

Quang-Tuan DANG

Postdoc at ICTP

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Research Interests

Complex and Differential Geometry, geometric analysis and PDEs, more precisely, complex de Monge-Ampère equations, canonical metrics, and geometric flows

Employment

2022– **Postdoc**, *International Centre for Theoretical Physics (ICTP), Italie*

Education

2019–2022 **Doctorat de Mathématiques Fondamentales**, *LMO, Université Paris-Saclay*

Title: Pluripotential Monge-Ampère flows

Advisors: Hoang-Chinh LU & Vincent GUEDJ

2017–2019 **Master de Recherche en Mathématiques Fondamentales**, *Université Paris-Saclay*

2013–2017 **Bachelor of Education**, *Hanoi National University of Education*

Excellent, Mathematics

Publications et preprints

Hermitian null loci (avec Tat-Dat Tô), in preparation

Kähler-Einstein metrics via Bergman kernels (avec Tat-Dat Tô), in preparation

2023 *Kähler-Einstein metrics on quasi-projective manifolds* (avec Duc-Viet VU),
arXiv:2309.03858

Singularities of Chern-Ricci Flows, arXiv:2305.16461

Continuity of Monge-Ampère Potentials with Prescribed Singularities, **J. Geom. Anal.** **33**, 318 (2023).

2022 *Pluripotential Chern-Ricci Flows*, to appear in **Indiana Univ. Math. J.**

2021 *Pluripotential Monge-Ampère flows in big cohomology classes*, **J. Funct. Anal.** **282** (2022), no. 6, Paper No. 109373, 65 pp.

Continuity of Monge-Ampère Potentials in Big Cohomology Classes, **Int. Math. Res. Not. IMRN** **2022**, no. 14, 11180–11201.

Talks

Sep. 2023 Workshop: Geometric flows on complex manifolds, 11-15 Sep, Cortona (Italy)

Juin 2023 ICTP-IGAP seminar, Trieste, Italy

Fev. 2023 Complex Geometry seminar, Cologne, Germany
 Janv. 2023 Analysis Seminar, Institut de Mathematiques, VAST, Hanoi, Vietnam
 Nov. 2022 ICTP-IGAP seminar, Trieste, Italy
 Juin 2022 International Workshop, AIAS, Aarhus, Denmark
 Juin 2022 MARGE Workshop, IMAG, Montpellier, France
 Avril 2022 IGA seminar, University of Maryland, New York, United State
 Nov. 2021 Informal Workshop: Balanced metrics and Monge-Ampere masses, Parma, Italy
 Oct. 2021 Séminaire de Géométrie Complexe, IMT, Toulouse
 Juin 2021 Journée doctorale: Analyse, LMO, Orsay, France

Service

Referee for: International Mathematics Research Notices, Acta Mathematica Vietnamica, Complex Manifolds, Complex Analysis and Operator Theory, Analysis & PDE

Reviewer for MathSciNet

Teaching

2023-2024 Partial Differential Equations (9h TD)
 2022-2023 Partial Differential Equations (9h TD)
 2021-2022 Analyse 3 en L2 (TD 36h), Mathématiques en L1 (32h TD), Python (6h TP)
 2020-2021 Mathématiques en L1 (62h TD)

Languages

Vietnamese (mother tongue), Anglais (fluent), Français (fluent), Italien (intermediate), Chinois (basic)

Informatic

L^AT_EX, langue html, Python, Microsoft Office

Other interests

Vietnamese and Chinese literature

European culture: cinema, literature, music