

NTU Supervisors & Projects

Division of Mathematical Sciences (MAS)

Supervisor	Email Contact	Research areas of potential PhD studies
Prof Ling San	lingsan@ntu.edu.sg	Applications of algebra and number theory to combinatorial designs, coding theory, cryptography and sequences. Arithmetic of modular curves and Galois representations.
Assoc Prof Schmidt Bernhard	bernhard@ntu.edu.sg	Finite Geometry, Coding Theory, Algebraic Number Theory and Computing
Assoc Prof Tai Xue-Cheng	xctai@ntu.edu.sg	Image processing, Computational Mathematics, Inverse problems, Level set methods, Convex Analysis and Optimisation
Assoc Prof Wang Huaxiong	hxiwang@ntu.edu.sg	Cryptograph, Information Security, Combinatorics, Coding Theory and Theoretical Computer Science
Asst Prof Chan Song Heng	chansh@ntu.edu.sg	Number Theory, Combinatorics and Special Functions
Asst Prof Chen Xin	chenxin@ntu.edu.sg	Bioinformatics, microbial genomics, computational biology, data compression, algorithm design and analysis, machine learning and information theory
Asst Prof Chua Chek Beng	cbchua@ntu.edu.sg	Primal-dual interior-point methods for convex optimization. Algebraic structure of convex cones with emphasis in optimization. Represent ability of convex cones and reducibility of convex optimization problems.
Asst Prof Kricker Andrew	ajkricker@ntu.edu.sg	Low-dimensional topology, Topological invariants associated with quantum field theory, Lie algebras and Quantum computation
Asst Prof Li Guodong	gdli@ntu.edu.sg	Time series analysis, Econometrics, Regression shrinkage and selection, Least absolute deviation approach
Asst Prof Lian Heng	henglian@ntu.edu.sg	Statistical Genetics, Bayesian Statistics and Functional Data Analysis
Asst Prof Pasechnik Dmitrii V	dima@ntu.edu.sg	Combinatorics, algebra, algebraic geometry, mathematical programming, group theory, computer algebra, symbolic computing and computational complexity
Asst Prof Wang Desheng	desheng@ntu.edu.sg	Finite Element Method, Mesh Generation & Centroidal Voronoi Tessellation, Computational Electromagnetics and Adaptive method for time-dependent computational physics
Asst Prof Wang Li-Lian	lilian@ntu.edu.sg	Spectral methods: algorithms, analysis and applications. Triangular spectral-element methods for PDEs in complex geometries. Computational Fluid dynamics and computational electromagnetic.
Asst Prof Wu Guohua	guohua@ntu.edu.sg	Computability, Complexity and Logic
Asst Prof Xiang Liming	lmxiang@ntu.edu.sg	GLMM, Mixture Model, Survival Analysis and Influence

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		Diagnostics & Robust Estimation
Asst Prof Zhao Liangyi	lzhao@pmail.ntu.edu.sg	Analytic Number Theory, Theory of Large Sieve, Mean-Value Type Theorems, Exponential and Character Sums, Automorphic Forms, Elliptic Curves Harmonic Analysis, Functional Analysis
Assoc Prof Chee Yeow Meng	Ymchee@ntu.edu.sg	Combinatorics of nanotechnology, Designs, codes and cryptography, Extremal set systems
Asst Prof Fu Haifeng	HFFU@ntu.edu.sg	Game Theory, Mathematical Economics, Mathematical Finance, Statistics
Asst Prof Viet Ha Hoang	vhhoang@ntu.edu.sg	Multiscale problems, Numerical Analysis, Probability, Applications in solid and fluid mechanics
Asst Prof Frederique Oggier	Frederique@ntu.edu.sg	Applications of algebra and number theory, coding theory, secure communication
Asst Prof Pan Guangming	gmpan@ntu.edu.sg	Random matrices theory, multivariate analysis, applications of probability
Asst Prof Pang Zhen	ZPang@ntu.edu.sg	Developmental Toxicity Analysis, Clustered/Longitudinal Data Analysis, Mixed Effects Model, Kernel Smoothing, Survey Methodology
Assoc Prof Sinai Robins	RSINAI@ntu.edu.sg	Discrete geometry and computational geometry, with an emphasis on polytopes, Combinatorial geometry from the Fourier analytic perspective Analytic number theory and modular forms Secure communications and cryptography
Prof Xing Chaoping	xingcp@ntu.edu.sg	Coding Theory, Cryptography, Number Theory, Algebraic Curves over Finite Fields, Quasi-Monte Carl Methods

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