

**PERSONAL INFORMATION**

Name: Chi-Kwong Li  
Office address: Jones 128, Department of Mathematics,  
The College of William & Mary, Williamsburg, VA 23187-8795  
Phone: (757) 221-2042 <http://cklix.people.wm.edu>  
E-mail: [ckli@math.wm.edu](mailto:ckli@math.wm.edu) / [math.ckli@gmail.com](mailto:math.ckli@gmail.com)

Position: Ferguson Professor, Mathematics, W&M;  
Affiliate member, Institute for Quantum Computing, University of Waterloo.

**EDUCATION**

B. A. (1982) and Ph.D. (1986), University of Hong Kong.

**ACADEMIC POSITIONS**

The College of William and Mary:

Ferguson Professor, August 2000–Present

(On leave for the academic year 2004–05, fall 2010, spring 2012,  
spring 2014; 2017–18; also on leave supported by the Fulbright  
Fellowship for the spring and fall of 2011.)

Interim Chair of the mathematics department, 2020–2021.

Chair of the mathematics department, 2002–2007.

Professor, August 1996–July 2000

(On leave for the academic year 1998–99)

Associate Professor, August 1991 – July 1996

(On leave for the academic year 1992–93)

Assistant Professor, August 1988 – July 1991

(On leave for the Spring of 1991)

Institute for Quantum Computing, University of Waterloo.

Affiliate member, May 2014 – present.

Visiting fellow, March–April; 2014, Sept.–Oct., 2017; April–May, 2018.

Shanghai University:

Honorary Professor, June 2010 – Nov. 15 2019; Co-Director, International

Research Center for Tensor and Matrix Theory, June 2016 – Nov. 15 2019.

Sungkyunkwan University in South Korea.

Scientific Advisory Board member, the "Applied Algebra and Optimization  
Research Center (AORC)", July, 2016 – present.

University of Hong Kong:

Honorary Professor, June, 2002 – August, 2017.

The Hong Kong Polytechnic University, Hong Kong:

Senior research fellow, January – February, 2014.

The Academia Sinica (Taiwan):

Visiting fellow, December, 2011; May, 2018.

The National Sun Yat-sen University (Taiwan):

Visiting fellow, June 2016, February and June, 2018.

Taiyuan University of Technology:

Honorary Professor, June 2009 – December 2013.

Heilongjiang University:

Honorary Professor, September 2004 - June 2007.

University of Toronto:

Visiting Professor, August 1998 - July 1999.

Visiting Associate Professor, August 1992 - May 1993.

Johns Hopkins University:

Visiting Assist. Professor, Spring of 1991.

University of Wisconsin - Madison:

Van Vleck Assistant Professor, August 1986 - July 1988

## EDITORIAL POSITIONS AND OFFICES IN PROFESSIONAL SOCIETY

Editorial positions:

- Linear Algebra and Its Applications,  
Associate/senior editor: Jan. 1996 - present.
- Involve - a Journal of Mathematics, January 2008 - present.  
Member of the editorial board.
- Linear and Multilinear Algebra,  
Editor-in-chief: May 2006 - Dec. 2022.  
Associate editor: March 2001 - April 2006,  
Editorial board member: Sept. 1993 - March 2001.
- Operators and Matrices,  
Founding Editor. Editor-in-chief: May 2009 - December 2020.
- IMAGE (Newsletter of International Linear Algebra Society),  
Senior associate editor: Sept. 98 - July, 2007,  
Contributing editor: Sept. 95 - August, 98.
- Journal of Inequalities in Pure and Applied Mathematics,  
Editorial board member: Sept. 99 - July, 2010.

Offices in the International Linear Algebra Society:

- Board of directors, Mar. 1995-Feb. 1997; Mar. 2013 - Feb.15, Mar. 2023-Feb 26.
- Journal Committee (current), and May, 1999 - Feb. 2005 (chair).
- Advisory Committee, 1994-95, 1998-2002; 2016-2020 (chair).
- Nomination committee, 1993-94, 1997-98 (chair), 2000-01, 2017-18 (chair).
- Vice president, Feb. 2007-Feb. 2013.

