

# 上海交通大学数学科学学院

## 2018 年博士生导师及招生专业和研究方向

(排名按照导师英文姓名首字母顺序)

### Supervisors for 2018 Ph. D. Program

### School of Mathematical Sciences, Shanghai Jiao Tong University

(listed alphabetically according to the name of supervisors)

1	陈昕 / 特别研究员 Xin CHEN /Special Researcher	统计学 Statistics	随机分析(泛函不等式, 无穷维随机分析, 随机方法在几何与偏微分方程中的应用) Stochastic Analysis(Functional Inequality, Stochastic Analysis on Infinite Dimensional Space, the Application of Stochastic Methods on Geometry and Partial Differential Equation)
2	Samuel DRAPEAU /特别研究员 Special Researcher	统计学 Statistics	金融数学、随机过程和泛函分析 Mathematical Finance; Stochastic Processes and Functional Analysis
3	范金燕 / 教授 Jinyan FAN /Professor	计算数学 Computational Mathematics	最优化方法(非线性优化理论和方法) Optimization Methods (Nonlinear Optimization Theory and Methods)
4	费佳睿/特别研究员 Jiarui FEI/ Special Researcher	基础数学 Pure Mathematics	Cluster Algebra, Quiver Representation, Invariant Theory
5	韩东 / 教授 Dong HAN /Professor	统计学 Statistics	概率统计(统计过程控制、随机图与复杂网络、金融统计) Probability Theory and Statistics (Statistical Process Control; Random Graph and Complex Networks; Financial Statistics)
6	胡丹 / 教授 Dan HU /Professor	计算数学 Computational Mathematics	计算数学与生物数学(计算方法、数学建模) Computational Mathematics and Mathematical Biology (Numerical Methods; Mathematical Modeling)
7	黄建国 / 教授 Jianguo HUANG /Professor	计算数学 Computational Mathematics	数值分析(有限元方法与应用、快速算法、反问题数值解) Numerical Analysis (Finite Element Methods with Applications; Fast Algorithms; Numerical Solutions for Inverse Problems)
8	姜翠波 / 教授 Cuipo JIANG /Professor	基础数学 Pure Mathematics	代数学(李代数和顶点算子代数) Algebra (Lie Algebras and Vertex Operator Algebras)
9	金石 / 讲席教授 Shi JIN/Chair Professor	计算数学 Computational Mathematics	计算与应用数学 Computational and Applied Mathematics

10	来米加 / 特别研究员 Mijia LAI /Special Researcher	基础数学 Pure Mathematics	几何分析与偏微分方程（几何偏微分方程，复几何，二阶椭圆偏微分方程正则性）Geometric Analysis and Partial Differential Equations (Geometric PDEs, Complex Geometry, Regularity Theory of Second Order Elliptic PDEs)
11	李从明 / 讲席教授 Congming LI /Chair Professor	应用数学 Applied Mathematics	偏微分方程与几何分析（几何分析、流体力学、非线性偏微分、变分法、非线性分析）Partial Differential Equations and Geometric Analysis (Geometric Analysis; Dynamics of Fluid; Nonlinear Partial Differential Equations; Calculus of Variations, Nonlinear Analysis)
12	李红泽 / 教授 Hongze LI /Professor	基础数学 Pure Mathematics	数论（解析数论）Number Theory (Analytic Number Theory)
13	李敬来 / 特别研究员 Jinglai LI /Special Researcher	统计学 Statistics	科学计算与计算统计（不确定性量化，贝叶斯推断，统计反问题，数据同化，稀有事件仿真）Scientific Computing and Computational Statistics(Uncertainty Quantification; Bayesian Inference; Statistical Inverse Problem, Data Assimilation, Rare Events Simulation,)
14	李亚纯 / 教授 Yachun LI /Professor	应用数学 Applied Mathematics	偏微分方程及其应用（双曲型守恒律，退化抛物-双曲方程，流体力学中的非线性偏微分方程）Partial Differential Equations and Their Applications (Hyperbolic Conservation Laws; Degenerate Parabolic-hyperbolic Equations; Nonlinear Partial Differential Equations in Fluid Dynamics)
15	梁进 / 教授 Jin LIANG /Professor	基础数学 Pure Mathematics	分析（泛函分析与微分方程，非线性分析与控制理论）Analysis (Functional Analysis and Differential Equations; Nonlinear Analysis and Control Theory)
16	林一青/特别研究员 Yiqing LIN/ Special Researcher	统计学 Statistics	金融数学与金融工程（资产定价与风险管理）/随机分析/非线性概率统计理论 Mathematical Finance and Financial Engineering (Asset Pricing and Risk Management)/Nonlinear Probability theory and Statistics/Stochastic Analysis
17	刘卫东 / 教授 Weidong LIU /Professor	统计学 Statistics	概率论与数理统计 Probability and Mathematical Statistics
18	麻志浩 / 教授 Zhihao MA /Professor	应用数学 Applied Mathematics	量子信息、量子力学、算子理论、算子代数、矩阵论 Quantum Information; Quantum Mechanics; Operator Theory; Operator Algebra; Matrix Theory

