Kai Fu

Curriculum Vitae

Education

2022–present	**Ph.D in Mathematics**, *IMB, Université de Bordeaux.*
2020–2022	**Master in Mathematics**, *Indiana University Bloomington.*
2017–2020	**Master in Mathematics**, *Nankai University.*
2013–2017	**Bachelor in Mathematics and Applied Mathematics**, *Beijing Institute of Technology.*

Publications and preprints

Uniform Length Estimates for Trajectories on Flat Cone Surfaces , 2024, eprint arXiv:2409.14188.

Bounds on saddle connections for flat spheres, *with Guillaume Tahar*, 2023, eprint arXiv:2308.08940.

In preparation

Computing the Multiscale Boundary I. Real Linear Subvarieties of Abelian and Quadratic Differentials, *with Vincent Delecroix and Bradley Zykoski.*

Siegel-Veech Measures of Convex Flat Cone Spheres.

Talks

Nov 08, 2024	**Séminaire de Systèmes Dynamiques**, *Institut de mathématiques de Toulouse*, Toulouse, France.
Oct 04, 2024	**Geometry Topoloy Grad and Postdoc Seminar**, *University of Toronto*, online.
Sep 10, 2024	**Riemann Surfaces: Random, Flat, and Hyperbolic Geometry**, *MFO*, Oberwolfach, Germany.
Oct 17, 2023	**Cours de Géométrie Algébrique et Géométrie Complexe de la fédération MARGAUx**, *Le Laboratoire de Mathématiques et Applications, Université de Poitiers Poitiers*, Poitiers, France.
Jun 08, 2023	**Student Seminar**, *YMSC, Tsinghua University*, Beijing, China.

Experience

Jun, 2023	Short Student Visiting, YMSC, Tsinghua University (3 weeks)
Apr, 2022	Student Internship, LaBRI, Université de Bordeaux (6 months)
Feb, 2022	Student Exchange Program, National Taiwan University (5 months)

Organization

Mar, 2024	Co-organization of the School on flat surfaces and interactions, Le Teich
Sep, 2023	Co-organization of the Reading group on mapping class groups, Bordeaux

Conferences

Nov,2024	Riemann Surfaces: Random, Flat, and Hyperbolic Geometry, MFO, Oberwolfach
Jun, 2024	New Frontiers in Parabolic Dynamics and Renormalization, Department of Mathematics, University of Bologna, Bologna
Jun, 2024	Rencontre GALS, Institut Camille Jordan, Lyon
Mar, 2024	School on flat surfaces and interactions, Le Teich
Jan, 2024	Sage Days 125: combinatorics, number theory, dynamical systems and geometry, Le Teich
Jan, 2024	Research School - Hodege Theory and o-minimality, CIRM, Marseille
Dec,2023	Renormalization and Visualization in Geometry, Dynamics and Number Theory, CIRM, Marseille
Nov, 2023	The floor to the junior researcher of Plato's network Insitut Fourier, Grenoble
Oct, 2023	Cours de Géométrie Algébrique et Géométrie Complexe de la fédération MARGAUx, Université de Poitiers, Poitiers
Oct, 2023	Probability and Geometry in, on and of non-Euclidian spaces, CIRM, Marseille
Jul, 2023	Renormalization and Visualization for packing, billiard and surfaces, CIRM, Marseille
Feb, 2023	Sage Days 117: combinatorics, number theory, dynamical systems and geometry, Le Teich
Sep, 2022	Combinatorics, Dynamics and Geometry on Moduli Spaces, CIRM, Marseille
May, 2022	Structures on Surfaces, CIRM, Marseille
Apr, 2022	Mini-rencontre ANR MoDiff, LaBRI, Université de Bordeaux, Bordeaux
Jun, 2021	CMI-HIMR Dynamics and Geometry Online Summer School, University of Bristol

Awards

Apr, 2021	Hazel King Thompson Scholarship, Indiana University Bloomington
Apr, 2020	Outstanding Graduate, Nankai University
Sep, 2018	China National Scholarship, Nankai University

Miscellaneous

Programming: Python, SageMath

Languages: Chinese (native), English (fluent), French (basic)