## HONORS, PRIZES, AND AWARDS

2021 USA Fulbright Scholar awardee.

(Unable to accept due to lacking support from W&M to take leave in 2021-22.)

2015 JMAA Ames Awards (for the best 2015 research paper in JMAA).

2014 Shanghai City Oversea Renowned professor.

2011 USA Fulbright Scholar

2010 Shanxi 100 Talent Program

2009 Plumeri Award for Faculty Excellence (William & Mary)

2008 Simon Teaching Award (William & Mary)

2004 Virginia Outstanding Faculty Award

2003 PBK Society Teaching Award

## COURSES TAUGHT

Brief calculus with applications, calculus, multi-variable calculus, foundation of higher mathematics, linear algebra, elementary analysis, intermediate analysis, abstract algebra I & II, differential equations, advanced linear algebra, applied combinatorics, number theory, geometry, complex analysis, game theory, numerical analysis, quantum computing, topics in computational mathematics, mathematics in daily life; matrix analysis and applications (graduate level, at Johns Hopkins University), topics in linear algebra (graduate level, at UW-Madison). Freshmen seminars on "Teaching, learning, and research in mathematics", "Applications of mathematics", "Mathematics in daily life". Senior seminars on "Quantum Computing", "Linear Algebra and its Applications", "Coding and Cryptology", "Seminars for mathematics teachers", "Mathematical Connections".

## POST-DOCTORAL FELLOW, GRADUATE AND UNDERGRADUATE ADVISING

### Ph.D. Students:

- 2004: Tom Milligan, William & Mary.
- 2005: Nung-Sing Sze, University of Hong Kong.  
(joint supervision with Dr. Jor-Ting Chang.)
- 2014: David Guo, National Sun Yet-san University, Taiwan.  
(joint supervision with Professor Ngai-Ching Wong.)
- 2016: Diane Pelejo, William & Mary.

### Undergraduate Honors projects:

- 1994: J. Karro (High Honors),  
A-L. Klaus (High Honors),
- 1997: I. Nelson (Highest Honors),  
C. Pohanka (Honors),
- 1999: B. Arkin (Highest Honors) [Joint with W. Bynum],
- 2003: H. Chiang (Highest Honors),  
F. Curtis (Highest Honors) [Joint with R. Kincaid].
- 2008: T. Crowder (Highest Honors).
- 2009: S. Clark (Highest Honors), J. Mahle (High Honors).
- 2010: A. Herman, A. Wilcox [joint with T. Dey],  
H.L. Williams [joint with G. Yu].

### Undergraduate research projects including NSF REU / CSUMS / EXTREEMS-QED:

- 1990: S.Chang, C.Heckman, (3 projects)
- 1992: P.Mehta, (3 projects)
- 1993: C.Hamilton-Jester, A-L. Klaus, W.Whitney, (3 projects)
- 1996 J. Lin [co-advised with L. Rodman] (1 project)  
T.Coleman, T.Travison  
[co-advised with M. Lundquist] (1 project)
- 2000: H.Chiang, W.Funk, (2 projects)
- 2002: F.Curtis, D.Pragel [Co-advised with J. Drew] (1 project)  
O.Shenker, K.Spurrier, (1 project)
- 2003: M.Alwill, C.Maher. (2 projects)  
E. Bellenot [Joint with S. Schreiber] (1 project)
- 2005: C. South (1 project)

