

Vito Felice Zenobi

Scientific Interests

Noncommutative Geometry, Index Theory, KK-theory, Lie Groupoids

Education

- 10/2012–10/2015 **PhD student Università di Roma La Sapienza/ Université Paris Diderot (Paris VII)**, Under the joint supervision of professors Paolo Piazza and Georges Skandalis.
PhD Thesis “ Secondary invariants in K-theory”, defended in Rome, 22/03/2016
- 10/2012 **Laurea Magistrale in Matematica, Università di Roma La Sapienza..**
Final grade: 110/110 cum laude. Master thesis: “Teoria dei Γ -indici superiori di Connes e Moscovici”.
- 09/2008–02/2009 **Erasmus Project at the UPMC-Paris 6.**
- 10/2010 **Bachelor’s degree in mathematics, Università di Roma La Sapienza.**
Final grade: 110/110 cum laude. Bachelor’s thesis: “Il Theorema di Gelfand-Naimark commutativo e la compattificazione di Stone-Čech”.
- 07/2010 **High school degree at "Liceo Classico Statale Quinto Orazio Flacco" in Lavello (PZ).**

Next position:

- 01/10/2020–31/10/2022 Researcher position at La Sapienza University - Roma

Previous positions:

- 01/11/2017–30/04/2020 Post-doc position at Georg-August-Universität-Göttingen
- 10/2016–09/2017 ANR Post-Doc at Université de Montpellier.
- 09/2015-08/2016 ATER position at Université Paris Diderot (Paris VII).

Teaching Experience

- 10/2019-02/2020 Assistant teacher for the reading course: Seminar on sounds and shapes: An introduction to spectral geometry - University of Göttingen
- 10/2018-01/2018 Teacher for the Master course: Cyclic Cohomology - University of Göttingen
- 2017-2018 Organizer of the Oberseminar: Geometry and Topology in Göttingen
- 2016 Assistant teacher for the course Algèbre et analyse pour les classes préparatoires – Exercice session – Université Paris Diderot-Paris7
- 2016 Colles de Analyse et Géométrie – L1 – Université Paris Diderot-Paris7

A selection of invited talks

- 8–12/07/2019 **Geometry of Scalar Curvature 2019** , *Conference and Summer School* , Cortona.
- 10–14/06/2019 **Operator K-Theory in Geometry, Topology and Representation Theory**, Kyoto.
- 11–15/06/2018 **Secondary and delocalized index invariants**, University of Copenhagen, Copenhagen.
- 7–8/06/2018 **Geometry and Quantum Theory: Graduate School and Colloquium**, Conference centre De Poort, Nijmegen.
- 25/06/2017–01/07/2017 **Analysis and Topology in Interaction 2017**, Cortona.
- 29/05/2017–02/06/2017 **SINGSTAR Conference 2017: Index theory and singular structures**, Toulouse.
- 27/02/2017–03/03/2017 **Noncommutative Geometry and Applications**, ICTP, Trieste.
- 22/02/2017 **Operator algebra seminar**, University of Copenhagen, Copenhagen.
- 31/11/2016–3/12/2106 **ARBRE de NOEL de Géométrie Non Commutative**, Albi.
- 7–20/11/2016 **Invited visitor**, Vanderbilt University, Nashville.
- 1–5/06/2015 **Noncommutative methods in Topolgy and Geometry**, Université Claude Bernard Lyon 1, Lyon.
- 20–24/04/2015 **Advances in Noncommutative Geometry** , Université Paris Diderot, Paris.
- 27–29/11/2014 **Noncommutative Geometry Meeting** , Besançon.
- 07/2014 **CNRSGDR Geometrie Noncommutative**, Academic Village Crete, Anogia.

Papers

- 1 Vito Felice Zenobi. Mapping the surgery exact sequence for topological manifolds to analysis. *J. Topol. Anal.* 9 (2017), no. 2, 329 - 361.
- 2 Vito Felice Zenobi. Adiabatic groupoid and secondary invariants in K-theory. *Adv. Math.* 347 (2019), 940 - 1001.
- 3 Paolo Piazza and Vito Felice Zenobi. Singular spaces, groupoids and metrics of positive scalar curvature. *J. Geom. Phys.* 137 (2019), 87-123.
- 4 Vito Felice Zenobi. The adiabatic groupoid and the Higson-Roe exact sequence. arXiv:1901.05081. Accepted by *Journal of NonCommutative Geometry*
- 5 Paolo Piazza, Thomas Schick and Vito Felice Zenobi. Higher rho numbers and the mapping of analytic surgery to homology. (2019) arXiv:1905.11861
- 6 Paolo Piazza, Thomas Schick and Vito Felice Zenobi. On positive scalar curvature bordism. (2019) arXiv:1912.09168 . Accepted by *Communications in Analysis and Geometry*
- 7 Thomas Schick and Vito Felice Zenobi. Positive scalar curvature due to the cokernel of the classifying map. (2020). arXiv:2006.15965

Languages

Italian **Mothertongue**
English **Fluent**
French **Fluent**

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