

Davide RAVOTTI

PERSONAL DATA

PLACE AND DATE OF BIRTH: Savigliano (CN), Italy | 02 August 1989
ADDRESS: School of Mathematical Sciences, Monash University
9 Rainforest Walk, Clayton Campus, Victoria 3800 Australia
NATIONALITY: Italian
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EDUCATION

- 2018 | Ph.D. degree at the University of Bristol (Bristol, UK).
Supervisor: prof. Corinna Ulcigrai.
Thesis title: *Mixing via shearing in some parabolic flows*.
- 2014 | Diploma di Licenza of the Scuola Superiore of the University of Udine (Udine, Italy).
Final mark: 110/110 *cum laude*.
- 2013 | Master degree in Mathematics, University of Udine (Udine, Italy).
Thesis advisor: prof. Giovanni Panti.
Thesis title: *Misiurewicz parameters for the quadratic family* (in Italian).
Final mark: 110/110 *cum laude*.
- 2011 | Bachelor degree in Mathematics, University of Udine (Udine, Italy).
Thesis advisor: prof. Giovanni Panti.
Thesis title: *Generalized Farey enumerations* (in Italian).
Final mark: 110/110 *cum laude*.
- 2008 | Scientific high school degree at Liceo Scientifico "G. Ancina" (Fossano, Italy).
Final mark: 100/100.

ACADEMIC POSITIONS

MAR. 2019-PRESENT | Research Fellow, Monash University (Melbourne, Australia).
SEP. 2018-MAR. 2019 | Postdoctoral Assistant, University of Zürich (Zürich, Switzerland).
APR. 2018-AUG. 2018 | Research Associate, University of Bristol (Bristol, UK).

SEMINARS

23 SEP. 2019 | Conference "Smooth and Homogeneous Dynamics" (Bangalore, India).
01 JUL. 2019 | Conference "Dynamics of Parabolic Flows" (Zürich, Switzerland).
27 MAR. 2019 | Monash University (Melbourne, Australia).
05 DEC. 2018 | Scuola Normale Superiore (Pisa, Italy).
03 SEP. 2018 | Conference "Dynamics Days Europe" (Loughborough, UK).
16 JAN. 2018 | Queen Mary University (London, UK).
02 NOV. 2017 | Scuola Normale Superiore (Pisa, Italy).
17 OCT. 2017 | University of Warwick (Coventry, UK).
12 OCT. 2017 | University of Manchester (Manchester, UK).

- 24 AUG. 2017 Conference “Dynamics in Number Theory and Geometry” (Kingston, Canada).
- 06 JUN. 2017 Workshop “Modern Trends in the Ergodic Theory of Dynamical Systems” (Rome, Italy).
- 23 MAR. 2017 University of Bristol (Bristol, UK).
- 11 JAN. 2017 One-day Workshop on Dynamical Systems, ICTP (Trieste, Italy).
- 10 JAN. 2017 University of Udine (Udine, Italy).

PARTICIPATION IN SCHOOLS AND CONFERENCES

- 23 SEP.-04 OCT. 2019 Conference “Smooth and Homogeneous Dynamics” (Bangalore, India).
- 01-05 JUL. 2019 Conference “Dynamics of Parabolic Flows” (Zürich, Switzerland).
- 03-07 SEP. 2018 Conference “Dynamics Days Europe” (Loughborough, UK).
- 10-16 JUN. 2018 Conference “Ergodic aspects of modern dynamics” (Bedlewo, Poland).
- 19-23 MAR. 2018 Symposium “Teichmüller Dynamics” (Warwick, UK).
- 21-25 AUG. 2017 Conference “Dynamics in Number Theory and Geometry” (Kingston, Canada).
- 05-09 JUN. 2017 Workshop “Modern Trends in the Ergodic Theory of Dynamical Systems” (Rome, Italy).
- 01-04 AUG. 2016 Conference “Young Researchers in Mathematics” (St. Andrews, UK).
- 27 JUN.-2 JUL. 2016 Workshop “Analytical Methods in Classical and Quantum Dynamical Systems” (Pisa, Italy).
- 21-24 MAR. 2016 Conference “BMC” (Bristol, UK).
- 22-28 NOV. 2015 Simons semester workshop “Ergodic Theory of Dynamical Systems” (Bedlewo, Poland).
- 29 JUN.-3 JUL. 2015 Workshop “Group representations in Dynamics and Geometry” (Luminy, France).
- 22-25 JUN. 2015 Workshop “DinAmici – Italian people in Dynamics” (Corinaldo, Italy).
- 13-17 APR. 2015 LMS-CMI Research School “Statistical Properties of Dynamical Systems” (Loughborough, UK).
- 4-14 JUN. 2014 ICTP-NLAGA School “Dynamical Systems and Ergodic Theory” (Mbour, Senegal).

TEACHING AND OTHER ACTIVITIES

- JUL. 2018 Tutor at the *ICTP Summer School in Dynamics*.
- 2017/18 Tutor for the first year courses *Analysis 1* and *Foundations and Proof*.
Organiser of the Reading group in *Representation Theory of Semisimple Lie Groups*.
- 2016/17 Tutor for the first year courses *Analysis 1* and *Foundations and Proof*.
Tutor for the second year course *Introduction to Geometry*.
Organiser of the *Pure postgraduates seminars*.
Organiser of the *ChaParDyn Reading group*.
- 2015/16 Tutor for the first year courses *Analysis 1* and *Linear Algebra and Geometry*.
Organiser of the *Pure postgraduates seminars*.
Organiser of the Reading group in *Teichmüller Theory*.
- 2014/15 Marker for the courses *Ergodic Theory and Dynamical Systems* and *Algebra II*.

SERVICE TO THE COMMUNITY

Referee for: Discrete and Continuous Dynamical Systems.

LANGUAGE SKILLS

ITALIAN (native language).

ENGLISH (fluent).

FRENCH (intermediate).

JAPANESE (basic).

PUBLICATIONS AND PREPRINTS

- [1] D. Ravotti. Quantitative equidistribution of horocycle push-forwards of transverse arcs. *Preprint arXiv:1910.03187*, 2019.
- [2] A. Kanigowski, D. Ravotti. Polynomial decay of higher order correlations for discrete-series reparametrizations of horocycle flows. *Preprint arXiv:1909.08799*, 2019.
- [3] A. Avila, G. Forni, D. Ravotti, C. Ulcigrai. Mixing for smooth time-changes of general nilflows. *Preprint arXiv:1905.11628*, 2019.
- [4] D. Ravotti. Parabolic perturbations of unipotent flows on compact quotients of $SL(3, \mathbb{R})$. *Comm. Math. Phys.*, 371(1):331–351, 2019.
- [5] D. Ravotti. Mixing for suspension flows over skew-translations and time-changes of quasi-abelian filiform nilflows. Accepted for publication in *Ergod. Theory Dyn. Syst.*
- [6] D. Ravotti. Quantitative mixing for locally Hamiltonian flows with saddle loops on compact surfaces. *Ann. Henri Poincaré*, 18(12):3815–3861, 2017.
- [7] G. Panti, D. Ravotti. Measures induced by units. *J. Symb. Log.*, 78(3):886–910, 2013.

10 October 2019.