19	牛一帅 / 特别研究员 Yishuai NIU /Special Researcher	计算数学 Computational Mathematics	最优化理论和算法 Optimization Theory and Algorithms
20	彭实戈 / 院士 Shige PENG /Academician	统计学 Statistics	金融数学和概率统计、随机控制 Mathematical Finance and Probability Theory and Statistics; Stochastic Controls
21	Tudor Stefan RATIU /讲席教授 Chair Professor	基础数学 Pure Mathematics	几何力学、哈密尔顿动力学 Geometric Mechanics ; Hamiltonian Dynamics
22	戎锋 / 教授 Feng RONG / Professor	基础数学 Pure Mathematics	复分析与动力系统 (多变量复分析与复动力系统, 常微分方程定性理论) Complex Analysis and Dynamical Systems (Complex Analysis and Dynamics in Several Variables; Qualitative Theory of Ordinary Differential Equations)
23	唐敏 / 特别研究员 Min TANG /Special Researcher	应用数学 Applied Mathematics	计算数学和生物数学 (运输方程, 反应扩散方程的数值求解和生物建模) Computatioal Mathematics and Mathematical Biology(Transport Equations and Reaction Diffusion Equations, Their Numerical Schemes and Biology Modeling)
24	王芳 / 特别研究员 Fang WANG / Special Researcher	基础数学 Pure Mathematics	几何分析和偏微分方程, 相对论方程 Geometric Analysis and PDEs, General Relativity
25	王维克 / 教授 Weike WANG /Professor	应用数学 Applied Mathematics	偏微分方程及其应用 (多维双曲-抛物耦合型方程, 非线性微局部分析) Partial Differential Equations and Their Applications (Multi-dimensional Hyperbolic-parabolic Coupled Equations; Nonlinear Micro-local Analysis)
26	王亚光 / 教授 Yaguang WANG /Professor	应用数学 Applied Mathematics	偏微分方程理论及其应用 (双曲型、双曲-抛物耦合型方程, 流体力学方程组的数学理论, 波的稳定性分析) Partial Differential Equations and Their Applications (Hyperbolic Equations; Hyperbolic-parabolic Coupled Equations; Mathematical Theory of Fluid Mechanics; Stability Analysis of Nonlinear Waves)
27	魏星 / 特别研究员 Xing WEI/Special Researcher	应用数学 Applied Mathematics	流体力学及其应用 Hydromechanics and Their Applications
28	武同锁 / 教授 Tongsuo WU /Professor	基础数学 Pure Mathematics	环与代数 (同调代数, 组合交换代数) Rings and Algebra (Homological Algebra; Combinatorial Commutative Algebra)
29	吴耀琨 / 教授 Yaokun WU / Professor	基础数学 Pure Mathematics	组合学 (算法图论、离散动力系统、代数组合) Combinatorics

