

COLLEGE OF WILLIAM AND MARY
CURRICULUM VITAE STANDARD FORMAT

PERSONAL INFORMATION

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Date: July, 2007.

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Position: Ferguson Professor and Chair, Mathematics, W&M;
also associate with the Applied Science Department, W&M;
Honorary Professor of Mathematics, University of Hong Kong.

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
Professor, August 1996 - July 2000
(On leave for the academic year 2004-05, 1998-99)
Associate Professor, August 1991 - July 1996
(On leave for the academic years 1992-93)
Assistant Professor, August 1988 - July 1991
(On leave for the Spring of 1991)

University of Hong Kong:

Honorary Professor, June 2002 - present.

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 editor: Jan. 1996 - present.
- Linear and Multilinear Algebra,
Editor-in-chief: May 2006 - present,
Associate editor: March 2001 - April 2006,
Editorial board member: Sept. 1993 - March 2001.
- Journal of Inequalities in Pure and Applied Mathematics,

- Editorial board member: Sept. 99 - present,
- Operators and Matrices,
- Editor-in-chief: May 2006 - present,
- IMAGE (Newsletter of International Linear Algebra Society),
- Senior associate editor: Sept. 98 - present,
- Contributing editor: Sept. 95 - August, 98.

Offices in the International Linear Algebra Society:

- Journal Committee (Chair), May, 99 - Feb. 05.
- Advisory Committee (Chair), April 98 - Feb. 02.
- Nominating Committee, April 2000 - Feb. 2001.
- Nominating Committee (Chair), April 97 - Feb. 98.
- Board of directors, March 95 - Feb. 97.
- Advisory committee, Sept. 94 - March 95.
- Nominating committee, March 93 - June 93.

HONORS, PRIZES, AND AWARDS

- 2004 Virginia Outstanding Faculty Award
- 2003 PBK Society Teaching Award

COURSES TAUGHT

Brief calculus with applications, calculus, multi-variable calculus, foundation of higher mathematics, introductory combinatorial theory, differential equations, elementary analysis, intermediate analysis, number theory, numerical analysis, abstract algebra I & II, geometry, game theory, linear algebra, advanced linear algebra, complex analysis, matrix analysis and applications (graduate level, at Johns Hopkins University), topics in linear algebra (graduate level, at UW-Madison).

GRADUATE AND UNDERGRADUATE ADVISING

Ph.D. Students:

- 2004: Tom Milligan, William & Mary.
- 2005: Nung-Sing Sze, University of Hong Kong.

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].

REU projects:

- 1990: S.Chang, C.Heckman, (3 projects)
- 1992: P.Mehta, (3 projects)
- 1993: C.Hamilton-Jester, A-L. Klaus, W.Whitney, (3 projects)
- 1996: T.Coleman, J.Lin, T.Travison, (2 projects)
- 2000: H.Chiang, W.Funk, (2 projects during the acad. year)
- 2002: F.Curtis, D.Pragel, O.Shenker, K.Spurrier, (2 projects)
- 2003: M.Alwill, E.Bellenot, C.Maher. (2 projects)
- 2005: Cole South (1 project)
- 2007: Sean Clark, Aswhin Rastogi (2 projects)

Wilson interdisciplinary undergraduate research project:

- 1996: S. Nataraj.

RESEARCH GRANT

External grants.

- National Science Foundation
CSUMS: 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.)
- NATO
Visiting Scholar Grant, 1996-1997.
Collaborative Research Grant (Project co-ordinator),
1993-95, 1995-97.
- American Mathematical Society -Fan's Exchange Program
Joint grant with Junping Shi, 2003-04.
- Hong Kong Research Grants Council
Joint research grant with Jor-Ting Chan, 2003-05, 2005-2007.
- Hong Kong Research Grants Council
Joint research grant with Tuen-Wai Ng, 2005-2008.
- Slovenian Research Agency
Bilateral collaboration, joint with Leiba Rodman, 2006-2007.

Internal grants.

- 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.
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)

RESEARCH

PAPERS, BOOKS, MONOGRAPHS, REVIEW.

My current list of publications is available at
<http://www.math.wm.edu/~ckli/pub.html/>

CONFERENCE TALKS (1997-2006)

2007

Southeast Analysis Meeting, Richmond, March 2007.

RC Thompson Matrix Meeting, Auburn, March.

A workshop on Matrices and Operators, Hong Kong, April 2007.

A workshop on Matrices and Operators, Hong Kong, July 2007.

International Linear Algebra Society, Shanghai, July 2007.
Meeting celebrating the 80th birthday of Hans Schneider, Storr, Nov. 2007.

2006

Wabash Extramural Modern Analysis Seminar, April.
The eighth workshop on numerical ranges and numerical radii,
Bremen University, Germany, July.
International Linear Algebra Society Conference, Vrije Univ.,
Amsterdam, July.
The second International Workshop on Matrix Analysis & Applications,
Fort Lauderdale, December.

