funding support from DMS for organizing the 6th Workshop on Numerical Ranges and Numerical Radii, Auburn University, June 2002.
32. Faculty Travel Award from COSAM and research funding support from Vice President's Office for Research and the conference organizing committee in Israel for an invited talk at the 9th ILAS Conference, Haifa, Israel, June 2001 (declined due to severe security concern in Haifa).
33. Research funding support from Vice President's Office for Research to present a talk in IMCAA 2000 in Taiwan, 2000.
34. Grant from Taiwan National Science Council (NSC) to conduct research as visiting scholar in June 2000.

35. Research funding support from Vice President's Office for Research and Faculty Travel Award from COSAM for presenting talks at the Geometric and Combinatorial Methods in the Hermitian Sum Spectral Problem Workshop, Coimbra, Centro Internacional de Matematica, Centro de Matematica da Universidade de Coimbra, Portugal, July 15-16, 1999 (with local support from the organizer) and the ILAS 8th conference, Universitat Politecnica de Catalunya, Barcelona, Spain, July 19-22, 1999.
36. Grant from NSF/EPSCoR for an invited talk at the 4th Workshop on Numerical Ranges and Numerical Radii, and the 7th ILAS conference in Madison, Wisconsin, USA, June 1998.
37. Grant from NSF/EPSCoR and research funding support from Vice President's Office for Research and University of Hong Kong to present an invited talk at an AMS conference in Chattanooga, Tennessee, 1996; to conduct research and present talks in Hong Kong and China, 1996-1997; and to recruit graduate students.
38. Faculty Travel Award from COSAM, research funding support from Vice President's Office for Research, and funding support from Mathematics Department and University of Hong Kong to present talks at the 3rd Matrix Conference held at the University of Hong Kong, Hong Kong 1995, and the 5<sup>th</sup> ILAS Conference held at University of Georgia, Athens, Georgia, USA, 1995.
39. Faculty Travel Award from COSAM for organizing the 1st South-East Mini-Conference on Matrix Theory, University of Tennessee at Chattanooga, Tennessee, USA, 1994.
40. Grant from Taiwan National Science Council to conduct research activities in Taiwan from March 10-19, 1994.
41. Research funding support from the University of Hong Kong to conduct research activities at the University of Hong Kong, Hong Kong, January-March 1994.
42. Grant from NSF/EPSCoR for presenting a talk at the 3rd ILAS meeting in Pensacola, Florida, USA, 1993.
43. Research funding support from Office of International Programs for visiting China and Hong Kong to conduct research activities and to recruit graduate students in Mathematics, 1992.
44. Faculty Travel Award from COSAM for attending the 1st Workshop on Numerical Ranges and Numerical Radii, as an invited speaker, College of William and Mary, Williamsburg, Virginia, USA, 1992.
45. Funding support from NSF/CBMS for attending and presenting in the Regional Research Conference on Qualitative and Structured Matrix Theory in Atlanta, Georgia, USA, 1991.
46. Grant from NSF/EPSCoR for attending the SIAM conference on Applied Linear Algebra in Minneapolis, Minnesota, USA, 1991.
47. Travel award from the City University of Hong Kong for contributed talks at the 1<sup>st</sup> International Conference and Workshop on Optimal Designs, Neuchatel, Switzerland, July 1988, and the Conference of Applications on Matrix Theory, Bradford, England, July 1988.

**Workshops & Conferences Organized:**

1. Organizer, mini-symposium "Matrix Analysis and Applications," the 10<sup>th</sup> International Congress on Industrial and Applied Mathematics (ICIAM 2023), to be held in Tokyo, Japan, August 20-25, 2023 (with Luyining Gan, Qing-Wen Wang and Yang Zhang)
2. Organizer, the 10th International Conference on Matrix Analysis and Applications (ICMAA 2023, Hybrid), to be held at Yunnan University, Kunming, China, August 15-18, 2023 (with Chaoqian Li, Qing-Wen Wang, Fuzhen Zhang).

3. Organizer, mini-symposium “Matrix and Operator Means,” the 25<sup>th</sup> Conference of the International Linear Algebra Society (ILAS 2023), to be held in Madrid, Spain, June 12-16, 2023 (with Sushil Singla and Sejong Kim)
4. Organizer, ILAS-JMM Special Session “Matrices and Operators” at the 2023 Joint Mathematics Meetings, Boston, January 4-7, 2023 (with Mohsen Aliabadi and Pan Shun Lau).
5. Organizer, the 9th International Conference on Matrix Analysis and Applications (ICMAA 2022), University of Aveiro, Portugal, June 15-17, 2022 (with Enide Andrade, Rute Lemos, Qing-Wen Wang, Fuzhen Zhang).
6. Organizer, ILAS-JMM Special Session “Matrix Analysis and Applications” at the 2022 Joint Mathematics Meetings (Virtual), April 6-9, 2022 (with Mohsen Aliabadi and Luyining Gan).
7. Scientific Organizing Committee, the 2021 China-Korea International Conference on Matrix Theory with Applications & the 6th International Workshop on Matrix Inequalities and Matrix Equations (IRCTMT-AORC Joint Meeting & MIME 2021, Virtual) Hainan Normal University, Hainan, China & Shanghai University, China, November 26-27, 2021.
8. Organizer, mini-symposium (12 speakers in three sessions; Virtual) “Matrix Equations, Matrix Inequalities, and Applications” at SIAM Conference on Applied Linear Algebra (LA21), New Orleans, May 17-21, 2021 (with Dominique Guillot and Pan Shun Lau).
9. Organizer, Lecture Series on Renowned Chinese Mathematicians in the 20th Century Who Made Great Contributions to Matrix Theory (Zoom), December 11, 18, 25, 2020 (with Fuzhen Zhang and Qing-Wen Wang).
10. Organizer, 8th International Conference on Matrix Analysis and Applications (ICMAA 2019), University of Nevada, Reno, Nevada, USA, July 15-18, 2019 (with Qing-Wen Wang and Fuzhen Zhang).
11. Co-organizer, Mini-symposium “Matrix Equations and Matrix Inequalities,” 2019 ILAS Conference, Rio de Janeiro, Brazil, July 8-12, 2019 (with Qing-Wen Wang and Fuzhen Zhang).
12. Scientific Organizing Committee, the 2019 International Workshop on Matrix Inequalities and Matrix Equations, Guilin University of Electronic Technology, Guangxi, China, June 7-9, 2019.
13. Scientific Organizing Committee, the 2018 China-Korea International Conference on Matrix Theory with Applications, Shanghai University, Shanghai, China, December 17-20, 2018.
14. Co-organizer, the 7th International Conference on Matrix Analysis and Applications (ICMAA 2018), Shinshu University, Nagano Prefecture, Japan, June 22-25, 2018 (with Hiroyuki Osaka, Hiromichi Ohno, Qing-Wen Wang, Fuzhen Zhang).
15. Scientific Organizing Committee, the 2018 International Workshop on Matrix Inequalities and Matrix Equations (MIME 2018), Shanghai University, Shanghai, China, June 8-10, 2018.
16. Organizer, the 2017 Mathematical Biology Workshop, Auburn University, Alabama, USA, August 24, 2017 (with Overtoun Jenda).
17. Co-organizer, the 6th International Conference on Matrix Analysis and Applications (ICMAA 2017), Duy Tan University, Vietnam, June 14-18, 2017 (with Trung Hoa Dinh, Hiroyuki Osaka, Tin-Yau Tam, Qing-Wen Wang, and Fuzhen Zhang).
18. Scientific Organizing Committee, 2017 International Workshop on Matrix Inequalities and Matrix Equations, Shanghai University, Shanghai, China, June 8-10, 2016 (with Delin Chu, Alexander E. Guterman, Chi-Kwong Li, Qing-Wen Wang, Fuzhen Zhang, Yang Zhang).

