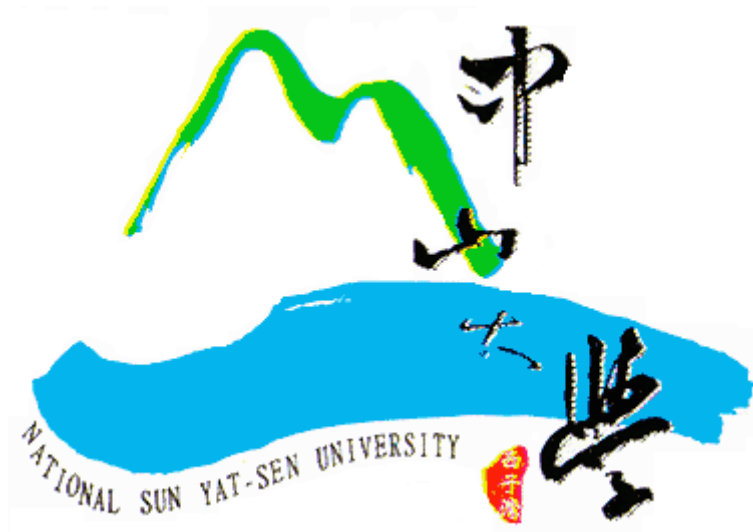


National Sun Yat-Sen University

Applied Mathematics

Departmental Report



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1. Introduction

National Sun Yat-sen University is selected by Ministry of Education as one of the seven research universities in Taiwan, including National Taiwan University, National Central University, National Tsing Hua University, National Chiao Tung University, National Yang-Ming University, and National Cheng Kung University. The Department of Applied Mathematics offers master degree at 1987, bachelor degree at 1990, and doctoral degree at 1994. The bachelor degree curriculum provides students with substantial math courses to establish the students' background knowledge. Our department also provides financial and software programs to equip the students with the ability to apply for graduate school or meet the needs of the job market. The graduate program is divided into three groups: Statistics Group, Scientific Computing Group, and Mathematics Group. Students will be further trained in both theoretical and applied perspective. The doctoral program provides rigorous training to future academic scholars with the analytic acumen and intellectual maturity to conduct independent research.

Research Facilities

The Department is the center of math books of the National Science Council in Kaohsiung area. We have all kinds of journal articles in the library. Our department is equipped with two computer classrooms, one for graduate program and the other one for undergraduate students, and five multilingual classrooms. All the graduate students have their own laboratory and there will be a shared computer and bookshelves in each laboratory.

Faculty

All the professors get their Ph.D. and are enthusiastic about teaching and doing research. Every professor has his own National Science Council project and is often awarded all kinds of teaching and research honors. Some professors are the chief editor or in the edit committee of important academic journals. In addition, our department is very active in the academic activities;

for example, we took the initiative of the Statistics Conference in the Southern Area, held the International Math Conference in 1994, and the first Cross-Strait Statistics Conference in 1996, etc. Furthermore, our professors care a lot of the students and keep in touch with those who have graduated from our department. In order to educate the people of talent in basic science, our department undertakes the National Science Council project of breeding the talented students in math in senior high school and takes charge of the continuing education math credit courses for high school teachers. Recently, our department employs professor Hong-Kun Xu, the academician of CSIR, as the visiting chair professor of the school. Also, our department is planning to have a doctoral degree in Applied Math in English to recruit all talented math candidates for doctor's degree in the world. Under the support of the school, our department seeks to become the top math research center in the world.

Future of the students

Our students can choose either minor or double major based on their own interests, and they are allowed to take courses from other departments. To develop students' multi ability of learning and meet the needs of the professional world, our department works together with Department of Finance and Department of Business Management to have Math and Science Financial Courses; we also cooperate with Department of Computer Science and Engineering, Department of Information Management, and Department of Electrical Engineering to have Software Engineering Courses for students to take. Moreover, the school provides Teacher Education Program for those who want to be teachers in high school or in elementary school to take. Owing to the excellent learning environment, our students could be well trained. Up to now, 556 students get their bachelor's degree, 360 graduate students get their master degree, and 16 students get their Ph.D from our department. All the students who graduate from our department do very well in their own field, such as continuing their studies, working in insurance companies, or technology companies.

School Location

Being an international harbor, Kaohsiung, located in southern Taiwan, is a highly developed city. Our school is located in Sizihwan Beach in Kaohsiung city. We have much scenery near the school, such as Lotus Lake and Chichin Seaside Park. Overlooking the Taiwan Strait along with a clean beach and embraced by Shoushan Mountain, the campus provides unparalleled natural beauty.

