Akash (Tooryanand) SEETOHUL



CONTACT

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Rennes, FR (35700)
(mobile across metropolitan France)

tooryanand-seetohul

LANGUES

French	Bilingual *(C2 level)*
English	Bilingual *(C2 level)*
Mauritian Creole	Native
Spanish	Beginner *(A2 level)*

SKILLS

- **Programming**
  - Python — Avanced
  - Matlab/Octave — Avanced
  - Java — Intermediate
  - Sage — Basic

  See code : github.com/AkashSeetohul
- **Research environment management**

  Organizing committee, Rennes doctoral seminar – since sept. 2025
  - Inviting and hosting PhD students from all over France.
  - Weekly coordination: speakers, logistics, communication.

INTERESTS

- **Beekeeping**
  - Owner of two beehives.
  - Member of the Ille-et-Vilaine beekeepers' union.
- **Running**
  - Run leader at GLS Running, a 60-member running club
  - Organizing biweekly group runs.

POSTDOCTORAL POSITION IN MATHEMATICAL ANALYSIS AND PDES

Expected to defend and complete my PhD in August 2027, I am looking for postdoctoral positions in PDEs/Analysis starting right after, in kinetic theory, fluids and scaling limits. Trained in dispersive/scattering effects for Vlasov models and currently working on hydrodynamic limits, I see a postdoctoral position as a natural step to deepen my expertise and broaden my research directions. I am fully prepared to submit applications at any time.

EDUCATION

UNIVERSITÉ DE RENNES — *Rennes, France*
- **PHD IN APPLIED MATHEMATICS** — **2024 - 2027**
  - Thesis title: ***On the dispersive effects of Vlasov models***
  - Specialization: Partial Differential Equations (PDEs), mathematical modeling and numerical simulation.
  - Long-time behavior of complex dynamical systems, applied to plasma physics.
  - Preprint (with E. Faou, F. Rousset): see arXiv:2609.16998
- **MASTER'S DEGREE IN FUNDAMENTAL MATHEMATICS** — **2022 - 2024**
  - Track: Analysis and Applications

DARTMOUTH COLLEGE — *Hanover, New Hampshire, USA*
- **BACHELOR OF ARTS, MATHEMATICS (LICENCE 3)** — **2018 - 2022**
  - Merit scholar - *Sheldon A. Lippe 1960 Scholarship Fund*, academic excellence scholarship in mathematics.
  - Ivy League institution - ranked 13th worldwide (U.S. News Best Global Universities 2026).

ROYAL COLLEGE PORT LOUIS — *Port Louis, Mauritius*
- **CAMBRIDGE HIGHER SCHOOL CERTIFICATE** — **2011 - 2017**
  - equivalent to the French b*accalauréat scientifique*

PROFESSIONAL - ACADEMIC EXPERIENCES

Chargé de TD - Université de Rennes (Licence 1) — *Rennes, France*
- Outils mathématiques 2 - local approximations, linear algebra — **jan - may 2026**
- Outils informatiques 1 - algorithmic complexity, Python — **jan - may 2026**
- Outils mathématiques 1 - second-order ODEs, complex numbers — **sept - dec 2025**

Teaching assistant - Dartmouth College — *Hanover, New Hampshire, USA*
- Linear algebra - matrix algebra, spectral theory — **jan - mar 2021**
- Multivariable Calculus - continuity, derivatives, optimization — **sept - nov 2019**

Research Collaboration and Academic Engagement
- **Speaker, MAPSTu thematic research school** — *Pisa, Italy* — **may 2026**
  Mathematical aspects of Plasma Physics and turbulence
- **Speaker, research seminars in PDEs and numerical analysis** — *India* — **feb - march 2026**
  IIT Bombay, ISI New Delhi, ICTS-TIFR Bangalore, IISER Trivandrum

Research internship - Laboratoire d'Analyse et de Mathématiques Appliquées (LAMA) — *Paris, France*
- Internship title: *On the Convergence of Fourier series and Kolmogorov's theorem* — **june - aug 2023**
- Supervised by: C. SUN

Research internship - Dartmouth College — *Hanover, New Hampshire, USA*
- Internship title: *Modelling a fat-tailed large-scale fluctuation in anisotropic turbulent processes* — **june - aug 2021**
- Supervised by: Y. LEE