2005

KAIST (Korean Advanced Institute of Science and Technology)
First workshop on mathematical education, May.
Linear Algebra Workshop, Slovenia, May.
Workshop on preserver problems, Hong Kong, May.
International Linear Algebra Society Conference, Univ. of Regina, June.
(Linear and Multilinear Algebra lecturer.)
AMS regional meeting at Lincoln, October.
RCT Matrix theory conference at San Francisco, November.
Canadian Mathematics Society Conference at Victoria, December.

2004

Workshop on combinatorial matrix theory, BIRS, May.
Workshop on preserver problems, Hong Kong, July.
Seventh Workshop on Numerical Ranges and Radii, University of Coimbra,
July.
International Linear Algebra Society Conference, University of Coimbra,
July.
Robert Thompson Matrix Theory Meeting, San Jose, November.
Operator Inequalities Conference, Kyoto, December.

2003

SIAM Applied Linear Algebra Conference, William and Mary, July.
Banff International Research Station Workshop:
Theory and Numerics of Matrix Eigenvalues Problems, November
International Conference on Matrix Analysis and Applications,
Fort Lauderdale, December.

2002

AMS Regional Conference, Georgia Tech., March.
Multilinear Algebra Conference, Univ. of Lisbon, April.
Topics in Matrix Theory, Iowa State Univ. Sept.
Sixth Workshop on Numerical Ranges and Radii, Auburn Univ., June.
International Linear Algebra Society Conference, Auburn Univ., June.
Applied Linear Algebra Conference, Shanghai, August.

2001

Summer conference of Canadian Mathematical Society, Saskatoon,
June, (ILAS speaker.)
Southern California Meeting, San Jose State Univ. Nov. Speaker.

2000

International Conference on Mathematical Analysis & Appl., Taiwan.
The fifth Workshop on Numerical Ranges and Numerical Radii, Greece.

1999

Workshop on Linear Preserver Problems, Portugal, January,

Workshop on Linear Algebra, Bled - Slovenia, June,
 Workshop on Spectral Inequalities, Coimbra - Portugal, July,
 International Linear Algebra Society Conference, Spain, July,
 (Olga Taussky/John Todd Lecturer)
 Southern California Matrix Meeting, San Diego, November,
 Matrix Meeting, University of South Carolina, December.

1998

Matrix Theory Workshop (dedicated to Professor Y.H. Au-Yeung
 on the occasion of his retirement), Hong Kong, May.
 Fourth workshop on numerical ranges and numerical radii, Madison, June,
 Seventh International Linear Algebra Society Conference, Madison, June.
 One Day Workshop on Matrix Theory, Hong Kong, December.

1997

Conference on Matrix Theory and Algebra, Coimbra, Portugal.
 SIAM Conference on Applied Linear Algebra, Snowbirds.

COLLOQUIUM / SEMINAR TALKS (1997-2006)

2008

Auburn University, March 2008.
 Georgia Tech, March 2008.

2007

Kent State University, March 2007.
 University of Toronto, April 2007.
 University of Hong Kong, April 2007.
 National Central University, Taiwan, April 2007.
 National Chiao Tung University, Taiwan, April 2007.
 Tamkang University, Taiwan, April 2007.
 Zhongshan University, China, April 2007.
 Macau University, April 2007.
 Baptist University, Hong Kong, April 2007.
 Hong Kong University of Science and Technology, April 2007.
 Max Planck Institute, Munich, May 2007.
 University of Zegrab, May 2007.
 University of Ljubjana, June 2007.
 Banach Center, Warsaw (2 talks), June 2007.
 Adam Mickiewicz University, Poznan, June 2007.
 Central Michigan University (2 talks), June 2007.
 The Chinese University of Hong Kong, July 2007.
 University of Washington, Oct. 2007.
 San Jose State University, Oct. 2007.

2006

Auburn University, March (colloquium).
 Iowa State University, March (colloquium).
 University of Illinois - UC, April (colloquium).
 Xiangtan University, China, May (colloquium).
 Xiamen University, China, May (colloquium).
 Baptist University, Hong Kong, May (colloquium).
 National Sun Yat-Sen University, Taiwan, May (colloquium).
 National Cheng Kung University, Taiwan, May (colloquium).
 University of Hong Kong, May (colloquium).
 Nova Southeastern University, Dec. (colloquium).

2005

Auburn University, February (colloquium).
 Iowa State University, April (colloquium).

Wyoming University, April (colloquium).
Sungkyunkwan University, May (colloquium).
Suwon University, May (colloquium).
Pohang University of Science and Technology, May (seminar).
Kyongpook National University, May (colloquium).