19. Scientific Organizing Committee, the 2016 International Workshop on Matrix Inequalities and Matrix Equations, Shanghai University, Shanghai, China, June 8-10, 2016 (with Delin Chu, Chi-Kwong Li, Qing-Wen Wang, Fuzhen Zhang).
20. Organizer, the 2016 Southern Regional Algebra Conference (SRAC), Auburn University, Auburn, March 18-20, 2016 (with Ulrich Albrecht).
21. Co-organizer, the 5th International Conference on Matrix Analysis and Applications (ICMAA 2015), Nova Southeastern University, Fort Lauderdale, Florida, USA, December 18-20, 2015 (with Shaun Fallat, Peter Semrl, Qing-Wen Wang, Fuzhen Zhang).
22. Scientific Organizing Committee, the 2015 International Workshop on Matrix Inequalities and Matrix Equations, Shanghai University, Shanghai, China, June 28-30, 2015 (with Chi-Kwong Li, Qing-Wen Wang, Changqing Xu, Fuzhen Zhang).
23. Scientific Organizing Committee, the 2014 Shanghai International Conference on Matrix Analysis and Applications (SICMAA2014), Shanghai University, Shanghai, China, December 14-16, 2014.
24. Organizer, ILAS 2014 Minisymposium “Inequalities in Matrix, Operators, and Lie Groups”, Seoul, Korea, August 6-9, 2014 (with Natalia Bebiano).
25. Scientific Organizing Committee, Karatekin Mathematics Days, Turkey, June 11-13, 2014.
26. Scientific Organizing Committee, the 2013 Shanghai International Conference on Matrix Analysis and Applications (SICMAA2013), Shanghai, China, December 27-29, 2013, in honor of the 80<sup>th</sup> birthday of Professor Er-Xiong Jiang.
27. Scientific Organizing Committee, the 4th International Conference on Matrix Analysis and Applications, Konya, Turkey, July 2-5, 2013.
28. Organizer, Matrix Workshop in honor of Frank Uhlig’s retirement, August 23, 2013.
29. Scientific Organizing Committee, the 18th ILAS Conference, Providence, RI, USA, June 3-7, 2013.
30. Organizer, three training workshops for department Chairs/Heads/Assistant & Associate Deans of Auburn University, Spring 2009.
31. Organizer, three assessment workshops for COSAM’s assessment officers, Spring 2009.
32. Organizer, the 1st Workshop on Matrices and Operators (with Jor-Ting Chan and Chi-Kwong Li), University of Hong Kong, April 13-14, 2007.
33. Organizer, Robert C. Thompson Matrix Meeting (with Wasin So and Jane Day), Auburn University, March 24, 2007.
34. Organizer, the 6<sup>th</sup> Workshop on Numerical Ranges and Radii (with Chi-Kwong Li), Auburn University, June 7-8, 2002.
35. Member, Local Organizing Committee of the international conference “Challenges in Matrix Theory”, Auburn University, June 10-13, 2002.
36. Organizer, the 1st Southeast Conference on Matrix Theory (with Ron Smith), University of Tennessee, Chattanooga, 1994.
37. Co-organizer, the international conference “Directions in Matrix Theory” (with Frank Uhlig), Auburn University, 1990.
38. Scientific Organizing Committee, the 1st International Conference on Algebraic Structure and Number Theory, Hong Kong, 1988.

**Colloquia/Invited Talks/Conference Talks/Conferences Attended:**

1. **Invited talk** (25 minutes), Mini-symposium “Matrix Analysis and Applications,” the 10<sup>th</sup> International Congress on Industrial and Applied Mathematics (ICIAM 2023), Tokyo, Japan, August

- 20-25, 2023.
2. **Keynote Lecture**, the 12th Seminar on Linear Algebra and Its Applications, Shahand University of Technology, Tabriz, Iran, July 18-19, 2023.
  3. **Keynote Lecture**, Matrix Analysis and Its Applications, to be held at Quynhon University, Vietnam, July 7-8, 2023.
  4. **Invited talk** (25 minutes), Mini-symposium “Matrix and Operator Means,” the 25<sup>th</sup> Conference of the International Linear Algebra Society (ILAS 2023), Madrid, Spain, June 12-16, 2023.
  5. **Contributed talk** (20 minutes), Special Session on Combinatorial Matrix Theory at the 2023 AMS Spring Southeastern Sectional Meeting, Georgia Institute of Technology, Atlanta, Georgia, USA, on March 18-19, 2023.
  6. **Invited talk**, The Workshop on Matrix Theory and Its Applications (in honor of the retirement of Professor Frank Hall), Georgia State University, Atlanta, Georgia, USA, March 16-17, 2023.
  7. **Colloquium**, Department of Mathematical Sciences, University of Nevada, Las Vegas, USA, February 23, 2023.
  8. **Invited talk** (25 minutes), ILAS-JMM Special Session “Matrices and Operators” at the 2023 Joint Mathematics Meetings, Boston, USA, January 4-7, 2023.
  9. **Colloquium** (Virtual), School of Mathematics, Hefei University of Technology, Hefei, Anhui, China, January 2, 2023.
  10. **Colloquium** (Virtual), School of Mathematics and Statistics, Xidian University, Xi’an, Shaanxi, China, December 17, 2022.
  11. **Invited talk** (30 minutes, Virtual), 2022 China-Korea International Conference on Matrix Theory with Applications, Jeju, South Korea, December 1-5, 2022.
  12. **Keynote Lecture** (60 minutes, Virtual), the Second International Workshop on Matrix Theory and Its Applications, hosted by the Department of Mathematics at Sukkur IBA University, Pakistan, the Department of Mathematics at Naresuan University, Thailand, and Bukhara State University, Uzbekistan, November 15-17, 2022.
  13. **Colloquium** (Virtual), School of Mathematics and Statistics, Northeast Normal University, Changchun, Jilin, China, October 14, 2022.
  14. **Colloquium** (Virtual), Department of Mathematics and Statistics, Georgia State University, USA, September 23, 2022.
  15. **Contributed talk** (Virtual), The 9th International Conference on Matrix Analysis and Applications (ICMAA 2022), University of Aveiro, Portugal, June 15-17, 2022.
  16. **Invited talk** (Virtual, 25 minutes), Workshop on Matrix Analysis and Its Applications, Quy Nhon University, Vietnam, June 4, 2022.
  17. **Seminar talk** (Virtual), Trojan Math Seminar, Troy University, Troy, Alabama, USA, February 17, 2022.
  18. **Colloquium** (Virtual), School of Mathematics, Hefei University of Technology, Hefei, Anhui, China, January 4, 2022.
  19. **Invited talk** (Virtual, 30 minutes), The 2021 China-Korea-USA International Conference on Matrix Theory with Applications & the 6th International Workshop on Matrix Inequalities and Matrix Equations (IRCTMT-AORC Joint Meeting & MIME 2021), Hainan Normal University, Hainan, China, and Shanghai University, China, November 26-27, 2021.
  20. The 2021 Fall Symposium and Annual Meeting (Virtual), Nevada Chapter of the American Statistical Association (NV-ASA), October 16, 2021.