2007: S. Clark, A. Rastogi (2 projects)  
 2008: T. Crowder, J. Mahle, D. Yang, (3 projects)  
 2009: A. Herman, A. Wilcox, (2 projects)  
       H.L. Williams [Joint with G. Yu] (1 project)  
 2010: V. Forstall, V. Yannello, (2 projects)  
       E. Cole [Joint with G. Yu] (1 project)  
 2011: C. Albert, J. Soosiah [Joint with G. Yu] (2 projects)  
 2012: R. Roberts (1 project)  
 2013: T. Morrison, R. Liu, J. Bieron (2 projects)  
 2014: E. Berry, D. Katsaros (3 projects)  
 2015: G. Taylor.  
 2016: C. Hambric.  
 2017: G. Tauscheck, Y. Liu (both co-advised with J. Shi).  
       E. Chia, Y. Cheng, J. Monroe (both co-advised with with G. Yu).  
 2019: O. Ding, C. Li, Y. Zhao, S. Stanish.  
 2020: S. Wang, C. Li, S. Stanish.  
 2021: S. Wang, C. Li, S. Stanish, R. Leventhal.  
 2022: C. Li, S. Stanish, E. Lu, M. Nelkin, N. Wang.  
 2023: K. Wu, S. Wang, Z. Zhang.  
 Wilson interdisciplinary undergraduate research project:  
   1996: S. Nataraj. (Mathematics and Economics)

## HOST OF LONG TERM VISITING SCHOLARS

- Jianlian Cui, Tsinghua University, China, Aug. 2009-Aug. 2010.
- Chunyuan Deng, South China Normal University, Aug. 2012-Aug. 2013.
- Xiaoyan Yin, Xidian University, China. Aug. 2012-Aug. 2013.
- Junhua He, University Electronic Science and Technology, China. Jan. 2013-Jan. 2014.
- Runling An, Taiyuan University of Science and Technology, China. Feb. 2013-Feb. 2014.
- Xuefeng Wang, Ocean University of China, Feb. 2013-Feb. 2014.
- Hou-Biao Li, University of Electronic Science and Technology, China. Feb. 2013-Feb. 2014.
- Shuqian Shen, China University of Petroleum, China. Oct. 2013-Oct. 2014.
- Xuefeng Duan, Guilin University of Science and Technology, China. Feb. 2014-Feb. 2015.
- Kuo-Zhong Wang, National Chiao Tung University, Taiwan, Feb. 2015-Feb. 2016.
- Yue Liu, Fuzhou University, China. Sept. 2015-Sept. 2016.
- Weiyan Yu, Hainan Normal University, China, March, 2016-March, 2017.
- Ling Zhang, Chongqing Jiaotong University, China. Aug. 2016-Aug. 2017.
- Chao Ma, Shanghai Maritime University, China, Aug. 2016-Aug. 2017.
- Hongmei Yao, Harbin Engineering University, China, Aug. 2018-Aug. 2019.
- Haifeng Li, Harbin Engineering University, China, Sept. 2018-Sept. 2019.
- Yangping Jing, Hangzhou Dianzi University, August 21, 2019 - August 20, 2020.
- Chengyang Zhang, Shaanxi Normal University, Sept. 7, 2019 - Sept. 6, 2019.

## RESEARCH

### PAPERS, BOOKS, MONOGRAPHS, REVIEW.

Current list of publications is available at <http://cklix.peoplewm.edu/pub.html/>

### RESEARCH GRANT

#### External grants.

- USA Simons Foundation, 2015-2020, 2021-2025.
  - \* Collaboration Grants for Mathematicians, 2015-2020, 2021-2025.
- Slovenian Research Agency
  - \* Bilateral collaboration, 2022-2025.
  - \* Bilateral collaboration, 2014-2016.
  - \* Bilateral collaboration, joint with Yiu-Tung Poon, 2011-2013.
  - \* Bilateral collaboration, joint with Leiba Rodman, 2006-2009.
- USA National Science Foundation
  - \* Collaborative research grants (with Yiu-Tung Poon, Iowa State University):  
2009-2010, 2010-2014.
  - \* EXTREEMS-QED: Computational and Statistical theory and techniques in the study of large data sets (an undergraduate research grant with a group of Mathematics faculty), 2013-2018.
  - \* CSUMS: Theory, techniques, and research in computational mathematics (an undergraduate research grant with a group of W&M AS, CS, Mathematics faculty), 2007-2012.
  - \* Research grants as the only PI: 1989-91, 1991-93, 2006-09;
  - \* Joint research grants with Roy Mathias, 1997-2000, 2000-05;
  - \* Post-doctoral fellow at University of Wisconsin: 1987-1989.
  - \* REU Programs at William and Mary (Senior Personnel),  
1990, 1992, 1993, 1996, 2003 (Supervisor of 9 students.)
- 2011 Fulbright Fellow
- National Natural Science Foundation of China, 2015-18, 2020-2023.
- Shanghai City, Oversea Renowned Professor, 2014, 2015.
- Shanxi 100 talent program (2010 awardee), 2010-2013.
- Key Disciplines of Shanghai Municipality (S30104), 2010-2012.
- Hong Kong Research Grants Council
  - \* Joint research grant with Nung-Sing Sze, 2010-2013.
  - \* Joint research grant with Jor-Ting Chan, 2003-05, 2005-2008.
  - \* Joint research grant with Tuen-Wai Ng, 2005-2008.
- American Mathematical Society -Fan's Exchange Program
  - Joint grant with Junping Shi, 2003-04.
- NATO
  - \* Visiting Scholar Grant, 1996-1997.
  - \* Collaborative Research Grant (Project co-ordinator), 1993-95, 1995-97.

