Curriculum Vitae - Jacopo Bassi

Born on 01/07/1987 in Roma, Italy
Address: Via A. Leonori 110, Roma, Italy

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Research Interests	Operator Algebras and their connection with Group Theory, Dynamical Systems, Non-Commutative Geometry

Work

Postdoc — from Sep 2020
at Università degli Studi di Roma "Tor Vergata"

Postdoc — Mar 2019 - Feb 2020
at Università degli Studi di Roma "Tor Vergata"

Research Collaborator — May 2018
at Università degli Studi di Roma "Tor Vergata"

Grants and Awards

Beyond Borders — Jan 2020 - Jul 2021
"A geometric approach to Harmonic Analysis and Spectral Theory on trees and graphs", Università degli Studi di Roma "Tor Vergata", Principal Investigator: Prof. Florin Rădulescu

Beyond Borders — Dec 2019 - Dec 2021
"Interactions of Operator Algebras with Quantum Physics and Noncommutative Structure", Università degli Studi di Roma "Tor Vergata", Principal Investigator: Prof. Yoh Tanimoto

INdAM Fellowship — Oct 2018 - Dec 2018
"Concorso a n. 21 mensilità di borse di studio per l'estero per l'a.a. 2018-2019", Host University: WWU, Münster, Germany, Host: Prof. Dr. Wilhelm Winter

Teaching Experience

Professor (3 CFUs) — Winter 2020
of the course *"Mathematical Analysis I"* for the students of the "Ingegneria Informatica" bachelor program at Università degli Studi di Roma "Sapienza"

Tutor — Winter 2019
of the course *"Mathematical Analysis I"* for the students of the "Engineering Sciences" Department at Università degli Studi di Roma "Tor Vergata"

Supervision — November 2022 - June 2023

I am supervising Filip Runjic (master student from the Centre for the Mathematics of Quantum Theory at the University of Copenhagen) within the Erasmus+ traineeship program. The topic of his research is K-nuclearity for C^*-algebras.

Education

PhD in Mathematics — October 2013 - April 2018
Cum Laude, **SISSA**, Trieste, Italy / *Magna cum Laude*, **WWU**, Münster, Germany
 - Degree Thesis: *"On C^*-Algebras associated to Horocycle Flows"*

 - Supervisors: Prof. Ludwik Dąbrowski, Prof. Dr. Wilhelm Winter

Master in Mathematics — October 2010 - May 2013
110/110 cum Laude, **Università degli Studi Roma Tre**, Roma, Italy

- Degree Thesis: "*On the index for II_1-subfactors*"

- Supervisors: Prof. C. Pinzari, Prof. P. Caputo

Bachelor in Physics   September 2006 - October 2010
106/110, **Università degli Studi Roma Tre**, Roma, Italy
- Bachelor of Science in Physics, 106/110

- Degree Thesis: "*Dynamical symmetries and accidental degenerations: Kepler's problem in Classical Mechanics and hydrogen atom in Quantum Physics*"

Publications and Preprints	J. Bassi and F. Rădulescu, *A mixing property for the action of $SL(3,\mathbb{Z}) \times SL(3,\mathbb{Z})$ on the Stone-Čech boundary of $SL(3,\mathbb{Z})$*, (2022), to appear in Int. Math. Res. Not. IMRN, `https://arxiv.org/abs/2111.13885`

J. Bassi and R. Conti, *On isometries of spectral triples associated to AF-algebras and crossed products*, (2022), to appear in J. Noncommut. Geom., pdf at the link `https://www.jacopo-bassi.com/publications-and-preprints`

J. Bassi, *Local trivializations of suspended minimal Cantor systems and the stable orbit-breaking subalgebra*, (2022), to appear in Results Math. `https://arxiv.org/abs/2004.02716`

J. Bassi and F. Rădulescu, *An example of a non-amenable dynamical system which is boundary amenable*, (2022), to appear in Proc. Amer. Math. Soc., arXive:`https://arxiv.org/abs/2108.13936`

J. Bassi and F. Rădulescu, *Separable boundaries for non-hyperbolic groups*, J. Operator Theory **87**:2 (2022), 461–470

J. Bassi, *On C^*-algebras associated to actions of discrete subgroups of $SL(2,\mathbb{R})$ on the punctured plane*, Math. Scand. **126**:3 (2020), 540–558

J. Bassi, *Remarks on some simple C^*-algebras admitting a unique lower semicontinuous 2-quasitrace*, Colloq. Math. **165**:1 (2021), 53–62