21. **Keynote Lecture** (Virtual, 60 minutes), The First NU-SIBAU International Workshop on Matrix Theory and Its Applications, hosted by the Department of Mathematics at Sukkur IBA University, Pakistan and the Department of Mathematics at Naresuan University, Thailand, October 15-17, 2021.
22. **Plenary talk** (Virtual, 45 minutes), The Second International Conference on Mathematics and Its Applications in Science and Engineering (ICMASE 2021), Universidad de Salamanca, Spain, July 1-2, 2021.
23. **Contributed talk** (Virtual, 30 minutes), The 15th Western Canada Linear Algebra Meeting (WCLAM), Brandon University, Manitoba, Canada, May 29-30, 2021.
24. **Colloquium** (Virtual), School of Mathematics and Information Science, Guangxi University of Nationalities, Nanning, China, May 25, 2021.
25. Mini-symposium (Virtual) “Matrix Equations, Matrix Inequalities, and Applications” at SIAM Activity Group on Linear Algebra (SIAG/LA) Conference in New Orleans, May 17-21, 2021.
26. **Colloquium** (Virtual), School of Mathematics and Statistics, Xi’an Jiaotong University, Xi’an, Shaanxi, China, May 16, 2021.
27. Nevada Chapter of the American Statistical Association (NV-ASA) “Careers in Data Science & Statistics” Virtual Symposium 3 (Main Speaker: Brian Karp), April 27, 2021.
28. Nevada Chapter of the American Statistical Association (NV-ASA) “Careers in Data Science & Statistics” Virtual Symposium 2 (Main Speaker: Lissa Callahan), March 23, 2021.
29. **Invited talk** (Virtual, 30 minutes), Southern Regional Algebra Conference (SRAC 2021), Georgia College, Milledgeville, Georgia, USA, March 19-21, 2021.
30. Nevada Chapter of the American Statistical Association (NV-ASA) “Careers in Data Science & Statistics” Virtual Symposium 1 (Main Speaker: Julia Anderson), February 25, 2021.
31. Nevada Chapter of the American Statistical Association (NV-ASA) - Spring Virtual Symposium (Main Speakers: Ole J. Forsberg and Kenneth Miller), January 30, 2021.
32. **Lecture** (Zoom, 60 minutes), Hwa-Chung Lee - Mathematical Pioneer Who Left Too Early (second lecture of the Lecture Series on Renowned Chinese Mathematicians in the 20<sup>th</sup> Century Who Made Great Contributions to Matrix Theory), December 18, 2020.
33. **Colloquium** (Virtual), School of Mathematics and Statistics, Northeast Normal University, Changchun, Jilin, China, December 9, 2020.
34. **Colloquium** (Zoom), Department of Computational and Applied Mathematics, University of Chicago, Chicago, Illinois, December 3, 2020.
35. **Colloquium** (Zoom), Department of Mathematics and Statistics, University of Nevada, Reno, Nevada, USA, November 5, 2020.
36. **Colloquium** (Zoom), Seminario de Análisis Funcional “Mischa Cotlar”, El Instituto Argentino de Matemática “Alberto P. Calderón”, Buenos Aires, Argentina, October 2, 2020.
37. **Plenary talk** (60 minutes, Virtual), 10<sup>th</sup> Seminar on Linear Algebra and Its Applications, Shahid Bahonar University of Kerman, Kerman, Iran, August 16-19, 2020.
38. **Contributed talk**, Joint Mathematics Meetings, Denver, Colorado, USA, January 14-17, 2020.
39. **Colloquium**, Department of Mathematics, Shenzhen University, Shenzhen, China, January 9, 2020.
40. **Colloquium**, Department of Mathematics, Wuyi University, Jiangmen, China, January 8, 2020.
41. **Colloquium**, School of Mathematical Sciences, South China Normal University, Guangzhou, China, January 6, 2020.

42. **Colloquium**, School of Mathematics and Information Science, Guangxi University of Nationalities, Nanning, China, January 3, 2020.
43. **Colloquium**, School of Mathematics and Computing Science, Guilin University of Electronic and Technology, Guilin, China, January 1, 2020.
44. **Colloquium**, Department of Mathematics, Sichuan Normal University, Chengdu, China, December 31, 2019.
45. **Colloquium**, School of Mathematical Sciences, University of Electronic and Technology, Chengdu, China, December 30, 2019.
46. Groupoidfest 2019, In honor of Jean Renault's 70th Birthday, University of Nevada, Reno, Nevada, USA, November 9-10, 2019.
47. 2019 Fall Symposium, Nevada Chapter of the American Statistical Association (NV-ASA), University of Nevada, Reno, Nevada, USA, October 19, 2019.
48. Math Co-requisite Reform Meeting, Citrus College, Glendora, California, USA, September 30, 2019.
49. Western Regional Meeting on Graduate Education, TPSE Math, University of Southern California, California, Los Angeles, USA, September 14-15, 2019.
50. **Colloquium**, Department of Mathematics, Shanghai University, Shanghai, China, August 2, 2019.
51. **Plenary Lecture** (40 mins), the 2019 Conference on Higher Math Education, Yangzhou University, Yangzhou, Jiangsu, China, July 29-August 1, 2019.
52. **Invited talk** (30 mins), the 2019 Workshop on Matrices and Operators (MAO 2019), Chern Institute of Mathematics, Nankai University, Tianjin, China, July 23-27, 2019.
53. **Colloquium**, School of Mathematics and Statistics, Beijing Institute of Technology, Beijing, China, July 23, 2019.
54. **Invited talk** (25 mins), mini-symposium "Matrix Equations and Matrix Inequalities," (MEMI) the 22nd ILAS Conference, Rio de Janeiro, Brazil, July 8-12, 2019.
55. **Invited talk** (30 mins), the 2019 International Workshop on Matrix Inequalities and Matrix Equations (MIME 2019), Guilin University of Electronic Technology, Guilin, Guangxi, China, June 7-10, 2019.
56. **Lecture**, Chongqing University of Science and Technology, Chongqing, China, June 5, 2019.
57. **Colloquium**, Department of Mathematics, Chongqing University, Chongqing, China, June 4, 2019.
58. **Colloquium**, Department of Mathematics and Physics, Chongqing University of Science and Technology, Chongqing, China, May 29, 2019.
59. **Invited talk** (50 mins), Conference on Ordered Structures in Geometry and Analysis, LSU Math Conference in honor of Professor Jimmie Lawson, Louisiana State University, Baton Rouge, Louisiana, USA, April 5-7, 2019.
60. **Contributed talk** (30 mins), Special Session "Geometric and Combinatorial Aspects of Representation Theory" at the Spring AMS Southeastern Sectional Meeting, Auburn University, Auburn, Alabama, USA, March 15-17, 2019.
61. **Seminar Talk** (50 mins), Department of Mathematics and Statistics, Auburn University, Auburn Alabama, USA, March 19, 2019.
62. **Colloquia (2)**, Department of Mathematics, Shanghai University, Shanghai, China, November 19, 2018.
63. **Plenary lecture** (60 mins), Cuarta Escuela de Análisis Funcional y Geometría, Instituto Argentino de Matematica, Buenos Aires, Argentina, October 22-26, 2018.



64. **Seminar talk**, Department of Mathematics and Statistics, Auburn University, Auburn, Alabama, USA, October 9, 2018.
65. **Colloquium**, School of Mathematical Sciences, Heilongjiang University, Harbin, Heilongjiang, China, August 20, 2018.
66. **Keynote lecture**, the 13th International Conference on Matrix Theory and Applications (MTA 2018), Harbin Engineering University, Harbin, Heilongjiang, China, August 17-22, 2018.
67. **Colloquium**, Department of Mathematics and Statistics, Northeast Electric Power University, Jilin City, Jilin, China, August 14, 2018.
68. **Lecture**, College of Science, Northeast Electric Power University, Jilin City, Jilin, China, August 14, 2018.
69. **Colloquium**, School of Mathematics and Statistics, Northeast Normal China University, Changchun, Jilin, China, August 12, 2018.
70. **Colloquium**, School of Mathematics, Jilin University, Changchun, Jilin, China, August 12, 2018.
71. **Invited talk** (25 minutes), mini-symposium “Numerical Range, Numerical Radius and Crouzeix’s Conjecture”, SIAM Annual Meeting, Portland, Oregon, USA, July 9-13, 2018.
72. **Lecture**, Department of Mathematics, East Normal China University, Shanghai, China, June 27, 2018.
73. **Invited talk**, the 7th International Conference on Matrix Analysis and Applications (ICMAA 2018), Shinshu University, Nagano Prefecture, Japan, June 22-25, 2018.
74. **Invited talk**, the 2018 Workshop on Numerical Ranges and Radii (WORNA 2018), Technical University, Munich, Germany, June 13-17, 2018.
75. **Colloquium**, School of Mathematical Sciences, Yangzhou University, Yangzhou, Jiangsu, China, June 12, 2018.
76. **Colloquium**, School of Mathematics and Information Engineering, Taizhou University, Taizhou, Jiangsu, China, June 11, 2018.
77. **Lecture**, School of Mathematics and Information Engineering, Taizhou University, Taizhou, Jiangsu, China, June 11, 2018.
78. **Invited talk**, the 2018 International Workshop on Matrix Inequalities and Matrix Equations (MIME 2018), Shanghai University, Shanghai, China, June 8-10, 2018.
79. **Lecture**, Department of Mathematics, Southeast University, Nanjing, China, June 7, 2018.
80. **Colloquium**, Department of Mathematics, Southeast University, Nanjing, China, June 7, 2018.
81. **Lecture**, School of Mathematical Sciences, Putian University, Putian, Fujin, China, June 5, 2018.
82. **Colloquia (2)**, School of Mathematical Sciences, Huaqiao University, Fujin, China, June 4-5, 2018.
83. **Lecture**, Xiamen University of Technology, Fujin, China, June 4, 2018.
84. **Lecture**, Department of Mathematics, Shanghai University, Shanghai, China, June 1, 2018.
85. **Seminar talk**, Department of Mathematics, University of Georgia, Athens, Georgia, USA, May 15, 2018.
86. **Colloquium**, Department of Mathematics, University of Alabama in Birmingham, Alabama, USA, May 2, 2018.
87. **Invited talk** (30 minutes), Southern Regional Algebra Conference (SRAC 2018), Auburn University in Montgomery, Montgomery, Alabama, USA, April 20-22, 2018.
88. **Colloquium**, University of Chinese Academy of Sciences, Beijing, China, March 15, 2018.
89. **Colloquium**, Key Lab of Mathematics Mechanization, Chinese Academy of Sciences, Beijing, China, March 15, 2018.