2. Staff

- **Academic staff**

Professor and Chair of Applied of Mathematics

Professor Tzon-Tzer Lu, Ph. D., University of California, Berkeley, USA, 1992

Professor and Dean of College of Science

Professor Jen-Chih Yao, Ph. D., Stanford University, USA, 1990

Professor and Curator of library

Professor Mong-Na Lo Huang, Ph. D., Purdue University, USA, 1983

Professors

Professor Zi-Cai Li, Ph. D., University of Toronto, Canada, 1986

Professor Ngai-Ching Wong, Ph. D., Purdue University, USA, 1991

Professor Chun-Kong Law, Ph. D., University of Pittsburgh, USA, 1992

Professor Xuding Zhu, Ph. D., University of Calgary, Canada , 1990

Professor Fu-Chuen Chang, Ph. D., Purdue University, USA, 1992

Professor Jhishen Tsay, Ph. D., University of Arizona, USA, 1991

Professor Mei-Hui Guo, Ph. D., University of Maryland, College Park, USA, 1989

Professor Chin-San Lee, Ph. D., University of Maryland, USA, 1989

Professor

Professor Hong-Kun Xu, Ph.D., XI'AN JIAOTONG University, China, 1988

Associate Professors

Dr. Mark C. Ho, Ph. D., Purdue University, USA, 1996

Dr. Chien-Sen Huang, Ph. D., Purdue University, USA, 1998

Dr. Li-Da Tong, Ph. D., National Chiao Tung University, 1998

Dr. Yungyen Chiang, Ph. D., The City University of New York, 1995

Dr. Tsai-Lien Wong, Ph. D., National Taiwan University, 1996

• General staff

Administrative Assistant

Shang-Chun Liu

You-Shiuan Chen

Chuang-wen Hu

Li-Juan Wu

Systems Administrator

Shiouh-Ying Wang

Librarian

Chai-Fung Yen

Clerk

Hsiu-Feng Chiu

Yue-Tao Lu

National Science Council Research Projects

2004~2006

| Investigator | Project | Time | Pay for investigator per month | Total |
|---------------------|--|-------------------|--------------------------------|-----------|
| Mong-Na Lo Huang | Model robust designs for mixture experiments (2/3) | 93/08/01-94/07/31 | 10,000 | 1,045,000 |
| Mong-Na Lo Huang | Model robust designs for mixture experiments (3/3) | 94/08/01-95/07/31 | 20,000 | 1,157,000 |
| Mong-Na Lo Huang | Exact D-optimal and robust designs for response surface models (1/2) | 95/08/01-96/07/31 | 20,000 | 1,490,000 |
| Zi-Cai Li | Global superconvergence of finite element methods and applications (2/2) | 93/08/01-94/07/31 | 20,000 | 754,600 |
| Zi-Cai Li | Trefftz and boundary methods | 94/08/01-95/07/31 | 10,000 | 971,000 |
| Zi-Cai Li | Boundary methods and effective condition number | 95/08/01-96/07/31 | 20,000 | 946,000 |
| Jen-Chih Yao | A class of optimization and equilibrium problems (1/3) | 93/08/01-94/07/31 | 10,000 | 886,600 |
| Jen-Chih Yao | Bilevel optimization problems with vector optimization as lower level problems | 93/08/01-94/07/31 | 0 | 518,100 |
| Jen-Chih Yao | A class of optimization and equilibrium problems (2/3) | 94/08/01-95/07/31 | 20,000 | 1,706,000 |
| Jen-Chih Yao | On modified proximal point algorithms | 94/08/01-95/07/31 | 0 | 505,000 |
| Jen-Chih Yao | A class of optimization and equilibrium problems (3/3) | 95/08/01-96/07/31 | 20,000 | 1,711,000 |
| Jen-Chih Yao | Optimization with equilibrium constraints | 95/08/01-96/07/31 | 0 | 639,000 |
| Ngai-Ching Wong | Local structure of operator algebras (1/3) | 93/08/01-94/07/31 | 10,000 | 1,614,600 |
| Ngai-Ching Wong | Mathematical library service in the Kaohsiung area (3/3) | 93/01/01-93/12/31 | 0 | 1,950,000 |