J. Bassi and L. Dąbrowski, *Spectral triples on the Jiang-Su algebra*, J. Math. Phys. **59**:5 (2018)

Conferences and Invited Talks   Invited speaker **"East China Normal University seminar"**, Title: *On a possible notion of orbit-breaking subalgebra for flows*, East China Normal University, Shanghai, China, online (22/04/2022)

Invited speaker **"Seminari di Algebre di Operatori"**, Title: *Amenability properties for $SL(3,\mathbb{Z})$*, Università degli Studi di Roma "Tor vergata", Roma, Italy, online (12/05/2021)

Invited speaker **"NCGT seminars"**, Title: *Separable boundaries for non-hyperbolic groups*, Prague, Czech Republic, online (30/03/2021)

Invited speaker **"Operator Theory Seminars"**, Title: *Separable boundaries for non-hyperbolic groups*, Institute of Mathematics of the Romanian Academy, IMAR, Bucharest, Romania, online (17/03/2021)

Invited speaker at the Workshop **"Operator Algebras in Quantum Field Theory**

and Quantum Probability", Title: *Counter-examples to a conjecture by Kalantar and Kennedy*, Università degli Studi di Roma "Tor vergata", Roma, Italy (07/12/2019)

Conference **"YMC^*A"**, Copenhagen University, Copenhagen, Denmark (05/08/2019-10/08/2019)

Invited speaker **"Weekly seminar of the Mathematical Physics Group"**, Title: *On stability of C^*-algebras associated to actions of discrete subgroups of $SL(2,\mathbb{R})$ on $\mathbb{R}^2\backslash\{0\}$*, University of Glasgow, Glasgow, Scotland (16/10/2018)

Invited speaker **"Seminario di Algebre di Operatori "**, Title: *On C^*-algebras associated to the action of discrete subgroups of $SL(2,\mathbb{R})$ on $\mathbb{R}^2\backslash\{0\}$*, Università degli Studi di Roma "La Sapienza", Roma, Italy (12/07/2018)

Invited speaker **"Operator Algebras seminar"**, Title: *C^*-algebras associated to horocycle flows*, Università degli Studi di Roma "Tor Vergata", Roma, Italy (16/05/2018)

Invited speaker **"Weekly seminar of the Analysis Group"**, Title: *The C^*-Algebra of the Horocycle Flow*, University of Glasgow, Glasgow, Scotland (05/12/2017)

Invited speaker **"Kleines seminar"**, Title: *On C^*-algebras associated to horocycle flows*, WWU, Münster, Germany (27/11/2017)

Invited speaker **"Kleines seminar"**, Title: *Spectral triples on the Jiang-Su algebra*, WWU, Münster, Germany (30/10/2017)

Invited speaker **"NCG seminars"**, Title: *The C^*-algebra of the horocycle flow*, SISSA, Trieste, Italy (24/09/2017)

Invited speaker **"NCG seminars"**, Title: *Spectral triples on the Jiang-Su algebra*, SISSA, Trieste, Italy (14/09/2017)

Invited speaker **"NCG seminars"**, Title: *Spectral triples on inductive limit C^*-algebras*, SISSA, Trieste, Italy (29/03/2017)

Workshop **"C^*-Algebras and Dynamical Systems"**, Centre de Recerca Matemàtica, Barcelona, Spain(20/03/2017-24/03/2017)

School **"Advanced Course on Operator Algebras: Groupoids, Crossed Products, and Rokhlin Dimension"**,Centre de Recerca Matemàtica, Barcelona, Spain (13/03/2017-17/03/2017)

Conference **"Noncommutative Geometry and Applications"**, ICTP, Trieste, Italy (27/02/2017-03/03/2017)

Workshop **"Noncommutative Geometry the next Generation"**, Będlewo Conference Center, Będlewo and IMPAN, Warsaw, Poland (September-October 2016)

Conference **"YMC^*A"**, WWU Münster, Münster, Germany (July 2016)

Invited speaker **"NCG seminars"**, Title: *Spectral triples on inductive limit C^*-algebras*, SISSA, Trieste, Italy (24/06/2016)

Speaker at the Conference **"French-Italian Meeting on Spectral Triples in Non-**

commutative Geometry", Title: *"Spectral Triples on the Jiang-Su Algebra"*, Villa Toeplitz, Varese, Italy (02/05/2016-05/05/2016)

School **"Spring School on Algebraic K-Theory of Topological Algebras"**, Universität Regensburg, Regensburg, Germany (16/03/2015-20/03/2015)

Conference **"4th Conference of Settat on Operator Algebras and Applications"**, Hotel El Andalous, Marrakesh, Morocco (27/01/2015-30/01/2015)

Conference **"Noncommmutative Geometry and Applications"**, Villa Mondragone, Frascati, Italy (16/06/2014-21/06/2014)