90. **Colloquium**, Key Lab of Scientific and Engineering Computing, Chinese Academy of Sciences, Beijing, China, March 14, 2018.
91. **Lecture**, School of Mathematical Sciences, Beijing Normal University, Beijing, China, March 13, 2018.
92. **Colloquium**, School of Mathematical Sciences, Hebei Normal University, Shijiazhuang, Hebei, China, March 12, 2018.
93. **Colloquium**, College of Mathematics and Information Science, Hebei University, Baoding, Hebei, China, March 10, 2018.
94. **Lecture**, School of Mathematics and Statistics, Beijing Institute of Technology, Beijing, China, March 9, 2018.
95. **Colloquium**, School of Mathematics and Statistics, Beijing Institute of Technology, Beijing, China, March 9, 2018.
96. **Seminar talk**, Department of Mathematics, University of Manitoba, Winnipeg, Canada, February 9, 2018.
97. **Colloquium**, School of Mathematics and Physics, Chongqing University of Posts and Communications, Chongqing, China, January 3, 2018.
98. **Lecture**, Chongqing University of Science and Technology, Chongqing, China, January 2, 2018.
99. **Colloquium**, Department of Mathematics, Chongqing University, Chongqing, China, January 2, 2018.
100. **Colloquium**, School of Mathematics and Information Science, Jiangxi Normal University, Nanchang, China, December 28, 2017.
101. **Colloquium**, School of Mathematical Sciences, Guizhou Normal University, Guiyang, China, December 26, 2017.
102. **Colloquium**, School of Mathematics and Statistics, Yunnan University, Kunming, China, December 21, 2017.
103. **Invited talk**, 2017 Korea-China International Conference on Matrix Theory and Application, AORC-IRCTMT Joint Meeting (ICMTA 2017), Sunkyunkwan University, Suwon, South Korea, December 14-17, 2017.
104. **Colloquium**, Department of Mathematics, Korea University, Seoul, South Korea, December 13, 2017.
105. **Lecture Series**, School of Mathematical Sciences, Huaqiao University, Fujin, China, November 20-24, 2017.
106. **Colloquium**, Department of Mathematical Sciences, University of Alabama in Huntsville, Huntsville, Alabama, USA, October 26, 2017.
107. **Colloquium**, Department of Mathematics, Auburn University at Montgomery, Montgomery, Alabama, USA, September 15, 2017.
108. **Colloquium**, Department of Mathematics, Iowa State University, Ames, Iowa, USA, September 5, 2017.
109. **Invited talk** (30 minutes), the special session “Matrix Analysis and Its Applications” in the 3rd Pacific Rim Mathematical Association (PRIMA 2017) Congress, Oaxaca, Mexico, August 14-18, 2017.
110. **Invited talk** (40 minutes), Matrix Equations and Related Topics, Institute of Mathematics of Universidad Nacional Autonoma de Mexico in Mexico City, Mexico, August 11-12, 2017.

111. **Invited mini-symposium talk** (30 minutes), “Linear Algebra and Geometry”, 2017 ILAS Conference, Iowa State University, Ames, USA, July 24-28, 2017.
112. Contributed talk, 6<sup>th</sup> International Conference on Matrix Analysis and Applications (ICMAA), Duy Tan University, Da Nang, Vietnam, June 14-18, 2017.
113. **Invited talk** (30 minutes), the 2017 Workshop on Matrices and Operators, Hunan University, Changsha, China, June 9-12, 2017.
114. **Colloquium**, College of Mathematics and Computer Science, Hunan First Normal University, Changsha, China, June 11, 2017.
115. **Invited talk** (30 minutes), the 2017 International Workshop on Matrix Inequalities and Matrix Equations (MIME 2017), Shanghai University, Shanghai, China, June 6-8, 2017.
116. **Colloquia (2)**, School of Mathematics and Statistics, Linyi University, Linyi, Shangdong, China, June 5, 2017.
117. **Colloquium**, School of Mathematics and Statistics, Qufu Normal University, Qufu, Shangdong, China, June 1, 2017.
118. **Colloquium**, School of Mathematical Sciences, Shanghai Jiao Tong University, Shanghai, China, May 31, 2017.
119. **Invited talk** (30 minutes), the Second Langenhop Lecture and SIU Mathematics Conference-LLMC2017, Southern Illinois University, Carbondale, Illinois, USA, May 15-16, 2017.
120. **Invited talk** (30 minutes), Southern Regional Algebra Conference (SRAC 2017), University of South Alabama, Mobile, USA, March 17-19, 2017.
121. **Linear Algebra Panel Leader**, Big Date Workshop under the NSF project “Infusing Data-Enabled Active Learning in Mathematics and Statistics Courses” (HRD-1436871), Alabama State University, Montgomery, Alabama, USA, November 3, 2016.
122. **Invited talk**, mini-symposium “Matrix Inequalities and Operator Means” the 20th ILAS Conference, Leuven, Belgium, July 11-15, 2016.
123. **Invited talk**, the 2016 Workshop on Matrices and Operators, Jeju National University, Jeju, South Korea, July 3-6, 2016.
124. **Invited talk**, the 13th Workshop on Numerical Ranges and Numerical Radii, Soochow University, Taipei, Taiwan, June 28-30, 2016.
125. **Colloquium**, School of Mathematical Sciences, Hebei Normal University, Hebei, China, June 24, 2016.
126. **Colloquium**, School of Mathematical Sciences, Inner Mongolia University, Hohhot, Inner Mongolia, China, June 21, 2016.
127. **Colloquium**, Department of Mathematics, National University of Mongolia, Ulaanbaatar, Mongolia, June 15, 2016.
128. **Invited talk**, the 2016 International Workshop on Matrix Inequalities and Matrix Equations, Shanghai University, Shanghai, China, June 8-10, 2016.
129. **Invited lectures**, Noyce and Mesip Workshop at BMCC, New York City, New York, USA, June 6-7, 2016.
130. **Lecture series** (May 12, 13, 17, 18, 2016), Department of Mathematics, Cankiri Karatekin University, Cankiri, Turkey, under the Turkish Mevlana Exchange Program with Auburn University, May 9-23, 2016.
131. **Invited talk**, the 2016 Southern Regional Algebra Conference (SRAC), Auburn University, Auburn, Alabama, USA, March 18-20, 2016.

