

# Quang-Tuan DANG

International Centre for Theoretical Physics (ICTP)

Str. Costiera, 11, 34151 Trieste, TS, Italie

☎ (+39) 0402240274

✉ qdang@ictp.it

🌐 [quangtuandang.github.io/Webpage/](https://quangtuandang.github.io/Webpage/)

Postdoc at ICTP

## 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

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

2024 *Hermitian null loci*, arXiv:2404.01126v1

2023 *Kähler-Einstein metrics on quasi-projective manifolds* (with 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

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## Service

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

*Reviewer* for MathSciNet

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## 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)

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## Languages

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

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## Informatic

L<sup>A</sup>T<sub>E</sub>X, langue html, Python, Microsoft Office

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## Other interests

Vietnamese and Chinese literature

European culture: cinema, literature, music