| Investigator | Project | Time | Pay for investigator per month | Total |
|---------------------|--|-------------------|---------------------------------------|--------------|
| Ngai-Ching Wong | Local structure of operator algebras (2/3) | 94/08/01-95/07/31 | 20,000 | 1,607,000 |
| Ngai-Ching Wong | Mathematical library service in the Kaohsiung area (1/3) | 94/01/01-94/12/31 | 0 | 1,973,000 |
| Ngai-Ching Wong | Local structure of operator algebras (3/3) | 95/08/01-96/07/31 | 20,000 | 1,429,000 |
| Ngai-Ching Wong | Mathematical library service in the Kaohsiung area (2/3) | 95/01/01-95/12/31 | 0 | 1,974,000 |
| Chun-Kong Law | Topics on inverse spectral problems (2/2) | 93/08/01-94/07/31 | 10,000 | 1,267,300 |
| Chun-Kong Law | A developmental problem for Kaohsiung area high school students with mathematical talent (1/2) | 93/08/01-94/07/31 | 0 | 1,341,500 |
| Chun-Kong Law | The inverse nodal problem for Hill's equation | 94/08/01-95/07/31 | 10,000 | 762,000 |
| Chun-Kong Law | A developmental problem for Kaohsiung area high school students with mathematical talent (2/2) | 94/08/01-96/01/31 | 0 | 1,871,000 |
| Chun-Kong Law | Inverse nodal problems for linear and nonlinear differential equations (1/2) | 95/08/01-96/07/31 | 10,000 | 877,000 |
| Xuding Zhu | Circular chromatic number of graphs and its applications (2/3) | 93/08/01-94/07/31 | 10,000 | 1,194,600 |
| Xuding Zhu | Circular chromatic number of graphs and its applications (3/3) | 94/08/01-95/07/31 | 20,000 | 1,332,000 |
| Xuding Zhu | Circular chromatic index of graphs (1/3) | 95/08/01-96/07/31 | 20,000 | 1,406,000 |
| Xuding Zhu | Circular coloring and circular flow of graphs (1/2) | 95/02/01-96/01/31 | 0 | 301,000 |
| Fu-Chuen Chang | Construction of exact and approximate D-,A-,E-optimal designs (1/2) | 93/08/01-94/07/31 | 10,000 | 613,600 |
| Fu-Chuen Chang | Construction of exact and approximate D-,A-,E-optimal designs (2/2) | 94/08/01-95/07/31 | 10,000 | 607,000 |
| Fu-Chuen Chang | Optimal designs for weighted polynomial regression (1/2) | 95/08/01-96/07/31 | 20,000 | 743,000 |
| Jhishen Tsay | On the convergence of sums of random elements in Banach spaces | 93/08/01-94/07/31 | 10,000 | 324,600 |

| Investigator | Project | Time | Pay for investigator per month | Total |
|-----------------|--|-------------------|--------------------------------|-----------|
| | (1/2) | | | |
| Jhishen Tsay | On the convergence of sums of random elements in Banach spaces (2/2) | 94/08/01-95/07/31 | 10,000 | 328,000 |
| Jhishen Tsay | Study on hidden Markov models and its applications | 95/08/01-96/07/31 | 10,000 | 333,000 |
| Mei-Hui Guo | Studies on the financial time series data with heavy-tail or skewness properties (2/2) | 93/08/01-94/07/31 | 10,000 | 855,600 |
| Mei-Hui Guo | Studies on the pricing of financial derivatives- credit risk and American option (1/2) | 94/08/01-95/07/31 | 10,000 | 864,000 |
| Mei-Hui Guo | Studies on the pricing of financial derivatives- credit risk and American option (2/2) | 95/08/01-96/07/31 | 10,000 | 916,000 |
| Tzon-Tzer Lu | Numerical computation for nonlinear beam problems | 93/08/01-94/07/31 | 10,000 | 703,000 |
| Tzon-Tzer Lu | Semi-analytic method for boundary value problems of ODEs | 94/08/01-95/07/31 | 10,000 | 635,000 |
| Tzon-Tzer Lu | Convergent analysis of boundary approximation method | 95/08/01-96/07/31 | 10,000 | 1,217,000 |
| Mark C. Ho | Compression of weighted composition operators on $L^2(\mu)$ (1/2) | 93/08/01-94/07/31 | 10,000 | 599,600 |
| Mark C. Ho | Compression of weighted composition operators on $L^2(\mu)$ (2/2) | 94/08/01-95/07/31 | 10,000 | 457,000 |
| Mark C. Ho | Spaces of analytic functions on the unit disc generated by symmetric norming functions on \mathbb{C}_0 | 95/08/01-96/07/31 | 10,000 | 470,000 |
| Chieh-Sen Huang | A fast fully mass and volume conservating scheme of a characteristic method for transport problems (1/3) | 93/08/01-94/07/31 | 10,000 | 580,100 |
| Chieh-Sen Huang | A fast fully mass and volume conservating scheme of a characteristic method for transport | 94/08/01-95/07/31 | 10,000 | 733,000 |

