



北京大學
PEKING UNIVERSITY

Pure Math at School of Math Zihua Guo





History

- 1898 Peking University
- 1904 Math department
- 1913 Math admission
- 1952 University Reorganized
(new math department: Peking, Tsinghua, Yenching)



Current stage: staff

38 Professors + **17** Associate Professors + **3** Assistant Professors

Analysis: 6+6+1

Geometry and Topology: 9+2+0

Algebra and number theory: 6+6+1

Differential equations: 11+0+0

Mathematical physics: 6+3+1



Honors

- **5** Fellows of Chinese Academy of Sciences
Kung-Ching Chang, Boju Jiang,
Gang Tian, Shichen Wang, Lan Wen
- **10** Distinguished Scholar grant
(ARC future fellow)



Honors

- ICM speaker

plenary: Gang Tian 2002

Inviting:

Gang Tian 1990 Kung-ching Chang 1994

Weiyue Ding 2002 Shichen Wang 2002

- 2015 AMS Levi L. Conant Prize

Chuanming Zong



Recent Top journal publications

- Huijun Fan (with T. Jarvis, Y. Ruan) **Annals of mathematics** 2013
- Qi'an Guan (with Xiangyu Zhou) **Annals of mathematics** 2014
- Qi'an Guan (with Xiangyu Zhou) **Annals of mathematics** 2015
- Qi'an Guan (with Xiangyu Zhou) **Inventiones Mathematicae** 2014
- Gang Tian (with Bing Wang) **J. Amer. Math. Soc** 2015



Current stage: students

Each year, pure math students

- Undergraduate: 20-30 among ~160
- PhD: 20 among ~50



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Research: Analysis

- Nonlinear analysis, Harmonic analysis, Complex analysis

Kung-Ching Chang

Nonlinear analysis

Fellow of Chinese Academy of Sciences

Fellow of Third world academy of sciences

Shiing-shen Chern prize





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Research: Analysis

Xiaohua Zhu

Geometric analysis

Distinguished scholar grant

National Natural Science Award (2nd class)

(with Gang Tian) J. Amer. Math. Soc 2007

(with Gang Tian) Acta Math. 2000





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Research: Analysis

Qi'an Guan

Complex analysis

(with X. Zhou) 2 papers in Annals of Math

(with X. Zhou) 1 paper in Invent. Math





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Research: Geometry and Topology

Gang Tian

Geometry

Fellow of American Academy of Arts and Sciences

Fellow of Chinese Academy of Sciences

Alan Waterman Award

Veblen Prize in Geometry





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Research: Geometry and Topology

Geometric analysis, Topology

Boju Jiang

Topology

Fellow of Chinese Academy of Sciences

Fellow of Third-world academy of Sciences

Shiing-shen Chern prize





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Research: Geometry and Topology

Shichen Wang

Topology

Fellow of Chinese Academy of Sciences

Collaboration with Prof. Rubinstein





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Research: Geometry and Topology

Jiajun Wang

Topology

Distinguished Scholar grant 2014

(with S. Sarkar) Annals of Math 2010





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Research: algebra and number theory

Chuanming Zong

Sphere packing, Geometry of numbers

2015 AMS Levi L. Conant Prize

National Natural Science Award (2nd)

Shiing-shen Chern prize 2007

Distinguished scholar grant 2002





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Research: Differential equations

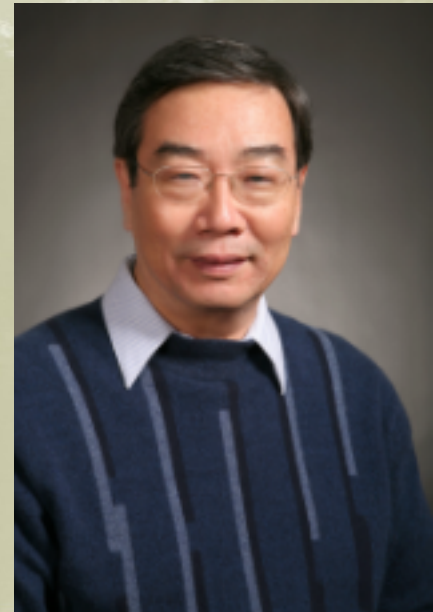
Lan Wen

Differential Dynamical system

Fellow of Chinese Academy of Sciences

Fellow of Third world academy of sciences

Hua loo-Keng prize





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Research: Differential equations

Shaobo Gan

Dynamical system

Distinguished scholar grant





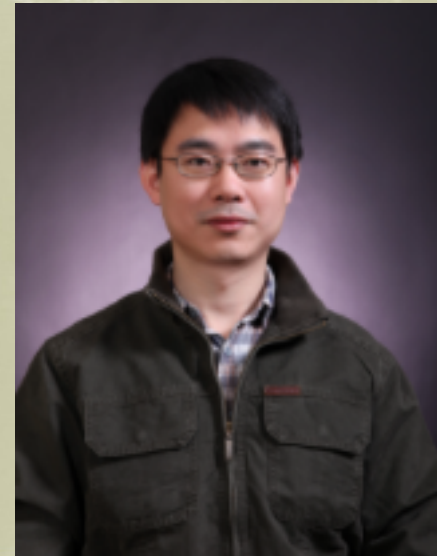
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Research: Differential equations

Zhifei Zhang

PDEs in fluid dynamics

Distinguished Scholar grant





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Research: Mathematical physics

Huijun Fan

Symplectic geometry

Distinguished scholar grant

(with T. Jarvis, Y. Ruan) Annal. Math 2014





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Teaching: undergraduate

Courses: complete course system

Seminar:

analysis seminar

algebra seminar

Research program fund



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Teaching: graduate

Courses: about 13/semester

Seminars

Workshop fund



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Thank you