			(Algorithmic Graph Theory; Discrete Dynamical System; Algebraic Combinatorics)
30	肖冬梅 / 教授 Dongmei XIAO /Professor	应用数学 Applied Mathematics	常微分方程与动力系统 (微分方程分支理论及其应用) Ordinary Differential Equations and Dynamical System (Bifurcation Theory and Its Application)
31	谢春景 / 特别研究员 Chunjing XIE /Special Researcher	应用数学 Applied Mathematics	偏微分方程 (流体力学的数学理论, 广义相对论的数学理论) Partial Differential Equations (Mathematical Theory of Fluid Mechanics; Mathematical Theory of General Relativity)
32	谢峰/ 教授 Feng XIE / Professor	应用数学 Applied Mathematics	偏微分方程及其应用 Partial Differential Equations and Their Applications
33	许德良 / 教授 Deliang XU /Professor	基础数学 Pure Mathematics	几何分析 (几何中的非线性偏微分方程, 诸如调和映射, 极小曲面等) Geometry (Harmonic Map, Minimal Surface and Related Analysis from a Measure Class Viewpoint) 非线性偏微分方程及应用 (非线性椭圆型偏微分方程, 粘性解, 变分法) Partial Differential Equations and Applications (Nonlinear Elliptic Equation, Variational Method and Application)
34	徐振礼 / 教授 Zhenli XU / Professor	计算数学 Computational Mathematics	计算与应用数学 (偏微分方程数值方法, 物理和生物中的应用数学方法) Computational and Applied Mathematics (Numerical Methods for PDEs, Applied Mathematics in Physics and Biology)
35	杨义虎 / 教授 Yihu YANG / Professor	基础数学 Pure Mathematics	几何 (微分几何, 复几何) Geometry (Differential Geometry, Complex Geometry)
36	应文俊 / 特别研究员 Wenjun YING /Special Researcher	计算数学 Computational Mathematics	计算数学 (偏微分方程, 边界积分方程数值解, 自适应网格划分算法, 快速算法) Computational Mathematics (Numerical Solution of Partial Differential and Boundary Integral Equations; Adaptive Mesh Refinement and Fast Algorithms)
37	于江 / 教授 Jiang YU /Professor	应用数学 Applied Mathematics	常微分方程与动力系统 (常微分方程定性、分岔理论及其应用) Ordinary Differential Equations and Dynamical System (Qualitative Theory, Bifurcation Theory of ODE and Its Application)
38	虞国富 / 教授 Guofu YU /Professor	基础数学 Pure Mathematics	常微分方程与动力系统(可积系统, 孤立子理论, 正交多项式) Ordinary Differential Equations and Dynamical System (Integrable systems, Soliton theory and Orthogonal polynomials)

39	张镭 / 特别研究员 Lei ZHANG / Special Researcher	计算数学 Computational Mathematics	计算与应用数学（数值分析与科学计算，多尺度建模，分析与模拟及其在科学与工程中的应用） Computational and Applied Mathematics (Numerical Analysis and Scientific Computing; Multiscale Modeling, Analysis and Simulation with Applications in Science and Engineering)
40	章璞 / 教授 Pu ZHANG / Professor	基础数学 Pure Mathematics	代数学（代数表示论，三角范畴与导出范畴）Algebra (Representation Theory of Algebras; Triangulated Categories and Derived Categories)
41	张祥 / 教授 Xiang ZHANG /Professor	基础数学 Pure Mathematics	常微分方程与动力系统（定性理论与分支理论，可积理论，奇异摄动理论）Ordinary Differential Equations and Dynamical System (Qualitative Theory and Bifurcation; Integrability; Singular Perturbation)
42	张晓东 / 教授 Xiaodong ZHANG /Professor	应用数学 Applied Mathematics	图论与组合学（图论与复杂网络，组合矩阵论）Graph and Combinatorics (Graph and Complex Network; Combinatorial Matrix Theory)
43	张小群 / 特别研究员 Xiaoqun ZHANG /Special Researcher	应用数学 Applied Mathematics	计算与应用数学（数学图像处理与分析，最优化理论与算法）Computational and Applied Mathematics (Mathematical Imaging Processing; Optimization Theory and Algorithms)
44	周春琴 / 教授 Chunqin ZHOU /Professor	基础数学 Pure Mathematics	偏微分方程（二阶椭圆方程的存在性和正则性理论）Partial Differential Equations (The Existence and Regularity Theory of Second EllipticEquation)
45	周栋焯 / 教授 Dongzhuo (Douglas)ZHOU / Professor	计算数学 Computational Mathematics	计算与应用数学（理论与计算神经科学） Computational and Applied Mathematics (Theoretical and Computational Neuroscience)
46	朱苗苗 / 特别研究员 Miaomiao ZHU /Special Researcher	基础数学 Pure Mathematics	几何分析，几何和物理中的变分问题，几何流问题 Geometric analysis, Variational problems in Geometry and Physics, Geometric evolution problems
47	朱佐农 / 教授 Zuonong ZHU /Professor	应用数学 Applied Mathematics	数学物理（可积系统和孤立子）Mathematical Physics (Integrable Systems and Solitons)