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OLIVER BUTTERLEY

CURRICULUM VITAE

INFORMAZIONI PERSONALI

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ADDITIONAL INFORMATION

Nationality: United Kingdom.

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PERSONAL INFORMATION

Date of birth: 6th February 1981. Nationality: United Kingdom.

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EDUCATION

Ph.D.	Imperial College London, Department of Mathematics, 2011. Supervisor: Stefano Luzzatto.
M.Sc.	Department of Mathematics, King's College London, 2004.
B.Sc.	Theoretical Physics, Department of Physics, Imperial College London, 2002.

POSTDOC POSITIONS

ICTP, Trieste	Postdoc Fellow in the Mathematics section of The Abdus Salam International Centre for Theoretical Physics. Sep. 2015 – Aug. 2018. (March-May 2017 – CNRS visitor to UPMC, Paris.)
University of Vienna	FWF (Austria Science Fund)-Lise Meitner Postdoc Fellowship, project M1583. Project title: “Statistical properties of Chaotic Physical Flows”. Project was standalone and included €10k annually for research expenses. Sep. 2013 – Aug. 2015.
University of Vienna	Supervisor: Prof. Henk Bruin. Postdoc, Sep. 2012–Aug. 2013.
Roma II “Tor Vergata”	Supervisor: Prof. Carlangelo Liverani. Postdoc, Sep. 2010–Feb. 2012.

PUBLICATIONS

Up to date list, downloadable preprints, copies of the published articles and MathSciNet links are available at <http://users.ictp.it/~butterley/>. Top five publications are marked with the ★ symbol. MR Author ID: 805760.

- [12] Polynomial Decay of Correlations for Flows, Including Lorentz Gas Examples (with Péter Bálint and Ian Melbourne). *Preprint*.
- ★[11] Open Sets of Exponentially Mixing Anosov Flows (with Khadim War). *Preprint*.
- [10] Disintegration of Invariant Measures for Hyperbolic Skew Products (with Ian Melbourne). *Israel J. Math.*, 219:171–188, 2017.
- ★ [9] Exponential Mixing for Skew Products with Discontinuities (with Peyman Eslami). *Trans. Amer. Math. Soc.*, 369:783–803, 2017.
- ★ [8] Open Sets of Axiom A Flows with Exponentially Mixing Attractors (with Vítor Araújo, Paulo Varandas). *Proc. Amer. Math. Soc.*, 144(7):2971–2984, 2016.
- [7] A Note on Operator Semigroups Associated to Chaotic Flows. *Ergod. Th. & Dynam. Sys.*, 36(5):1396–1408, 2016.
- [6] Robustly Invariant Sets in Fiber Contracting Bundle Flows (with Carlangelo Liverani). *J. Mod. Dyn.*, 7(2):255–267, 2013.
- ★ [5] Area Expanding $\mathcal{C}^{1+\alpha}$ Suspension Semiflows. *Commun. Math. Phys.*, 325(2):803–820, 2014.
- [4] Expanding Semiflows on Branched Surfaces and One-Parameter Semigroups of Operators. *Nonlinearity*, 25(12):3487–3503, 2012.
- [3] An Alternative Approach to Generalised BV and the Application to Expanding Interval Maps. *Discrete Contin. Dyn. Syst.*, 33(8):3355–3363, 2013.
- ★ [2] Smooth Anosov Flows: Correlation Spectra and Stability (with C. Liverani). *J. Mod. Dyn.*, 1(2):301–322, 2007.
- [1] Statistical Properties of Chaotic Flows. *Ph.D. thesis, Imperial College London*, 2011.

PAPER REFEREEING

For the “Journal of Modern Dynamics”, “Nonlinearity”, “Discrete and Continuous Dynamical Systems”, “Chaos, Solitons & Fractals”, “Ergod. Th. & Dynam. Sys”, “Annales Henri Poincaré”.

TEACHING EXPERIENCE

- Course on dynamical systems. Gaston Berger University, Saint-Louis, Senegal. May 2017.
- Supervised (jointly) the diploma projects of Alvaro Javier Fuentes Suárez and Vahatra Fenosa Rabodonandrianandraina (ICTP).
- Assisted in giving training sessions for school children competing in the Coppa Aurea mathematics team competition.
- Tutorials for ICTP diploma program courses.
- Assisted in mentoring PhD student András Némedy Varga (student of Péter Bálint, BME Budapest).
- Assisted in mentoring PhD student Michael Tsiflakos (student of Henk Bruin, University of Vienna).
- Research school, Loughborough (deliver daily tutorials and exercise classes), 13th-17th April 2015.
- Salvador, UFBA (Minicourse for summer school), 13th-14th February 2014 “Rates of mixing for flows”.
- Exercise classes: Übungen zu “Einführung in die Analysis”, Faculty of mathematics, University of Vienna, 2013.

SELECTED INVITED LECTURES

- The University of Nova Gorica (Vipava), 8th Dec. 2017 “Open sets of exponentially mixing Anosov flows”.
- Budapest, BME (Dynamical Systems Seminar), 24th Nov. 2017 “Open sets of exponentially mixing Anosov flows”.
- London, Imperial College (Aspects of Dynamical Systems), 17th Mar. 2017 “Open sets of exponentially mixing Anosov flows”.
- Leipzig (Operator Theoretic Aspects of Ergodic Theory), 21th Jan. 2017 “Statistical Properties of Chaotic Flows and the Associated Operator Semigroups”.
- Trieste, ICTP (One-day Workshop on Dynamical Systems), 11th Jan. 2017 “Open sets of exponentially mixing Anosov flows”.
- Salvador, UFBA, 24th Nov. 2016 “Open sets of exponentially mixing Anosov flows”.
- Vienna, 26th Mar. 2015 “Invariant measures, functional analysis”.
- Paris (ENS, dynamics and spectrum seminar), 2nd Dec. 2014 “Exponential mixing for piecewise \mathcal{C}^2 flows.”
- Bristol (Ergodic Theory Seminar), 20th Nov. 2014 “Exponential mixing for flows with discontinuities.”
- Vienna (Dynamical systems working seminar), 4th Mar. 2014 “Dolgopyat’s argument for exponentially mixing flows”.
- Salvador, UFBA (Minicourse for summer school), 13th-14th Feb. 2014 “Rates of mixing for flows”.

- Budapest, BME (Budapest-Wien Dynamics meeting), 25th Oct. 2013, “The Lorenz flow and some functional analysis”.
- Corinaldo (Dynamici meeting), 14th Jun. 2013, “Area Expanding $\mathcal{C}^{1+\alpha}$ Suspension Semiflows”.
- Rome (MALADY - Dynamical Systems Working Seminars), 21st Feb. 2013 “The problem of exponential mixing for the Lorenz attractor”.
- Vienna (Budapest-Wien Dynamics meeting), 23rd Nov. 2012 “Operator semigroups associated to continuous time dynamical systems”.
- Vienna (Arbeitsgemeinschaft Ergodentheorie), 8th Oct. 2012 “Expanding Semiflows on Branched Surfaces”.
- Imperial College London (DynamIC Seminars), Nov. 2008
- Penn State University (Mini course “Transfer Operators for Hyperbolic Maps”), Apr. 2007
- Manchester University (Dynamical Systems Seminars), Feb. 2007
- University of Warwick (ETDS Seminars) “Differentiability of SRB Measures for Anosov Flows”, Feb. 2007

REFEREES

Henk Bruin: Faculty of Mathematics, University of Vienna, Oskar Morgensternplatz 1 1090 Vienna, Austria.

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