132. **Plenary talk**, Conference on Linear Algebra and Discrete Mathematics, University of Tennessee at Chattanooga (in honor of the retirement of Professor Ron Smith), Chattanooga, Tennessee, USA, March 5-6, 2016.
133. **Invited talk**, AMS-AAAS Special Session on New Developments in Discrete and Intuitive Geometry (Dedicated to the 75th birthday of Wlodzimierz Kuperberg), Spring Southeastern Sectional Meeting, University of Georgia, Athens, Georgia, USA, March 5-6, 2016.
134. **Colloquium**, Department of Mathematics and Statistics, Texas Tech University, Lubbock, Texas, USA, February 4, 2016.
135. **Colloquium**, School of Mathematical Sciences, Putian University, Putian, Fujin, China, January 5, 2016.
136. **Lecture series**, School of Mathematics and Statistics, Minnan Normal University, Zhangzhou, Fujin, China, January 1-4, 2016.
137. **Lecture series**, School of Mathematics and Statistics, Linyi University, Shandong, China, December 25, 2015-January 1, 2016.
138. **Colloquium**, College of Science, Information Science and Technology University, Beijing, China, December 24, 2015.
139. **Colloquium**, School of Mathematical Sciences, Beijing University of Civil Engineering and Architecture, Beijing, China, December 23, 2015.
140. **Invited talk**, Special Session in memory of Bob Thompson at the 5<sup>th</sup> International Conference on Matrix Analysis and Applications (ICMAA), Nova Southeastern University, Ft. Lauderdale, Florida, USA, December 18-20, 2015.
141. **Linear Algebra Panel Leader**, Big Date Workshop under the NSF project “Infusing Data-Enabled Active Learning in Mathematics and Statistics Courses” (HRD-1436871), Alabama State University, Montgomery, Alabama, USA, November 13, 2015.
142. **STEM Ed Seminar talk**, Department of Curriculum & Teaching, College of Education, Auburn University, Auburn, Alabama, USA, September 10, 2015.
143. **Invited talk**, the 2015 Workshop on Matrices and Operators, Shaanxi Normal University, Xi’an, Shaanxi, China, July 19-21, 2015.
144. **Colloquium**, School of Mathematics, Xi’an Jiao Tong University, Xi’an, Shaanxi, China, July 15, 2015.
145. **Colloquium**, Department of Mathematics and Statistics, Lanzhou University, Lanzhou, China, July 10, 2015.
146. **Colloquium**, School of Mathematical Sciences, Taiyuan University of Technology, Taiyuan, China, July 2 (afternoon), 2015.
147. **Colloquium**, College of Science, Taiyuan University of Science and Technology, Taiyuan, China, July 2 (morning), 2015.
148. Graduate student recruitment talk, Department of Mathematical Sciences, University of Science and Technology, Taiyuan, China, July 1, 2015.
149. **Invited talk**, the 2015 International Workshop on Matrix Inequalities and Matrix Equations, Shanghai University, Shanghai, China, June 28-30, 2015.
150. **Colloquium**, School of Mathematical Sciences, Xi’an Jiao Tong-Liverpool University, Suzhou, China, June 26, 2015.
151. **Colloquium**, Department of Computer Systems Technology, New York City College of Technology, New York, USA June 9, 2015.

152. **Invited talks** (two 4-hour presentations), Noyce's Scholars and Teachers (NEST) Project Summer Workshop, New York City College of Technology, New York, USA, June 8-9, 2015.
153. **Colloquium**, Department of Mathematics, University of Kentucky, Lexington, Kentucky, USA, March 26, 2015.
154. **Invited talk** (25 minutes), Southern Regional Algebra Conference (SRAC 2015), University of Lafayette, Louisiana, USA, March 13-15, 2015.
155. Contributed talk (15 minutes), the 65<sup>th</sup> annual meeting of the AACTM (Alabama Association of College Teachers of Mathematics), University of Alabama in Tuscaloosa, Tuscaloosa, Alabama, USA, February 7, 2015.
156. **Invited talk** (25 minutes), Conference on Mathematics and its Applications, Kuwait University, Kuwait, November 14-17, 2014.
157. **Plenary talk** (50 minutes), the 19th ILAS Conference, Sungyunkwan University, Seoul, South Korea, August 6-9, 2014.
158. **Colloquium**, Institute of Mathematical Sciences, University of Malaya, Malaysia, August 1, 2014.
159. **Invited talk** (45 minutes), the 12th Workshop on Numerical Ranges and Numerical Radii, Tsinghua Sanya International Mathematics Forum, Sanya, China, July 28-August 1, 2014.
160. **Invited talk** (30 minutes), the 2014 workshop on Matrices and Operators, Hainan Normal University, Haikou, China, July 24-27, 2014.
161. **Colloquium**, College of Mathematics and Computer Sciences, Guangxi University for Nationalities, Guangxi, China, July 22, 2014.
162. **Invited talk** (30 minutes), the 12th Western Canada Linear Algebra Meeting (WCLAM), University of Regina, Regina, Canada, May 10-11, 2014
163. **Invited talk** (30 minutes), Southern Regional Algebra Conference (SRAC 2014), Auburn University in Montgomery, Montgomery, Alabama, USA, April 25-27, 2014.
164. Contributed talk, Annual Southeastern Section Meeting of MAA, Tennessee Tech University, Cookeville, Tennessee, USA, March 14-15, 2014.
165. Contributed talk, 91<sup>st</sup> Annual Meeting of Alabama Academy of Science, Auburn University, Auburn, Alabama, USA, March 12-14, 2014.
166. **Colloquium**, Department of Mathematics, University of Alabama in Tuscaloosa, Tuscaloosa, Alabama, USA, March 11, 2014.
167. **Colloquium**, Department of Mathematics and Statistics, Georgia State University, Atlanta, USA, February 14, 2014.
168. Contributed talk "Teaching Linear Algebra Effectively", the 64<sup>th</sup> annual meeting of the AACTM (Alabama Association of College Teachers of Mathematics), Auburn University, Auburn, Alabama, USA, February 8, 2014.
169. **Plenary talk** (50 minutes), the 2013 Shanghai International Conference on Matrix Analysis and Applications (SICMAA2013), Shanghai, China, December 27-29, 2013, in honor of the 80<sup>th</sup> birthday of Professor Er-xiong Jiang.
170. **Colloquium**, School of Mathematical Sciences, Yangzhou University, China, December 24, 2013.
171. **Colloquium**, College of Mathematics and Information Science, Jiangxi Normal University, Nanchang, Jiangxi, China, December 23, 2013.
172. Southeast Geometry Seminar (SGS XXIII), Emory University, Atlanta, USA, November 10, 2013.
173. **Colloquium**, School of Mathematical Sciences, University of Science and Technology of China, Hefei, Anhui, China, July 22, 2013.

174. **Invited talk** (30 minutes), 8th Workshop on Matrices and Operators, Beijing Normal University, Beijing, China, July 15-19, 2013.
175. **Colloquium**, Department of Mathematics, Taiyuan University of Science and Technology, Taiyuan, Shanxi, China, July 12, 2013.
176. **Invited talk** (30 minutes), International Workshop of Graphs and Matrices, the North University of China, Taiyuan, Shanxi, July 10-13, 2013.
177. **Plenary talk** (50 minutes), the 4th International Conference on Matrix Analysis and Applications, Selcuk University, Konya, Turkey, July 2-5, 2013.
178. **Colloquium**, Department of Mathematics, Siirt University, Siirt, Turkey, June 28, 2013.
179. **Two invited talks** (30 minutes each), the 18th ILAS, Providence, Rhode Island, USA, June 3-7, 2013.
180. Contributed talk (25 minutes), Southern Regional Algebra Conference, Southeastern Louisiana University in Hammond, Hammond, Louisiana, USA, March 15-17, 2013.
181. 2013 Joint Mathematics Meetings, San Diego, California, USA, January 9-12, 2013.
182. **Colloquium**, Department of Mathematics and Statistics, Auburn University, Auburn, Alabama, USA, November 2, 2012.
183. **Colloquium**, Department of Mathematics, University of Tennessee at Chattanooga, Chattanooga, Tennessee, USA, Oct 26, 2012.
184. **Colloquium**, School of Mathematics, Jilin University, Jilin, China, July 19, 2012.
185. **Invited talk**, the 7th Workshop on Matrices and Operators, Harbin Engineering University, Harbin, Heilongjiang, China, July 13-16, 2012.
186. **Invited talk**, the 11th Workshop on Numerical Ranges and Numerical Radii, National Sun Yat-sen University, Kaohsiung, Taiwan, July 9-12, 2012.
187. **Colloquium**, Department of Mathematics, Shenyang Normal University, Shenyang, Liaoning, China, July 2, 2012.
188. **Lecture series and two colloquia**, School of Mathematical Sciences, Inner Mongolia University, Hohhot, Inner Mongolia, China, June 9-29, 2012.
189. **Three colloquia**, Department of Mathematics, Selcuk University, Turkey, April 13, 19, 27, 2012.
190. Contributed talk, Southern Regional Algebra Conference, Clayton State University, Morrow, Georgia, USA, March 30-April 1, 2012.
191. **Invited talk**, the 6th Workshop on Matrices and Operators, University of Electronic Science and Technology, Chengdu, Sichuan, China, July 8-11, 2011.
192. **Colloquium**, Department of Mathematics, Chongqing University, Chongqing, China, July 4, 2011.
193. **Colloquium**, College of Engineering, Northern New Mexico College, Espanola, New Mexico, USA, May 5, 2011.
194. MAA meeting, University of Alabama in Tuscaloosa, Tuscaloosa, Alabama, USA, March 31-April 2, 2011.
195. Contributed talk, AMS/MAA meeting in New Orleans, Louisiana, USA, January 6-9, 2011.
196. **Colloquium**, School of Mathematical Sciences, Xiamen University, Xiamen, Fujian, China, December 17, 2010.
197. **Colloquium**, College of Mathematics and Computer Sciences, Guangxi University for Nationalities, Guangxi, China, December 14, 2010.
198. **Colloquium**, Department of Applied Mathematics, Polytechnic University of Hong Kong, Hong Kong, December 9, 2010.