| Investigator | Project | Time | Pay for investigator per month | Total |
|---------------------|---|-------------------|---------------------------------------|--------------|
| | problems (2/3) | | | |
| Chieh-Sen Huang | A fast fully mass and volume conservativng scheme of a characteristic method for transport problems (3/3) | 95/08/01-96/07/31 | 10,000 | 833,000 |
| Tsai-Lien Wong | Commutators and Derivations of Rings (2/2) | 93/08/01-94/07/31 | 10,000 | 452,200 |
| Tsai-Lien Wong | Linear preserving maps of rings (1/2) | 94/08/01-95/07/31 | 10,000 | 506,000 |
| Tsai-Lien Wong | Linear preserving maps of rings (2/2) | 95/08/01-96/07/31 | 10,000 | 515,000 |
| Li-Da Tong | The Hamiltonian property of multi-loop networks and Cayley digraphs and related problems (1/2) | 93/08/01-94/07/31 | 10,000 | 874,600 |
| Li-Da Tong | The Hamiltonian property of multi-loop networks and Cayley digraphs and related problems (2/2) | 94/08/01-95/07/31 | 10,000 | 610,000 |
| Li-Da Tong | Orientations and related problems (1/2) | 95/08/01-96/07/31 | 10,000 | 751,000 |
| Yungyen Chiang | Generalized vector equilibrium problems | 93/08/01-94/07/31 | 10,000 | 489,600 |
| Yungyen Chiang | Vector variational inequalities without continuities | 94/08/01-95/07/31 | 10,000 | 570,000 |
| Yungyen Chiang | Complementarity problems in Banach spaces | 95/08/01-96/07/31 | 10,000 | 699,000 |

Conference Attended

| No. | Teacher | From | To | Place | Conference |
|-----|------------|----------|----------|---|--|
| 1 | Xuding Zhu | 92/11/16 | 92/11/22 | Fukuoka, Japan | The Second East Asian Conference on Algebra and Combinatorics |
| 2 | Xuding Zhu | 93/06/11 | 93/06/18 | Nashville, U.S.A. | 2004 SIAM Conference on Discrete Mathematics |
| 3 | Xuding Zhu | 93/11/20 | 93/11/20 | Toronto, Calgary, Lethbridge, Vancouver, Canada | Combinatorial Potlatch (held in Vancouver) |
| 4 | Xuding Zhu | 94/06/23 | 94/06/25 | Shanghai, China | Shanghai East-China Normal University Combinatorics Conference |
| 5 | Xuding Zhu | 94/06/26 | 94/06/30 | Jin Hua, China | Jinhua Cross-Strait Conference on Graph Theory |
| 6 | Xuding Zhu | 94/09/12 | 94/09/16 | Toulon, France | 7th International Colloquium on Graph Theory (ICGT 2005) |
| 7 | Xuding Zhu | 94/09/18 | 94/09/23 | Karpacz, Poland | 11th Workshop on Graph Theory - Colourings, Independence and Domination |
| 8 | Xuding Zhu | 95/05/01 | 95/05/05 | Victoria, Canada | Combinatorics 2006-A meeting in celebration of Pavol Hell's 60th birthday |
| 9 | Xuding Zhu | 95/06/25 | 95/06/28 | Victoria, Canada | 2006 SIAM conference on discrete mathematics |
| 10 | Xuding Zhu | 95/07/10 | 95/07/15 | Prague, Czech | Sixth Czech-Slovak international symposium on combinatorics, graph theory, algorithms and applications |
| 11 | Xuding Zhu | 95/07/29 | 95/08/05 | Hong Kong, Beijing, China | Visit Hong Kong Science and Technology University and Chinese Academy of Sciences |
| 12 | Xuding Zhu | 95/09/11 | 95/09/15 | 1. Bordeaux, France 2. Krakow(Ustron), Poland | Fifth Cracow conference on graph theory |