#### Internal grants of William and Mary.

- QEP/Mellon fellows (joint with D. Lutzer).
  - to conduct a course on Introduction to Quantum Computing
  - and involve the Mellon fellows as assistance in the Spring of 2010.
- QEP/Mellon fellows (joint with S. Day).

- supporting two students to do research in computational mathematics and mathematical education in the Fall of 2008.
- Mellon teaching fellows supporting two students to do research in mathematics and mathematical educations in the Spring of 2008.
- Freeman Fellowship supporting the visit of Freeman Fellow - Professor Jinchuan Hou to visit the mathematics department in the Fall of 2005.
- Faculty Research Assignment Grants from the College, 1992-1993, 1998-99, 2004-2005.
- Summer Research Grant from the College, 1993 & 1994.
- May Seminar Grant from Charles Center.
  - 2016 Evaluation and preperation of the mathematics skills of freshmen.
  - 2014 New curriculum in data science.
  - 2001 Improving Mathematics Curriculum for Economics and Business students.
  - 1993 Using Technology in Teaching Mathematics
- Seed grant from the Office of the Graduate Dean, 1996-97. (To develop a Web page on Matrix inequalities in Science and Engineering.)
- Wilson Fellowship for Interdisciplinary Research, 1996. (Supervising a W&M student from the economics department.)
- Mini-Grant for Integrating Technology in Teaching from the College, 1994.
- Conference Grant from the Dean's office, summer of 1992. (To support the first workshop on Numerical ranges and numerical radii held at Williamsburg.)
- Funds of Excellence from the College, 1991-92. (Mathematics Curriculum Reform)

## SPECIAL LECTURE AND LECTURE SERIES

- Lecture series on Quantum Information and Quantum Computing. National Tsinghua University, Taiwan, November-December, 2021. (20 online lectures.)
- MINI-LECTURE SERIES ON QUANTUM COMPUTING AND QUANTUM INFORMATION SCIENCE FOR NUCLEAR PHYSICS, Jefferson Lab., March, 2020.
- Hong Kong Baptist University, Matrix problems and techniques in quantum information science (Three 1 hour lectures), December, 2017.
- Shanghai University International Short Term, June, 2014. (A five day course.)
- A lecture series on Quantum Information Science, Shanghai University, January, 2014. (Three 2 hour lectures.)
- Summer workshop on Quantum Information Science, Taiyuan University of Technology, July, 2013. (Two 2 hour lectures, and chair of three 2 hour working session.)
- Summer workshop on Quantum Information Science, Taiyuan University Technology, July 2012. (Two 2 hour lectures.)
- A lecture series on Quantum Information Science, Academia Sinica, Taiwan, December, 2011. (Three 1.5 hour lectures.)

- Summer school on Quantum Information Science, Taiyuan University of Technology, July, 2011. (Two 1.5 hour lectures, and two 1.5 hours tutorials).
- Summer school on quantum computing, Center for Quantum Computing, Kinki University, August, 2010. (Four 1.5 hours lectures, and two 1.5 hour tutorials.)
- Summer School on Matrix Analysis supported by IMA and NSF, Iowa State University, July 2008. (Four 1.5 hour lectures on Matrix Inequalities, and two 1.5 hours tutorials.)