199. **Colloquium**, School of Mathematical Sciences, Inner Mongolia University, Hohhot, Inner Mongolia, China, July 16, 2010.
200. **Invited talk**, the 5th Workshop on Matrices and Operators, Taiyuan University of Technology and Sciences, Taiyuan, Shanxi, China, July 12-15, 2010.
201. **Colloquium**, Department of Mathematics, National University of Defense, Changsha, Hunan, China, July 5, 2010.
202. **Invited talk**, the 10th Workshop on Numerical Ranges and Numerical Radii, Instytut Matematyki, Uniwersytet Jagielloński, Krakow, Poland, June 27-29, 2010.
203. **Invited talk**, the 16th ILAS Conference at Pisa, Italy, June 21-25, 2010.
204. Contributed talk in Southern Regional Algebra Conference, Auburn University at Montgomery, Montgomery, Alabama, March 26-28, 2010.
205. **Colloquium**, Department of Mathematics, University of Alabama, Tuscaloosa, Alabama, USA, February 19, 2010.
206. **Colloquium**, Department of Mathematics, Taiyuan University of Technology and Sciences, Taiyuan, Shanxi, China, July 15, 2009.
207. **Invited talk**, the 3rd International Workshop on Matrix Analysis and Applications, Zhejiang Forestry University, Hangzhou/Lin'an, Zhejiang, China, July 9-13, 2009.
208. **Invited talk**, 4th Workshop on Matrices and Operators, National Sun Yat-sen University, Kaohsiung, Taiwan, July 3-4, 2009.
209. **Colloquium**, Department of Mathematics, Tamkang University, Taipei, Taiwan, July 2, 2009.
210. **Colloquium**, Department of Mathematics, Soochow University, Taipei, Taiwan, July 1, 2009.
211. **Colloquium**, Department of Mathematics, Georgia Institute of Technology, Atlanta, Georgia, USA, April 2009.
212. Honors Lyceum presentation about Hong Kong, Honors College, Auburn University, Alabama, USA, March 2, 2009.
213. **Invited talk**, the 19th International Workshop on Operator Theory and its Applications (IWOTA 2008), College of William and Mary, Williamsburg, Virginia, USA, July 22-26, 2008.
214. **Invited talk**, the 9th Workshop on Numerical Ranges and Numerical Radii, College of William and Mary, Williamsburg, Virginia, USA, July 19-21, 2008.
215. **Invited talk**, 3th Workshop on Matrices and Operators, University of Hong Kong, Hong Kong, May 24, 2008.
216. **Colloquium**, Department of Mathematics, Northwest University, Xi'an, Shaanxi, China, May 14, 2008.
217. **Colloquium**, Department of Mathematics, Xi'an Jiao Tong University, Xi'an, Shaanxi, China, May 13, 2008.
218. **Colloquium**, Department of Mathematics, Xiangtan University, Xiangtan, Hunan, China, May 11, 2008.
219. **Colloquium**, School of Mathematics and Econometric, Hunan University, Changsha, Hunan, China, May 9, 2008.
220. **Colloquium**, School of Mathematics, Hunan Normal University, Changsha, Hunan, China, May 8, 2008.
221. **Colloquium**, Department of Mathematics, National University of Defense Technology, Changsha, Hunan, China, May 7, 2008.
222. **Colloquium**, Department of Mathematics, Shenzhen University, Shenzhen, China, May 6, 2008.

223. **Colloquium**, Department of Mathematics, University of Hong Kong, Hong Kong, May 2, 2008.
224. **Colloquium**, Department of Mathematics, University of Macau, Macau, April 16, 2007.
225. **Invited talk**, 1st Workshop on Matrices and Operators, University of Hong Kong, Hong Kong, April 13-14, 2007.
226. **Colloquium**, School of Mathematical Sciences, Hebei Normal University, Shijiazhuang, Hebei, China, April 11, 2007.
227. **Colloquium**, Department of Mathematics, East China Normal University, Shanghai, China, April 9, 2007.
228. **Colloquium**, Department of Mathematics, College of Science, Zhejiang Forestry University, Lin'an, China, April 4-5, 2007.
229. **Colloquium**, Department of Mathematics, Sun Yat-sen University, Guangzhou, China, April 3, 2007.
230. Contributed talk in Robert C. Thompson Matrix Meeting, Auburn University, Auburn, Alabama, USA, March 24, 2007.
231. **Colloquium**, Department of Mathematics, Auburn University at Montgomery, Montgomery, Alabama, USA, March 9, 2007.
232. **Colloquium and Seminar talk**, Department of Mathematics and Statistics, University of South Alabama, Mobile, Alabama, USA, February 15-16, 2007.
233. **Invited talk**, 1st Workshop on Matrix Analysis and Applications, Nova Southeastern University, Fort Lauderdale, Florida, USA, December 15-17, 2006.
234. **Colloquium**, Department of Mathematics, Shanghai University, Shanghai, China, June 2006.
235. **Colloquium**, Department of Mathematics, China University of Mining Technology, Xuzhou, China, June 2006.
236. **Colloquium**, Department of Mathematics, University of Hong Kong, Hong Kong, May 2006.
237. **Colloquium**, Department of Mathematics, Hong Kong University of Science and Technology, Hong Kong, May 2006.
238. Attended MAA/SIAM meeting in Auburn University, Auburn, Alabama, USA, April 2006.
239. **Colloquium**, Department of Mathematics, College of William and Mary, Williamsburg, Virginia, USA, March 2006.
240. **Invited talk**, Robert C. Thompson Matrix Conference, San Jose State University, San Jose, California, USA, November 2004.
241. Contributed talk, 2nd Workshop on Matrix Analysis and Applications, Nova Southeastern University, Fort Lauderdale, Florida, USA, December 2003.
242. **Colloquium**, Department of Mathematics, Georgia State University, Atlanta, Georgia, USA, March 2003.
243. Contributed talk, the 10th ILAS conference: "Challenges in Matrix Theory" in Auburn University, Alabama, USA, July 2002.
244. Contributed talk, the 6th Workshop on Numerical Ranges and Radius, Auburn University, Alabama, USA, June 2002.
245. Contributed talk, AMS Regional Mathematical Conference in Georgia Institute of Technology, Georgia, USA, 2002.
246. **Colloquium**, Department of Mathematics, Tamkang University, Taiwan, January 2000.
247. **Colloquium**, Department of Mathematics, National Chiao Tung University, Taiwan, January 2000.
248. **Colloquium**, Academia Sinica, Taipei, Taiwan, January 2000.



