NICOLÒ PAVIATO

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I am a PhD student following the MASDOC CDT at the University of Warwick, under the supervision of Prof Ian Melbourne.

EDUCATION

University of Warwick, UK *2019 - Current*
Ph.D. in Mathematics & Statistics

University of Warwick, UK *2018 - 2019*
M.Sc. in Mathematics & Statistics (with distinction)

University of Pavia, Italy *2015 - 2018*
M.Sc. in Mathematics (110/110 cum laude)

University of Pavia, Italy *2011- 2015*
B.Sc. in Mathematics (96/110)

PUBLICATIONS AND PREPRINTS

"Decay in norm of transfer operators for semiflows" *preprint 2021*
with I. Melbourne and D. Terhesiu - *Studia Math. (to appear)*

"Nonexistence of spectral gaps in Hölder spaces *2022*
for continuous time dynamical systems"
with I. Melbourne and D. Terhesiu - *Israel. J. Math*

"Rates of convergence in the multidimensional weak invariance
principle for nonuniformly expanding semiflows"
In preparation

TEACHING

Teaching Assistant

· Mathematics and Statistics - 1st year pharmacology *Pavia, 2016*
· Mathematical Analysis 3 - 2nd year non-maths *Warwick, 2019-2020*
· Stochastic Processes - 2nd year statistics *Warwick, 2020*
· Stochastic Analysis - 4th year maths *" , 2020*
· Mathematical Analysis - 1st year non-maths *" , 2021*
· Ergodic Theory - 4th year maths *" , 2022*

Supervisions

· I supervised two small groups of 2nd year maths students for ten weeks. *" , 2019*

SELECTED TALKS

Junior ergodic theory seminar (online)   *June 2020*
"Nonexistence of spectral gaps in Hölder spaces for continuous time dynamical systems"

Statistics, probability, analysis and applied mathematics seminar   *December 2020*
(University of Warwick, online)
"A family of continuous-time dynamical systems with a trivial CLT"

Cambridge joint CDT conference (University of Cambridge, online)   *December 2020*
"A family of continuous-time dynamical systems with a trivial CLT"

Postgraduate seminar (University of Warwick, online)   *January 2021*
"Decay of the transfer operator for maps and flows"

iPOD seminar (Leiden University)   *October 2021*
"Rates of convergence for a functional CLT"

Ergodic theory and dynamical system seminar (University of Warwick)   *October 2021*
"Rates of convergence for a functional CLT"

Junior Ergodic Theory Meeting (ICMS, Edinburgh)   *March 2022*
"Absence of a spectral gap for flows"

2nd Jangada Dinâmica (Universidade Federal do Ceará, Fortaleza)   *November 2022*

CONFERENCES/SCHOOLS

Summer course in mathematics   *July 2018*
(Scuola matematica interuniversitaria, Cortona, Italy)

Thermodynamic formalism: ergodic theory and geometry   *July 2019*
(University of Warwick, Coventry)

One day ergodic theory meeting   *November 2019*
(Queen Mary University, London)

Statistical aspects of geodesic flows in nonpositive curvature   *January 2020*
(University of Warwick, Coventry)

Spring school on transfer operators (classical and modern techniques)   *March 2021*
(Bernoulli center, Lausanne, online)

Expanding dynamics: the school   *June 2021*
(Centro de modelamiento matematico, University of Chile, online)

Junior Ergodic Theory Meeting   *March 2022*
(ICMS, Edinburgh)

Limit Theorems for Slowly Mixing Systems   *June 2022*
(ICMS, Edinburgh)

Confererence celebrating the 100th anniversary of Rényi's birth   *June 2022*
(Hungarian academy of sciences, Budapest)

International Conference on Dynamical Systems (to happen)   *October 2022*
(IMPA, Rio de Janeiro)

2nd Jangada Dinâmica (to happen)   *November 2022*
(Universidade Federal do Ceará, Fortaleza)

The Lorentz Gas (to happen)   *December 2022*
(Lorentz Center, Leiden)

OTHER

Aside from Mathematics, I'm a sociable person who likes hanging out and meeting new people. In my spare time I also like doing sports and playing music.