## CONFERENCE TALKS (2017-present)

2024

JMM meeting at San Francisco. Two talks, January.  
 A workshop on Theory I. Taichung, Taiwan, January.  
 A workshop on Quantum Theory II. Hsinchu, Taiwan, January.

2023

A mini-workshop on Quantum information science, Hsinchu, Taiwan, January.  
 A mini-workshop on Matrix Analysis, Tai Chung, January.  
 A workshop on the Numerical Ranges and Numerical Radii, Coimbra, Portugal, June.  
 International Linear Algebra Society Conference, Madrid, Spain, June.  
 A mini-workshop on Quantum information science, Krakow, Poland, June.  
 Recent Progress in Operator Theory and its Applications, Toyo University, Japan.  
 (An online talk is presented), Kyoto, November.

2022

AMS meeting. Special on matrix analysis and operator theory, Seattle, January.  
 Oslet operator theory seminar, Amsterdam, February. (Online.)  
 International Meeting on Matrix Analysis and its Applications, Portugal, July.  
 International Linear Algebra Society Conference, Ireland, July.

2021

NCTS Annual Theory Meeting 2021: Quantum Physics, Quantum Information, and Quantum Technologies, March.  
 European Congress of Mathematics, Slovenia, July.

2020

Preserver Webinar, University of Reading, (Web conference), May.  
 Zagreb Workshop on Operator Theory, (Web conference), June.  
 The 10th Seminar on Linear Algebra and Its Applications,  
 Shahid Bahonar University of Kerman, August.

\*\*\*\*\*The following are postponed due to COVID-19\*\*\*\*\*

Algebraic Graph Theory and Quantum Information, Toronto, May.  
 Workshop on numerical ranges and numerical radii, Portugal, June.  
 International Conference on Matrix Analysis & Applications, Portugal, June.  
 International Linear Algebra Society Conference, Ireland, June.  
 Linear Algebra workshop, Slovenia, June.  
 European Congress of Mathematics, Slovenia, July.

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2019

Mathematical Aspects in Quantum Information Theory, Seoul National University, May.  
 International Conference in Matrix Theory and its Applications, Jeju, May.  
 International workshop on Matrix Inequalities & Matrix Equations, Guilin, June.  
 Workshop on Numerical ranges and numerical radii, Toyo University, June.  
 Workshop on Matrices and Operators, Nankai University, July.  
 Canadian Mathematical Society Winter Conference, December.

2018

Recent Trends in Operator Theory and Applications, University of Memphis, May.  
International workshop on Matrix Inequalities & Matrix Equations, Shanghai Univ., June.  
Workshop on Numerical ranges and numerical radii, Munich, Germany, June.  
Workshop on Preserver Problems, Belfast, June.  
SIAM Annual Meeting, Oregon, July.  
International Workshop on Matrices and Operators, Shanghai, July.  
Workshop on the Mathematical Theory of Networks and Systems, Hong Kong, July.  
International Workshop on Operator Theory and its Applications, Shanghai, July.  
Joint SHU-SKKU International Conference in Matrix Theory and its Applications,  
Shanghai University, December.

2017

A workshop on Quantum Information & Operator Algebra, Chinese Academy of Science, Jan.  
Workshop on Matrix/Operator Theory & Their Applications, Sungkyunkwan University, May.  
International workshop on Matrix Inequalities & Matrix Equations, Shanghai Univ., June.  
International workshop on Matrices & Operators, Hunan University, June.  
Linear Algebra Workshop, Slovenia, July.  
Preservers Everywhere, Budapest, July.  
Western Canada Linear Algebra Meeting, Banff, July.  
International Linear Algebra Society Conference, Iowa State University, July.  
AIM Workshop on Crouzeix's Conjecture, San Jose, July/August.  
Conference on Operator systems in quantum information, Guelph, August.  
China-Korea International Conference on MATRIX THEORY WITH APPLICATIONS, Sungkyunkwan  
University, December.

