

Calvin Khor, Ph.D.

✉ calvin_khor@hotmail.com

🌐 <https://github.com/clvnkhr/>

🌐 clvnkhr.github.io

ID Publications: orcid.org/0000-0001-7557-0786

☎ +44 (0) 7801 268 228

✉ @kamivine

Mathematician and data scientist with a passion for software and technology and an eye for detail. Strong analytical skills from four years of post-doctorates in large research groups, with multiple co-authors and publications in respected journals cited by leading experts. Constantly driven to learn and improve my understanding in statistics, programming, and computer science. Extensive experience teaching university level topics to students. Loves creating high quality technical documents.

Employment History

- 2023
—now
- 📌 **Associate Consultant.** *Digiterre Solutions Ltd, London.*
Designing and implementing Python and Databricks-based cloud solutions in the finance and energy space to migrate customers off legacy technology built around Matlab. Onboarded data to new platform for researchers to analyse.
- 2021
—2023
- 📌 **Postdoctorate Researcher.** *Computational Science Research Center, Beijing.*
Research focused on rigorous ill-posedness results in advanced PDEs in fluid dynamics, using spectral theory, harmonic analysis, and convex integration. Led discussions on new research directions for group of 20 researchers.
- 2019
—2021
- 📌 **Postdoctorate Researcher.** *Beijing Normal University, Beijing.*
Research focused on the persistence of geometrical structures in fluid dynamics using commutator estimates in Besov spaces and the energy method. Taught classes on Advanced PDE theory and microlocal analysis. Discussed and presented important research papers in the field of PDE theory.

Selected Publications

- 2023
- 📌 C. Khor, C. Miao and X. Su, *Non-uniqueness of Leray–Hopf solutions to the forced fractional Navier–Stokes equations in 3 dimensions, up to the J. L. Lions exponent.* Bull. London Math. Soc.. DOI: [10.1112/blms.12889](https://doi.org/10.1112/blms.12889)
- 2022
- 📌 C. Khor, X. Xu, *Temperature patches for the subcritical Boussinesq–Navier–Stokes system with no diffusion,* Journal of Functional Analysis, Volume 283, Issue 2, DOI: [10.1016/j.jfa.2022.109501](https://doi.org/10.1016/j.jfa.2022.109501)

Higher Education

- 2015
—2019
- 📌 **University of Warwick, Ph.D.** in Pure Mathematics. Fully funded by the ERC. Supervisor: Prof. José Rodrigo.
Thesis title: [Sharp Fronts and Almost-Sharp Fronts of A Singular Surface Quasi-Geostrophic Equation.](#)
- 2011
—2015
- 📌 **University of Warwick, MMath.** First Class Honours. (top 15 of graduating class)
First Year: 90% Second Year: 89% Third Year: 100% Fourth Year: 92%

Skills

- Languages 📌 **Fluent in English.** Conversational in Mandarin Chinese and Bahasa Malaysia.
- Coding 📌 **PYTHON, L^AT_EX, TikZ,** BEAMER, TYPST, SCALA, SQL, HTML, CSS, JAVASCRIPT, and LUA

Relevant Experience

- 2023
—2024
- 📌 Participated and [presented](#) in reading group on Machine Learning at the London South Bank University using Python, L^AT_EX, and Typst.
- 2023
- 📌 Top 2% rank in QRT 2023 prediction challenge using PYTHON data science and machine learning tools such as numpy, scipy, pandas, matplotlib, and pipelines with custom scikit-learn estimators; see [write-up](#).
- 📌 [Attended](#) Anthropic AI Hackathon on building apps with Claude 2.0 LLM.
- 📌 Contributed integer sequences [A364353](#) and [A364354](#) to the [OEIS](#).
- 2022
- 📌 Developed skills in computer science and programming via online courses by Harvard and EPFL.
- 📌 [Presented research](#) at the Peking University Beijing International Center for Mathematical Research.
- 2020
- 📌 Taught mini-course on microlocal analysis and the pseudodifferential calculus to about 20 students.
- 📌 Discussed and presented important research papers in the field of theoretical PDEs to a group of about 20 researchers at Beijing Normal University.
- 2019
- 📌 Taught course in Advanced Partial Differential Equations, teaching rigorous proofs in advanced real analysis.