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|----|--------------|----------|----------|--------------------------|--|
| 13 | Xuding Zhu | 95/12/15 | 95/12/18 | Bangalore, India | International Conference on Discrete Mathematics |
| 14 | Mark C. Ho | 92/11/02 | 92/11/03 | Indianapolis, U.S.A. | Wabash MiniConference on Modern Analysis 2003 |
| 15 | Mark C. Ho | 93/12/16 | 93/12/19 | Hong Kong | ICCM 2004 |
| 16 | Mark C. Ho | 95/02/22 | 95/02/24 | San Francisco, U.S.A. | SIAM Conference on Parallel Processing for Scientific Computing |
| 17 | Tzon-Tzer Lu | 93/07/18 | 93/07/21 | Orlando, U.S.A. | The 8th World Multi-Conference on Systemics Cybernetics and Informatics |
| 18 | Tzon-Tzer Lu | 94/07/27 | 94/07/29 | Montreal, Canada | 6th International Conference on Boundary Element Techniques |
| 19 | Tzon-Tzer Lu | 95/07/16 | 95/07/22 | Los Angeles, U.S.A. | 7th World Congress on Computational Mechanics |
| 20 | Zi-Cai Li | 92/10/23 | 92/10/25 | Beijing, Shanghai, China | Sixth Asian Symposium on Computer Mathematics |
| 21 | Zi-Cai Li | 92/12/15 | 92/12/19 | Singapore | International Conference on Numerical Information Processing at Institute for Mathematical Science |
| 22 | Zi-Cai Li | 95/07/16 | 95/07/22 | Los Angeles, U.S.A. | The world congress on computational mechanics |
| 23 | Jen-Chih Yao | 92/08/25 | 92/08/29 | Tokyo, Japan | International Conference on Nonlinear Analysis and Convex Analysis |
| 24 | Jen-Chih Yao | 93/07/25 | 93/07/31 | Chongqing, 四川, China | The 3rd International Conference on Optimization and Control with Applications (OCA 2004) |
| 25 | Jen-Chih Yao | 93/09/06 | 93/09/08 | Kyoto, Japan | International Workshop on Nonlinear Analysis and Convex Analysis |
| 26 | Jen-Chih Yao | 94/08/23 | 94/08/25 | Kyoto, Japan | Workshop on Nonlinear Analysis and Convex Analysis |

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|----|----------------|----------|----------|-----------------------|--|
| 27 | Jen-Chih Yao | 95/05/29 | 95/06/01 | Shanghai, China | International conference on nonlinear programming and applications (NPA 2006) |
| 28 | Jen-Chih Yao | 96/01/26 | 96/01/30 | Hong Kong, China | Workshop on Vector Variational Inequality |
| 29 | Fu-Chuen Chang | 92/08/03 | 92/08/07 | San Francisco, U.S.A. | 2003 Joint Statistical Meetings |
| 30 | Fu-Chuen Chang | 93/08/08 | 93/08/12 | Toronto, Canada | 2004 Joint Statistical Meetings |
| 31 | Fu-Chuen Chang | 94/08/07 | 94/08/11 | Minneapolis, U.S.A. | 2005 Joint Statistical Meetings |
| 32 | Fu-Chuen Chang | 95/06/10 | 95/06/11 | Beijing, China | 2006 Statistics International Forums at Renmin University of China in Peking (2006 統計學國際論壇) |
| 33 | Fu-Chuen Chang | 95/08/06 | 95/08/10 | Seattle, U.S.A. | 2006 Joint Statistical Meetings |
| 34 | Mei-Hui Guo | 92/12/18 | 92/12/20 | Hong Kong, China | Bernoulli Society East Asian and Pacific Regional Conference 2003 |
| 35 | Mei-Hui Guo | 93/03/21 | 93/03/23 | Yokohama, Japan | The 21st Century COE Program at Keiq, Cherry Bud Workshop : Analysis of Natural and Social Phenomena : Data Science and System Reduction |
| 36 | Mei-Hui Guo | 93/07/26 | 93/07/31 | Barcelona, Spain | 6th World Congress of Bernoulli Society for Mathematical Statistics and Probability |
| 37 | Mei-Hui Guo | 93/08/16 | 93/08/18 | Lanzhou, China | The 4th two sides of straits statistics and probability conference |
| 38 | Mei-Hui Guo | 94/07/22 | 94/07/29 | Oslo, Norway | 25th European Meeting of Statisticians |
| 39 | Mei-Hui Guo | 95/07/05 | 95/07/06 | Xiamen, China | The 2006 International Symposium on Financial Engineering and Risk Management. |

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|----|-----------------|----------|----------|------------------------------------|---|
| 40 | Mei-Hui Guo | 95/08/06 | 95/08/10 | Seattle, U.S.A. | 2006 Joint Statistical Meetings |
| 41 | Chieh-Sen Huang | 94/06/07 | 94/06/10 | Avignon, France | 2005 SIAM Conference on Mathematical and Computational Issues in the Geosciences |
| 42 | Chieh-Sen Huang | 95/01/12 | 95/01/15 | San Antonion, U.S.A. | 2006 AMS National Meetings: SIAM Minisymposium on Numerical Solution of Partial Differential Equations and Applications to Flow in Porous Media |
| 43 | Ngai-Ching Wong | 93/07/02 | 93/07/03 | Hong Kong, Tianjin, China | Workshop on Linear Preserver Problem |
| 44 | Ngai-Ching Wong | 93/09/05 | 93/09/08 | Kyoto, Japan | International Workshop on Nonlinear Analysis and Convex Analysis |
| 45 | Ngai-Ching Wong | 93/12/17 | 93/12/22 | Hong Kong, China | International Congress of Chinese Mathematicans 2004 |
| 46 | Ngai-Ching Wong | 94/05/05 | 94/05/07 | Hong Kong, China | Workshop on Preserver Problems |
| 47 | Ngai-Ching Wong | 94/07/22 | 94/07/26 | Xian, China | The First International Operator Algebra and Operator Theory Symposium |
| 48 | Ngai-Ching Wong | 95/05/15 | 95/05/20 | Edwardsville, U.S.A. | The fifth Conference on Function Spaces |
| 49 | Ngai-Ching Wong | 95/07/11 | 95/07/15 | Hunagshan in Province Anhui, China | International Conference on Operator Theory and Applications |
| 50 | Li-Da Tong | 95/06/25 | 95/06/28 | Victoria, Canada | SIAM Conference On Discrete Mathematics |
| 51 | Jhishen Tsay | 92/10/22 | 92/10/26 | Philippines | 5th Sino-Philippne Symposium in Analysis |
| 52 | Chin-San Lee | 93/06/06 | 93/07/03 | San Diego, U.S.A. | |