## COLLOQUIUM / SEMINAR TALKS (2017-present)

2024

National Sun Yat-sen University, Taiwan, (colloquium talk) January.

2023

National Tsinghua University (2 hour seminar talk-quantum computing problems), January.  
National Sun Yat-sen University (colloquium), January.  
University of Washington - Seattle (applied mathematics seminar), January.  
George Mason University (quantum computing seminar), February.  
National Taipei University of Technology (quantum computing seminar), March.  
College of William and Mary, two GAG seminar talks, Sept.  
University of Texas-Arlington (colloquium), Oct.  
University of Maryland-Baltimore (colloquium), Nov.

2020

College of William & Mary (GAG seminar), Feb.  
University of Delaware (seminar), March.  
College of William & Mary (Applied Math. Seminar), Oct.

2019

William and Mary (1 colloquium, 1 seminar), March.  
University of Nevada at Reno (colloquium), March.  
The Kanto Seminar of Operator Theory, June.  
Shanghai University (1 mathematics talk, 1 physics talk), June.  
Tongji University (seminar), June.  
Shanghai Jiaotong University, June.  
Peng Cheng Laboratory, Shenzhen, June.



Shanghai Normal University, July  
 Tianjin Polytechnic University, July.  
 University of Central Florida, Oct.  
 2018  
 Academia Sinica, Taiwan, January.  
 National Chung Hsing University, Taiwan, February.  
 National Sun Yat-sen University, Taiwan, February. (1 colloquium/1 seminar talk).  
 University of Hong Kong, February.  
 University of Maryland, Baltimore, March.  
 National Taiwan University of Technology, Taipei, May.  
 Tamkang University, Tamsui, May.  
 National Taiwan Normal University, Taipei, May.  
 Soochow University, Taipei, May.  
 National Tsinghua University, Hsinchu, May.  
 National Chiao Tung University, Hsinchu, May.  
 National Chung Hsing University, Taichung, June.  
 National Sun Yat-sen University, Kaohsiung, June.  
 University of Science and Technology, Hefei, June.  
 College of William and Mary, a seminar talk in Sept.; a colloquium talk in Oct.  
 University of Hong Kong, Dec.  
 2017  
 Loyola University at Maryland, April.  
 University of Guelph, Sept.  
 University of Waterloo (Analysis Seminar), Sept.  
 York University, October.  
 University of Waterloo (Tutte Colloquium), October.  
 Johns Hopkins University, November.  
 Embry-Riddle Aeronautical University, November.  
 University of Regina, November.  
 San Jose State University, December.  
 Fudan University (seminar), December.  
 Tonji University (seminar), December.

## PROFESSIONAL SERVICE

### Collegewide Committee service:

Faculty Research Committee, 2018-present.  
 Committee on Faculty Awards, Professorships, and Prizes (CFAPP), 2016-19.  
 Noyce Scholarship Steering Committee, Fall, 2014 - present.  
 NTE Committee, Fall, 2012.  
 Review Committee of Class of 1962 Professor of Applied Science, Spring 2011.  
 Review Committee of CSX Professor of Applied Science, Spring 2011.  
 Lecture Funds Committee (Chair), 2001-2004.  
 Review Committee (convener) of Class of 1961 Professor, Fall 2001.  
 Review Committee of CSX Professor of Applied Science, Fall 2001.  
 Search Committee for the Chancellor Professors, 2000-01.  
 Ad Hoc Advisory Committee on Undergrad. Sci. Education, 1997-98.  
 Academic Advising - Freshman advisor, Fall of 1997-98.  
 Search Committee for the Dean of the Faculty of A&S, 1994-95.