2004

Peking university, January (colloquium).
Chinese Academy of Sciences, January and September (seminars).
Tsinghua University, January and September (colloquia).
Hong Kong Institute of Education, January (2 seminars, 1 colloquium).
Johns Hopkins University, March (colloquium).
Heilongjiang University, September (2 colloquia).
Heilongjiang Teachers' University, September (1 colloquium).
Shanxi Teachers' University, September (2 colloquia).
University of Connecticut, October (colloquium).
University of Kentucky, November (colloquium).
Soochow University, December (2 seminars and 1 colloquium).
Hokkaido University, December (colloquium).

2003

College of William and Mary (REU talk)
Hong Kong University of Science and Technology (Seminar)
National University of Singapore (colloquium)
Rensselaer Polytechnic Institute (colloquium)
University of Calgary (colloquium)

2002

Georgia State University (colloquium)
College of William and Mary (REU talk)
University of Hong Kong (seminar)

2001

Iowa State University (colloquium)
University of Hong Kong (colloquium)
Georgia Institute of Technology (seminar)
Auburn University (colloquium)
College of William and Mary (seminar)

2000

University of Hong Kong (colloquium),
National Technical University of Greece. (colloquium).

1999

University of Toronto (seminar),
University of Coimbra (colloquium),
McGill University (colloquium),
University of Regina (colloquium),
San Jose State University (colloquium),
College of William and Mary ((Faculty study seminar).

1998

University of Toronto (seminar),
College of William and Mary (Faculty study seminar),
University of Coimbra (colloquium),
Iowa State University (colloquium).

1997

University of Lisbon (colloquium),
College of William and Mary (REU seminar, Faculty study seminar).

PROFESSIONAL SERVICE

Collegewide Committee service:

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:

Chair, July 2002 - present (on leave 2004-05).
 Merit Evaluation Committee (elected), 1993-94, 95-96, 97-98, 00-01.
 Personnel Committee (elected), 1991-92, 94-95, 96-97, 99-00, 01-02.
 Hiring Committee, 1996-97, 99-00, 01-02.
 Undergraduate Curriculum Committee, 1988-92, 93-98.
 Colloquium Committee, 1990-91, 96-98, 99-02.
 Mathematics Department Library Committee, 1995-98, 99-00.
 Computer Committee, 1993-1998, 99-02.
 Grant Opportunities Co-ordinator, 1990-92, 93-96.
 Co-ordinator of Faculty study seminar, 1994-98, 99-01.
 TeX user group representative, 1988-91.

REVIEWER AND REFEREE FOR

Mathematical Reviews, National Science Foundation,
 Natural Sciences and Engineering Research Council of Canada,
 Hong Kong University Grants Committee, and a number
 of international research journals including:

- Linear and Multilinear Algebra,
- Linear Algebra and Its Applications,
- SIAM Journal of Matrix Analysis and Applications,
- Rocky Mountain J. of Mathematics,
- Proc. of American Math. Soc.,
- J. Operator Theory,
- J. Integral Equations and Operator Theory,
- J. Mathematical Analysis Appl.,
- Amer. Math. Monthly.

ORGANIZATION OF CONFERENCES

- The Second International Meeting on Matrix Analysis and Applications, Fort Lauderdale, 2006.
- A symposium on "Matrix and Operator Inequalities" at the International Linear Algebra Society, Amsterdam, 2006.
- The eighth workshop on "Numerical Ranges and Numerical Radii", Bremen, 2006.
- A symposium on "Preserver Problems" at the International Linear Algebra Society Conference, Regina, 2005.
- A workshop on preserver problems, Hong Kong, 2005.
- A symposium on "Matrix Inequalities" at the International Linear Algebra Society Conference, Coimbra, 2004.
- A workshop on "Preserver Problems", Hong Kong, 2004.
- International Meeting on Matrix Analysis and Applications, Fort Lauderdale, 2003.
- A symposium on "Indefinite Inner Product" at the Eighth SIAM

- Applied Linear Algebra Conference, Williamsburg, 2003.
- The sixth workshop on "Numerical Ranges & Radii", Auburn, 2002.
 - The fourth workshop on "Numerical Ranges & Radii", Madison, 1998.
 - Second Southeastern Linear Algebra Meeting, Williamsburg, 1996.
 - Co-ordinator of the ATLAST workshop on using computer technology in teaching linear algebra, Williamsburg, 1995.
 - A workshop on "Numerical Ranges and Radii", Williamsburg, 1992.
 - A symposium on "Numerical Ranges and Numerical Radii" at the Fourth SIAM Conference on Applied Linear Algebra, Minneapolis, 1991.
 - A symposium on "Linear Preserver Problems" at the Fourth International Matrix Theory Conference, Auburn, 1990.

EXAMINATION COMMITTEE (number of candidates in bracket)

- Ph.D. candidates of
University of Hong Kong,
College of William and Mary (1), chairing the exam. committee,
University of Wisconsin - Madison (1), and
University of Toronto (2).
- M. Phil. candidates of University of Hong Kong (3).
- Honors Theses of William and Mary students in CS, Physics,
Chemistry, and Mathematics Departments.

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