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|----|---------------------|----------|----------|-----------------------------------|---|
| 53 | Chun-Kong Law | 93/06/16 | 93/06/21 | Shanghai, China | The 2nd International Conference on Inverse Problems |
| 54 | Chun-Kong Law | 93/07/03 | 93/07/05 | Stockholm, Switzerland | 4ECM Satellite Conference: Spectrum and Quantum Mechanics |
| 55 | Chun-Kong Law | 94/01/31 | 94/02/03 | Osaka, Japan and Hong Kong, China | The 5th East Asia Conference on Partial Differential Equations |
| 56 | Chun-Kong Law | 95/05/15 | 95/05/19 | Wuhan, China | The Sixth East Asia PDE Conference |
| 57 | Chun-Kong Law | 95/12/14 | 95/12/15 | Hong Kong, China | Workshop on Functional Analysis and Optimization Theory |
| 58 | Mong-Na Lo Huang | 93/07/21 | 93/07/23 | Singapore | The 6th ICOSA International Conference |
| 59 | Mong-Na Lo Huang | 93/07/25 | 93/07/28 | Beijing, China | The First International Conference on Design of Experiment |
| 60 | Mong-Na Lo Huang | 93/08/16 | 93/08/17 | Lanzhou, China | The 4th two sides of straits statistics and probability conference |
| 61 | Mong-Na Lo Huang | 94/07/24 | 94/07/28 | Oslo, Norway | 25th European Meeting of Statisticians |
| 62 | Mong-Na Lo Huang | 94/08/19 | 94/08/22 | Hunan, China | 2005 International Uniform Design Conference |
| 63 | Mong-Na Lo Huang | 95/07/09 | 95/07/13 | Tianjin, China | 2006 International Conference on Design of Experiments and its Applications |
| 64 | Mong-Na Lo Huang | 95/07/24 | 95/07/28 | Torun, Poland | 26th European Meeting of Statisticians |
| 65 | Mong-Na Lo Huang | 95/09/01 | 95/09/04 | Tomar, Lisbon, Portugal | 13th International Conference of Forum for Interdisciplinary Mathematics - Interdisciplinary Mathematical and Statistical Techniques. |