## Mathematics Department:

Interim Chair, July 2020 - June, 2021.  
Chair, July 2002 - 2007 (on leave 2004-05).  
Merit Evaluation Committee (elected), 1993-94, 95-96, 97-98, 00-01, 18-19.  
Personnel Committee (elected),  
1991-92, 94-95, 96-97, 99-00, 01-02, 08-09, 11-14, 19-20.  
Hiring Committee, 1996-97, 99-00, 01-02.  
Undergraduate Curriculum Committee, 1988-92, 93-98, 13-17.  
Colloquium Committee, 1990-91, 96-98, 99-02, 13-17.  
Mathematics Department Library Committee, 1995-98, 99-00.  
Computer Committee, 1993-1998, 99-present (except on leave).  
Grant Opportunities Co-ordinator, 1990-92, 93-96.  
Co-ordinator of Faculty study seminar, 1994-98, 99-01.

## REVIEWER AND REFEREE FOR

Mathematical Reviews, National Science Foundation,  
Natural Sciences and Engineering Research Council of Canada,  
Hong Kong University Grants Committee, and many research journals.

## ORGANIZATION OF CONFERENCES

- Workshops on "Numerical ranges and numerical radii".  
Williamsburg, 1992; Coimbra, 1994; Sapporo, 1996; Madison, 1998;  
Napfljo, 2000; Auburn, 2002; Coimbra, 2004; Bremen, 2006;  
Williamsburg, 2008, Krakow, 2010; Kaohsiung, 2012; Sanya, 2014;  
Taipei, 2016; Munich, 2018; Tokyo, 2019; Portugal, 2020 (postponed to 2022).
- Workshops on "Matrices and Operators".  
First/second ones at Hong Kong, 2007; third one at Hong Kong, 2008;  
forth one at Kaoshiong, 2009, fifth one at Taiyuan; 2010, sixth one  
at Chengdu, 2011, seventh one at Heilongjiang, 2012; eighth one at  
Beijing, 2013; ninth one at Haikou, 2014; tenth one at Shaanxi, 2015;  
11th one at Jeju, 2016; 12th one at Hunan, 2017; 13th one at Shanghai,  
2018; 14th one at Nankai University, Tianjin, 2019; 15th one at Shandong,  
2020 (canceled).
- Joint International Conference in Matrix Theory and its Applications  
of the International Research Center of Tensor and Matrix Analysis  
of the Shanghai University and the Applied Algebra and  
Optimization Research Center of the Sungkyunkwan University,  
First conference at SHU, 2016; Second one at SKKU, 2017;  
Third one at SHU, 2018; Fourth one at SKKU, 2019.
- Workshops on "Preserver problems" in Hong Kong, 2004, 2005.
- International Meeting on Matrix Analysis and Applications,  
at Fort Lauderdale, 2003 and 2006
- International Linear Society Conferences, mini-symposia:  
"Quantum Information Science"  
at Ames, 2017, Belgium, 2016, Seoul, 2014, and Providence, 2013.  
"Matrix and Operator Inequalities"  
at Pisa, 2010, Amsterdam, 2006, and Coimbra, 2004.

- "Preserver Problems" at Regina, 2005.
- SIAM Applied Linear Algebra Conferences, mini-symposia:
  - "Indefinite Inner Product" at Williamsburg, 2003.
  - "Numerical Ranges and Numerical Radii" at Minneapolis, 1991.
- IWOTA, mini-symposium
  - "Matrix and Operator Inequalities" at Williamsburg 2008.
- Fourth International Matrix Theory Conference, a symposium on
  - "Linear Preserver Problems" at Auburn, 1990.
- Southeastern Linear Algebra Meeting, Williamsburg, 1996.
- Co-ordinator of the ATLAST workshop on using computer technology in teaching linear algebra, Williamsburg, 1995.

## EXAMINATION COMMITTEE

- Ph.D. committees of
  - University of Hong Kong,
  - College of William and Mary (Math. and Physics)
  - University of Wisconsin - Madison.
  - University of Guelph.
  - University of Toronto.
  - University of Waterloo.
  - National Sun Yat-sen University.
  - Drexel University.
- M. Phil. candidates of University of Hong Kong.
- University of Malaya.
- Honors Theses of William and Mary students in CS, Physics, Chemistry, Modern Language, and Mathematics Departments.