

Augusto Del Zotto

Curriculum Vitae et Studiorum

Personal Information

Name Augusto
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Languages Italian: *native*; English: *C1 level*; Spanish: *beginner*; French: *beginner*

Education

Oct. 2020 - **PhD in Mathematics**, *Imperial College London*, London (UK).
Present Supervisor: Dr. Michele Coti Zelati
Sept. 2018 - **MSc in Mathematics**, *University of Trieste* - , Trieste (IT), 110/110 cum Laude.
Sept. 2020 Thesis: Mixing and Diffusion in Incompressible Fluids; Supervisor: Dr. Alberto Maspero
Sept. 2015 - **BSc in Mathematics**, *University of Trieste*, Trieste (IT), 110/110 cum Laude.
July 2018 Thesis: On some Properties of the Riemann Zeta Function; Supervisor: Prof. Daniele Del Santo

Publications

Papers

A. Del Zotto, *Enhanced dissipation and transition threshold for the Poiseuille flow in a periodic strip*, *SIAM J. Math. Anal.* 55 (2023), no. 5, 4410–4424, MR4641646.
<https://doi.org/10.1137/21M1444011>

Preprints

M. Coti Zelati, A. Del Zotto and K. Widmayer, *Stability of viscous three-dimensional stratified Couette flow via dispersion and mixing*, arXiv e-prints (Feb. 2024), arXiv:2402.15312.

M. Coti Zelati and A. Del Zotto, *Suppression of lift-up effect in the 3D Boussinesq equations around a stably stratified Couette flow*, arXiv e-prints (Sep. 2023), arXiv:2309.06426.

Talks

February 2024 Talk at the conference "Turbulence on the Banks of the Arno" - Scuola Normale Superiore, Pisa (IT).
January 2024 Talk at the workshop "Fluids in Seoul 2024" - June E Huh Center for Mathematical Challenges (HCMC), Seoul (KR).
October 2023 Talk at the conference "Mathematical aspects of geophysical flows" - IAC-CNR Rome (IT).
June 2023 Short talk at the summer school "New trends in mathematical fluid dynamics" - Université Grenoble Alpes (FR).
May 2022 Talk at the Junior Analysis and PDE Seminar - University of Cambridge (UK).

Prizes

November 2023 "Doris Chen PhD Merit Award" - Imperial College London, London (UK)

Professional Service

July 2023 Co-organizer of the summer school and conference "Stability and dynamics in fluid mechanics and kinetic theory", Imperial College London - London, (UK)

Oct. 2022 - Present Co-organiser of the "Junior Analysis Seminar", Imperial College London - London, (UK)

Additional Information

Scholarships

Oct. 2020 Winner of Admin Roth scholarship founded by Imperial College London for PhD students in Mathematics - London, (UK)

Sept. 2018 Winner of one of the six (ranked first) SISSA scholarships for the master's degree in Mathematics - Trieste, (IT)

Sept. 2015 Winner of one of the forty national INdAM scholarships for bachelor's degree in Mathematics (Istituto Nazionale di Alta Matematica) - Roma, (IT)

Tutoring Activities

Oct. 2021 - Mar. 2023 **GTA Tutor for Analysis 2 course**, *Imperial College London - Department of Mathematics*, Analysis 2.

Oct. 2020 - Mar. 2023 **GTA Tutor for Analysis 1 course**, *Imperial College London - Department of Mathematics*, Analysis 1.

Oct. 2019 - Jan. 2020 **Tutor for Analysis 1 course**, *University of Trieste - Department of Mathematics and Geosciences*, Analysis 1 - Prof. Alessandro Fonda.

Mar. 2019 - June 2019 **Tutor for Analysis 2 course**, *University of Trieste - Department of Mathematics and Geosciences*, Analysis 2 - Prof. Edi Rosset.