Publications

Prof. Mong-Na Lo Huang

(A) Journal Articles

1. Mong-Na Lo Huang. Exact D-optimal designs for polynomial regression. *Bulletin of the Institute of Mathematics, Academia Sinica*, 15(1):73–85, 1987. [NSYSU].
2. Mong-Na Lo Huang and William J. Studden. Model robust extrapolation designs. *Journal of Statistical Planning and Inference*, 18:1–24, 1988. [NSYSU].
3. Wen-Jang Huang and Mong-Na Lo Huang. A single compartment quantal response model with a renewal type input processes and iid releases. *Biometrical Journal*, 31:111–121, 1989. [NSYSU].
4. Chia-Tsung Horng, Wen-Jang Huang, and Mong-Na Lo Huang. A single compartment quantal response model with an inspection process. *Biometrical Journal*, 32:985–1004, 1990. [NSYSU].
5. Mong-Na Lo Huang. Optimal extrapolation designs for a partly linear model. *Computational Statistics and Data Analysis*, 10(2):105–119, 1990. [NSYSU].
6. ÉÍ., 10_, ?úC, St_. \$ _C±>Eè.'²Á(_&aPyPÝ"D. _»Ü.. , 28:1–24, 1990. [NSYSU].
7. Mong-Na Lo Huang and Miao-Kuan Huang. A parameter-elimination method for nonlinear regression with linear parameters and autocorrelated errors. *Biometrical Journal*, 33:937–950, 1991. [NSYSU].
8. 10_,]æ.. :¼éÃ.½BV□ÝÜ.5.. _»Ü.. , 30:1–20, 1992. [NSYSU].
9. Mong-Na Lo Huang and Ming-Chun Hsu. Marginally restricted linear-optimal designs. *Journal of Statistical Planning and Inference*, 35:251–266, 1993. [NSYSU].
10. W_ü, 10_. 94P]hýlî_Ñ)D-tÊ'.. _»Ü.. , 32:517–540, 1994.[NSYSU].
11. Shun-Hwa Li, Wen-Jang Huang, and Mong-Na Lo Huang. Characterizations of the Poisson process as a renewal process via two conditional moments. *Annals of the Institute of Statistical Mathematics*, 46:351–360, 1994. [NSYSU].
12. Mong-Na Lo Huang, Fu-Chuen Chang, and Weng Kee Wong. D-optimal designs for polynomial regression without an intercept. *Statistica Sinica*, 5:441–458, 1995. [NSYSU].
13. Mong-Na Lo Huang and Hsiu-Fen Chang. Marginally restricted constrained optimal designs. *Sankhy* – a B, 57:128–141, 1995. [NSYSU]
14. Hung Chen, Mong-Na Lo Huang, and Wen-Jang Huang. Estimation of the location of the maximum of a regression function using extreme order statistics. *Journal of Multivariate Analysis*, 57:191–214, 1996. [SCI, NSYSU](1999 Impact Factor: 0.359).
15. JYÍ, 10_, ç_, W_F, □uß. Té%_P-R ÝÜ.5. _ylÝ.ñ. _»Ü.. , 35:1–25, 1997. [NSYSU].
16. Zhidong Bai and Mong-Na Lo Huang. On consistency of the best-r-points average estimator for the maximizer of a nonparametric regression function. *Sankhy* – a A, 61:208– 217, 1999. [NSYSU].
17. Holger Dette and Mong-Na Lo Huang. Convex optimal designs for compound polynomial

- extrapolation. *Annals of the Institute of Statistical Mathematics*, 52:557–573, 2000. [SCIE,NSYSU](2000 Impact Factor:).
18. Ray-Bing Chen and Mong-Na Lo Huang. Exact D-optimal designs for weighted polynomial model. *Computational Statistics and Data Analysis*, 33:137–149, 2000. [SCIE,NSYSU](2000 Impact Factor:).
 19. Lei Yang, Wen-Shi Chang, and Mong-Na Lo Huang. Natural disinfection of wastewater in marine outfall fields. *Water Research*, 34:743–750, 2000. [SCI, NSYSU](2000 Impact Factor: 1.285).
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Visiting Professors

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| 1 | Prof. Hung Chen | State University of New York at Stony Brook | 77/7/4 | 77/8/4 | |
| 2 | Prof.. J S. Huang | Univ. of Guelph, Ontario, Canada | 79/2/16 | 79/4/30 | |
| 3 | Prof. William W. S. Wei | Dept. of Stat., Temple, USA | 79/7/1 | 79/7/31 | |
| 4 | Prof.. J S. Huang | Univ. of Guelph, Ontario, Canada | 80/5/1 | 81/4/30 | |
| 5 | Prof. Tze-Chien Sun | Dept. of Math., Wayne State | 80/5/8 | 80/8/7 | |
| 6 | Prof. Hung Chen | State University of New York at Stony Brook | 81/1/13 | 81/12/31 | |
| 7 | Dr. Shean-Tsong Chiu | Dept. of Stat., Colorado, USA | 81/5/16 | 81/7/16 | |
| 8 | Prof. Jong-Shi Pang | Dept. of Math., Johnhopskins, USA | 81/7/1 | 81/8/31 | |
| 9 | Prof. Ka-Sing Lau | University of Pittsburg, USA | 82/5/1 | 82/5/8 | |
| 10 | Prof. Chung Laung Liu | University of Illinois at Urbana-Champaign, USA | 82/5/8 | 82/5/12 | |
| 11 | Prof. Hun-Guai Liu | National Institute of Standard and Technology, USA | 82/7/4 | 82/7/14 | |
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| 13 | Prof. Cho-Ho Chu | University of London, UK | 82/12/1 | 82/12/7 | Ngai-Ching Wong |