249. Contributed talk, Geometric and Combinatorial Methods in the Hermitian Sum Spectral Problem Workshop, Coimbra, Centro Internacional de Matematica, Centro de Matematica da Universidade de Coimbra, Coimbra, Portugal, July 1999.
250. Contributed talk and Mini-symposium in the 8<sup>th</sup> ILAS conference, Universitat Politecnica de Catalunya, Barcelona, Spain, July 1999.
251. **Colloquium**, Department of Mathematics, North Carolina State University, North Carolina, USA, April 1999.
252. **Colloquium**, Department of Applied Mathematics, University of Alabama in Huntsville, Huntsville, Alabama, USA, April 1999.
253. **Invited talk**, the 4th Workshop on Numerical Ranges and Numerical Radii, University of Wisconsin, Madison, Wisconsin, USA, June 1998.
254. Contributed talk, the 7th ILAS conference, University of Wisconsin, Madison, Wisconsin, USA, June 1998.
255. **Colloquium**, Department of Mathematics, University of Hong Kong, Hong Kong, May 1998.
256. **Colloquium**, Department of Statistics, University of Hong Kong, Hong Kong, May 1998.
257. **Invited talk**, Matrix Theory Workshop, in honor of the retirement of Professor Au-Yeung, University of Hong Kong, Hong Kong, May 1998.
258. **Colloquium**, Department of Mathematics and Statistics, Georgia State University, Atlanta, Georgia, USA, May 1998.
259. **Colloquium**, Department of Mathematics, Sun Yat-sen University, Guangzhou, China, January 1997.
260. **Colloquium**, Department of Mathematics, South China Normal University, Guangzhou, China, January 1997.
261. **Colloquium**, Department of Mathematics, University of Hong Kong, Hong Kong, January 1997.
262. **Colloquium**, Department of Mathematics, University of Hong Kong, Hong Kong, December 1996.
263. **Invited talk**, AMS South-East regional conference in at Chattanooga, Tennessee, USA, October 1996.
264. Contributed talk, the 3rd Matrix Conference in Hong Kong, University of Hong Kong, Hong Kong, 1995.
265. Contributed talk, the 5th ILAS conference, Georgia State University, Atlanta, Georgia, USA, 1995.
266. Contributed talk, "My Experience of Teaching Linear Algebra using MATLAB", Faculty Development Consortium Instructional Technology Conference, Auburn University, Alabama, USA, 1995.
267. **Colloquium**, Sinica Academica, Taipei, Taiwan, March 1994.
268. **Colloquium**, Department of Mathematics, Soochow University, Taipei, Taiwan, March 16, 1994.
269. **Colloquium**, Department of Mathematics, Tamkang University, Taipei, Taiwan, March 1994.
270. **Colloquium**, Department of Mathematics, Soochow University, Taipei, Taiwan, March 11, 1994.
271. **Invited talk**, 2nd Matrix Theory Mini-Conference, University of Hong Kong, Hong Kong December 1993.
272. **Colloquium**, Department of Mathematics, University of Hong Kong, Hong Kong, September 1993.
273. **Colloquium**, Department of Mathematics, College of William and Mary, Williamsburg, Virginia, USA, August 1993.
274. **Invited talk**, 1st South-East Matrix Theory Conference, University of Tennessee at Chattanooga, Tennessee, USA, 1993.

275. **Colloquium**, Department of Mathematics, University of Tennessee at Chattanooga, Tennessee, USA, 1993.
276. Contributed talk, the 3<sup>rd</sup> ILAS international meeting in Pensacola, Florida, USA, March 17-20, 1993.
277. **Colloquium**, Department of Mathematics, City University of Hong Kong, Hong Kong, 1992.
278. **Colloquium**, Department of Mathematics, Sun Yat-sen University, Guangzhou, China, 1992.
279. **Invited talk**, the 1<sup>st</sup> Workshop on Numerical Ranges and Numerical Radii, Department of Mathematics, College of William and Mary, Williamsburg, Virginia, USA, 1992.
280. **Invited talk**, SIAM Conference on Applied Linear Algebra, Minneapolis, Minnesota, USA, 1991.
281. Contributed talk, NSF/CBMS Regional Research Conference on Qualitative and Structured Matrix Theory, Atlanta, Georgia, USA, August 1991.
282. **Colloquium**, Department of Mathematics, College of William and Mary, Williamsburg, Virginia, USA, August 1990.
283. Contributed talk, the 1<sup>st</sup> International Conference and Workshop on Optimal Designs, Neuchatel, Switzerland, July 1988.
284. Contributed talk, Applications of Matrix Theory, Bradford University, England, July 1988.
285. **Colloquium**, Department of Algebra, Combinatorics and Analysis, Auburn University, Alabama, April 1988.
286. **Invited talk**, the 1st Conference on Matrix Theory, Sun Yat-sen University, Guangzhou, China, 1986.

**Professional Development Workshops and others:**

1. 2019 Faculty Academic Leadership Program (FALP), Spring 2019 (weekly training).
2. 2018 Academic Faculty Annual Evaluation Workshop, University of Nevada, Reno, December 14, 2018.
3. Basic Web Accessibility Training, University of Nevada, Reno, November 8, 2018.
4. Implicit Bias and Search Chair/Committee Training, University of Nevada, Reno, September 19, 2018.
5. Executive Board Meeting of Alabama Council of Teachers of Mathematics, McCalla, Alabama, USA, January 20, 2018.
6. Pearson Pre-Calculus Forum, Nashville, Tennessee, USA, October 27-28, 2017.
7. NSF Project Meeting on the Logan Project (to help students who are blind or have visual impairments learn algebra and other advanced mathematics), September 7, 2017.
8. Fair Play Workshop, Auburn University, August 28, 2017.
9. Workshop on Working with High Conflict People, Auburn University, July 11, 2017.
10. Council of Colleges of Arts and Sciences (CCAS) Seminar for Department Chairs, Savannah, Georgia, USA, February 2-4, 2017.
11. Executive Board meeting of Alabama Council of Teachers of Mathematics, Birmingham, Alabama, USA, January 21, 2017.
12. AMS Department Chairs Workshop, Atlanta, Georgia, USA, January 3, 2017.
13. Alabama Council of Teachers of Mathematics (ACTM) Executive Board Meeting, Wetumpka, Alabama, USA, January 24, 2015.
14. AMS Department Chairs Workshop, San Antonio, Texas, USA, January 9, 2015.
15. Workshop on Writing a Competitive Proposal to NSF-EHR grant (January 13, 2014); Department Chairs Workshop (January 14, 2014), Focus Group for Directors of Graduate Studies (January 15, 2014) at the Joint Mathematics Meetings (AMS/MAA), Baltimore, USA.

16. AALHE (Association of the Assessment of Learning in Higher Education), 1st Conference: The Practice of Assessment, University of Kentucky, Lexington, Kentucky, USA, June 6-7, 2011.
17. Workshop for SECAC Academic Leadership Development Program, University of Alabama, Tuscaloosa, Alabama, USA, February 17-19, 2010.
18. Panel presentation to Program Evaluation class (ERMA 8100) on AU Academic Program Review, organized by Dr. Dave Shannon, Auburn University, Alabama, USA, June 22, 2009.
19. Diversity Research Initiative Conference: Understanding Differences that Matter, Auburn University, October 29-30, 2008.
20. Frontiers in Nano-science and Nanotechnology Symposium, Auburn University, May 2, 2006.

**Motivational Lectures:**

1. The First 45th Anniversary Outstanding Alumni Lecture, Lung Cheung Government School, July 7, 2015.
2. Invited Lecture, Lung Cheung Government School, July 20, 2009.

**Special Educational visit:**

1. US Navy's Nuclear Educator Orientation Visit at the San Diego Naval Submarine Base Point Loma, August 20-24, 2014. The trip was highlighted by a day embark onboard a nuclear-powered Los Angeles Class Submarine. The purpose of the trip was to educate college educators and administrators to help Navy recruitment of college students.
2. Visited Draper Correction Facility in Elmore, Alabama, and observed the math instruction conducted by an instructor of the Department of Mathematics and Statistics, Auburn University. This is part of the Alabama Prison Program of Auburn University.

