

## Lista de lucrări

### Articole publicate:

1. *Well-posedness for a stochastic 2D Euler equation with transport noise*, Stoch PDE: Anal Comp, DOI: 10.1007/s40072-021-00233-7, Q1 WOS (cu D. Crisan).
2. *Analytical Properties for a Stochastic Rotating Shallow Water Model Under Location Uncertainty*, Journal of Mathematical Fluid Mechanics, DOI: 10.1007/s00021-023-00769-9, Q1 WOS (cu D. Crisan, E. Mémin).
3. *Well-posedness Properties for a Stochastic Rotating Shallow Water Model*, J Dyn Diff Equat, DOI: 10.1007/s10884-022-10243-1, Q2 WOS (cu D. Crisan).
4. *Well-posedness for the great lake equation with transport noise*, Rev. Roumaine Math. Pures Appl. 66 (2021), 1, 131–155 (cu D. Crisan).
5. *Bayesian Inference for fluid dynamics: a case study for the stochastic rotating shallow water model*, Frontiers in Applied Mathematics and Statistics, DOI: 10.3389/fams.2022.949354 (cu P. J. van Leeuwen, D. Crisan, R. Potthast).
6. *A pathwise parameterisation for stochastic transport*, Stochastic Transport in Upper Ocean Dynamics (STUOD) Proceedings 2023 by Springer Nature (cu Wei Pan).
7. *Theoretical analysis and numerical approximation for the stochastic thermal quasi-geostrophic model*, Stochastic & Dynamics, DOI: 10.1142/S02194937235003 (cu R. Mensah, D. Crisan, W. Pan, D. Holm).
8. *Existence and uniqueness of maximal solutions to SPDEs with applications to viscous fluid equations*, Stochastics and Partial Differential Equations: Analysis and Computations, DOI: 10.1007/s40072-023-00305-w, Q1 WOS (cu D. Goodair, D. Crisan).
9. Noise calibration for SPDEs: A case study for the rotating shallow water model, Foundations of Data Science, DOI: 10.3934/fods.2023012 (cu A. Lobbe, D. Crisan, P. J. van Leeuwen, R. Potthast).
10. *Comparison of Stochastic Parametrization Schemes using Data Assimilation on Triad Models*, Stochastic Transport in Upper Ocean Dynamics (STUOD) Proceedings 2024 Springer Nature (cu B. Chapron, D. Crisan, D. Holm, A. Lobbe, E. Mémin).

### Teză de doctorat:

- O. Lang, *Nonlinear stochastic transport partial differential equations: well-posedness and data assimilation*, Imperial College London, PhD Thesis (2020), DOI: 10.25560/89816.