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| 14 | Prof. Yo-Chun Huang | The Chinese University of Hong Kong | 82/12/6 | 82/12/12 | Ngai-Ching Wong |
| 15 | Prof. Koshi, Shozo | Utsunomiya University, Japan | 82/12/8 | 82/12/17 | Ngai-Ching Wong |
| 16 | Prof. Zhi Dong Bai | Dept. of Stat., Temple, USA | 83/10/1 | 86/7/31 | |
| 17 | Prof. Bryce McLeod | University of Pittsburg, USA | 83/11/1 | 83/12/19 | Chun-Kong Law |
| 18 | Prof. J. W. Silverstein | North Carolina State University, USA | 83/12/10 | 84/1/10 | |
| 19 | Prof. Ka-Sing Lau | University of Pittsburg, USA | 84/1/4 | 84/4/3 | Chun-Kong Law |
| 20 | Prof. Cho-Ho Chu | University of London, UK | 84/1/5 | 84/1/9 | Ngai-Ching Wong |
| 21 | Prof. T. D. Bui | Concordia University - Montreal, Quebec, Canada - | 84/2/24 | 84/2/27 | |
| 22 | Prof. J. G. Babu | Pennsylvania State University, USA | 84/6/15 | 84/6/30 | |
| 23 | Prof. Wei-Yann Tsai | University of Columbia, USA | 84/7/1 | 84/8/15 | |
| 24 | Prof. Xuding Zhu | University of Calgary, CANADA | 84/10/1 | 86/1/31 | D. J. Guan |
| 25 | Prof. Bingren Li | Chinese Academy of Sciences | 84/10/25 | 85/2/24 | Ngai-Ching Wong |
| 26 | Prof. J. W. Silverstein | University of North Carolina, USA | 84/12/28 | 84/12/30 | |
| 27 | Prof. Z-C Shi | Chinese Academy of Sciences | 85/2/26 | 85/3/25 | Zi-Cai Li |
| 28 | Prof. B-Q Miao | University of Science and Technology, China | 85/2/27 | 85/6/26 | |
| 29 | Prof. Jin-Huai Li | The University of Sydney, Australia | 85/4/4 | 85/4/9 | Ngai-Ching Wong |
| 30 | Prof. Bin Yu | University of California-Barkley, USA | 85/7/14 | 85/7/20 | |

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| 32 | Prof. P. Hell | University of Simon Fraser, Canada | 85/11/24 | 85/11/30 | |
| 33 | Prof. Song Wang | Curtin University of Technology, Australia | 86/1/11 | 86/2/7 | |
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| 35 | Prof. Hong-Zhi An | Chinese Academy of Sciences | 86/4/29 | 86/5/29 | |
| 36 | Prof. Suen, Ching-yee | Concordia University - Montreal, Quebec, Canada | 87/2/14 | 87/2/19 | |
| 37 | Prof. Leizhen Tsai | The Chinese University of Hong Kong | 87/3/15 | 87/3/28 | |
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| 40 | Prof. Song Wang | Curtin University of Technology, Australia | 87/12/19 | 87/12/26 | |
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| 42 | Prof. Wolfgang Bischoff | University of Karlsruhe, Germany | 88/3/4 | 88/3/30 | |
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| 44 | Prof. Jen-Chih Yao | The Hong Kong Polytechnic University | 88/8/16 | 88/8/27 | Jen-Chin Yao |
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| 47 | Prof. Adam Stanislaw Idzik | Polish Academy of Sciences | 89/2/27 | 89/3/18 | Jen-Chin Yao |

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| 49 | Prof. Gheorghe Isac | Canada | 89/5/2 | 89/5/22 | |
| 50 | Prof. Claude Tardif | Univ. of Regina, Canada | 89/5/11 | 89/5/24 | |
| 51 | Prof. Luming Zhang | Chinese Academy of Sciences | 89/6/20 | 89/7/4 | |
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| 54 | Prof. Da-Fan Liu | California State University, USA | 89/12/13 | 89/12/21 | Xuding Zhu |
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| 65 | Dr. Reza Naserasr | Simon Fraser University | 90/9/2 | 90/10/30 | Xuding Zhu |
| 66 | Prof. Zhang-Jin, Ruan | University of Illinois at Urbana-Champaign | 90/9/22 | 90/10/5 | Ngai-Ching Wong |

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| 127 | Prof. Claude Tardif | Royal Military College | 94/12/19 | 94/12/27 | Xuding Zhu |
| 128 | Prof. Douglas West | University of Illinois, Urbana | 94/12/19 | 94/12/22 | Xuding Zhu |
| 129 | Prof. Hong-Kun Xu | Mathematical Sciences, University of Kwazulu Natal, South Africa | 94/12/20 | 94/12/22 | |
| 130 | Prof. Huang Guangming | Retired | 95/1/2 | 95/1/6 | Xuding Zhu |
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| 134 | Prof. Yang Daqing | Fuzhou University, China | 95/1/19 | 95/2/20 | Xuding Zhu |
| 135 | Prof. Shi-San Zheng | Sichuan University, China | 95/2/7 | 95/3/5 | Jen-Chin Yao |

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