

Curriculum Vitae - Jacopo Bassi

Born on 01/07/1987 in Roma, Italy
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| Research Interests | Operator Algebras and their connection with Group Theory, Dynamical Systems, Non-Commutative Geometry |
| Work | <p>Postdoc from Sep 2020 at Università degli Studi di Roma "Tor Vergata"</p> <p>Postdoc Mar 2019 - Feb 2020 at Università degli Studi di Roma "Tor Vergata"</p> <p>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</p> <p>Research Collaborator May 2018 at Università degli Studi di Roma "Tor Vergata"</p> |
| Grants and Awards | <p>Tor Vergata Research Grant Apr 2022 - Mar 2024 "Operator algebras and quantum mathematics (OAQM)", Università degli Studi di Roma "Tor Vergata", Principal Investigator: Prof. Yoh Tanimoto</p> <p>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</p> <p>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</p> |
| Teaching Experience | <p>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"</p> <p>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"</p> |
| Reviews | since 2023 I am a reviewer for AMS "Mathematical Reviews" |
| 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

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 $SL(3, \mathbb{Z})$* , (2023), 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*, (2023), to appear in J. Noncommut. Geom., <https://arxiv.org/abs/2301.07644>

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., <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)

Preprints

J. Bassi, R. Conti, C. Farsi and F. Latrémolière, *Isometry groups of inductive limits of metric spectral triples and Gromov-Hausdorff convergence*, (2023), <https://arxiv.org/abs/2302.09117>

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 $\mathbb{R}^2 \setminus \{0\}$* , 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 $\mathbb{R}^2 \setminus \{0\}$* , 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 Noncommutative 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 “**Noncommutative Geometry and Applications**”, Villa Mondragone, Frascati, Italy (16/06/2014-21/06/2014)