**Host of Visiting Scholars:**

1. Caiqin Song, Jinan University, visiting scholar at UNR with full support from Jinan University (October 1, 2019 - September 30, 2020).
2. Xiaodong Wang, Shandong Normal University, visiting scholar at UNR with full support from Shandong Government (October 1, 2019 - September 30, 2020).
3. Xiaohui Fu, Hainan Normal University, visiting scholar at UNR with full support from the China Scholarship Council (September 1, 2019 - August 31, 2020).
4. Chaoqian Li, School of Mathematics and Statistics, Yunnan University, China, visiting scholar at UNR with full support from the China Scholarship Council (December 30, 2018 - October 29, 2019).
5. Shengxiang Wang, School of Mathematics and Finance, Chuzhou University, China, visiting scholar at UNR with full support from the Overseas Training Program of Anhui Province, China (December 30, 2018 - June 17, 2019).
6. Xiaoji Liu, School of Science, Guangxi University for Nationalities, China, visiting scholar at Auburn University with full support from Guangxi Scholarship Fund of Guangxi Education Department, China (February 22, 2018 - February 21, 2019).
7. Zhijuan Meng, School of Applied Science, Taiyuan University of Science & Technology, China, visiting scholar at Auburn University with full support from Taiyuan University of Science & Technology (March 1, 2017 - February 28, 2018).
8. Daochang Zhang, College of Sciences, Northeast Dianli University, Jilin City, China, visiting scholar at Auburn University with full support from the China Scholarship Council (December 20, 2016 - December 19, 2017).

9. Pingping Zhang, School of Science, Chongqing University of Posts & Telecommunications, Chongqing, China, visiting scholar at Auburn University with full support from the China Scholarship Council (September 1, 2016 - September 1, 2017).
10. K.C. Sivakumar, Department of Mathematics, Indian Institute of Technology Madras, India, visiting scholar at Auburn University (November 1, 2015 – November 13, 2015).
11. Dongxiu Xie, College of Mathematics and Econometrics, Hunan University, Changsha, Hunan and School of Science, Beijing Information Science & Technology University, Beijing, China, visiting scholar at Auburn University with support from her research grant (July 25, 2015 -August 30, 2015).
12. Deyu Wu, School of Mathematical Sciences, Inner Mongolia University, Hohhot, Inner Mongolia, China, visiting scholar at Auburn University with full support from the China Scholarship Council (January 1, 2015 - December 31, 2015).
13. Xuexia Zhang, School of Applied Science, Taiyuan University of Science & Technology, Taiyuan, China, visiting scholar at Auburn University with full support from Taiyuan University of Science & Technology (October 1, 2014 - March 31, 2015).
14. Binxin Yang, School of Applied Science, Taiyuan University of Science & Technology, China, visiting scholar at Auburn University with full support from Taiyuan University of Science & Technology (August 20, 2014 - February 20, 2015).
15. Hanyu Li, College of Mathematics and Statistics, Chongqing University, Chongqing, China, visiting scholar at Auburn University with full support from the China Scholarship Council (August 20, 2014 - August 19, 2015).
16. Jicheng Tao, China Jiliang University, Hangzhou, China, visiting scholar at Auburn University with full support from China Jiliang University (June 20, 2014 - September 20, 2014).
17. Liping Wang, School of Sciences, Beijing University of Civil Engineering & Architecture, Beijing, China, visiting scholar at Auburn University with full support from Beijing University of Civil Engineering & Architecture (March 1, 2014 - August 31, 2014).
18. Yi Wu, College of Mathematics and Physics, Chongqing University of Science & Technology, Chongqing, China, visiting scholar at Auburn University with full support from Chongqing University of Science & Technology (August 1, 2013 - May 15, 2014).
19. Durmus Bozkurt (hosted jointly with Erkan Nane), Department of Mathematics, Selcuk University, Turkey, visiting scholar at Auburn University with full support from Selcuk University (Summer 2011).
20. In-Sook Ma, Division of Mathematics & Statistical Informatics, National Chonbuk University, S. Korea, visiting scholar at Auburn University with full support from National Chonbuk University (Fall 1993 - Spring 1994).

**Mentor:**

1. Pan Shun Lau, Ph.D., University of Hong Kong; Postdoc, Hong Kong Polytechnic University; Postdoc at UNR (January 1, 2019 - June 30, 2021).
2. Mehmet Gumus, Ph.D., Southern Illinois University, USA, Visiting Assistant Professor at Auburn University (August 15, 2017 - May 15, 2019).
3. Xavier Martínez-Rivera, Ph.D., Iowa State University, USA, Visiting Assistant Professor at Auburn University (August 15, 2017 - May 15, 2019).
4. Samir Raouafi, Ph.D., Laval University, Canada; Postdoc, University of Regina, Canada, Visiting Assistant Professor at Auburn University (August 15, 2017 - May 15, 2019).

5. Reimbay Reimbayev, Ph.D., Georgia State University, USA, Visiting Assistant Professor at Auburn University (August 15, 2017 - May 15, 2019).
6. Wei Gao, Ph.D., Georgia State University, USA, Visiting Assistant Professor at Auburn University (August 16, 2016 - May 15, 2019).
7. Zhuoheng He, Ph.D., Shanghai University, China, Visiting Assistant Professor at Auburn University (August 16, 2016 - May 15, 2018).
8. Kijti Rodtes, Department of Mathematics, Naresuan University, Thailand, Visiting Assistant Professor at Auburn University (August 15, 2016 - May 15, 2017).
9. Trung Hoa Dinh, Department of Fundamental Sciences, Ho Chi Minh City University of Food Industry, Vietnam, Visiting Assistant Professor at Auburn University (August 16, 2015 - May 15, 2017).
10. Ming-Cheng Tsai, Ph.D. National Chiao-Tung, Taiwan; Postdoc, National Sun Yat-sen University, Taiwan, Visiting Assistant Professor at Auburn University (January 1, 2015 - May 15, 2016).
11. Wai-Shun Cheung, Ph.D., University of Hong Kong, Instructor at Auburn University, (August 16, 2007 - May 15, 2008).
12. Raymond Nung-Sing Sze, Ph.D., University of Hong Kong, Instructor at Auburn University (January 1, 2016 - May 15, 2006).
13. Marek Niezgodna, Department of Applied Mathematics and Computer Science, University of Life Sciences in Lublin, Poland, Visiting Associate Professor at Auburn University (Fall 2001 - Spring 2002).

**Foreign Supervisor of Visiting Graduate Students:**

1. Tao Li, Department of Mathematics, Shanghai University, China, visiting Ph.D. student at UNR with full support from the China Scholarship Council (October 1, 2019 - September 30, 2020). I served as his foreign Ph.D. supervisor under the program.
2. Suhua Li, School of Mathematics and Statistics, Yunnan University, China, visiting Ph.D. student at UNR with full support from the China Scholarship Council (March 1, 2019 - December 1, 2019). I served as her foreign Ph.D. supervisor under the program.
3. Ruju Zhao, School of Mathematical Science, Yangzhou University, China, visiting Ph.D. student at UNR with full support from the China NSF grants and the School of Mathematical Science at Yangzhou University (March 1, 2019 - March 1, 2020). I served as her foreign Ph.D. supervisor under the program.
4. Zhenhua Lyu, Department of Mathematics, Hunan University, China, visiting Ph.D. student at Auburn University with full support from the China Scholarship Council (January 5, 2018 - January 5, 2019). I served as his foreign Ph.D. supervisor under the program.
5. Jianheng Chen, School of Mathematics and Computational Science, Guilin University of Electronic Technology, China, visiting M.S. student at Auburn University with full support of the China Scholarship Council (September 1, 2017 - February 28, 2018). I served as his foreign M.S. supervisor under the program.
6. An-Bao Xu, College of Mathematics and Econometrics, Hunan University, China, visiting Ph.D. student at Auburn University with full support from the China Scholarship Council (September 1, 2014 - August 31, 2016). I served as his foreign Ph.D. supervisor under the program.
7. Ahmet Oteles, Department of Mathematics, Dicle University, Diyarbakir, Turkey, visiting M.S. student at Auburn University with full support from Dicle University (May 16, 2014 - September 15,

2014).