

Iakovos Androulidakis

Curriculum Vitæ, August 2017

Personal data

Nationality Greek.
Citizenship Greek.
Home address 19, Leonida Drosi Street, 11474, Athens, Greece.
Date of birth February 6, 1973.
Place of birth Athens, Greece.
PhD University of Sheffield, U.K., January 17, 2002.

Positions

Nov 2016 – today Associate Professor (tenured), National and Kapodistrian University of Athens (NKUA).
Jan. 2012 – Oct 2016 Assistant Professor (tenure track), National and Kapodistrian University of Athens (NKUA).
Aug. 2009 – July 2011 Postdoctoral Researcher (DFG), Institute of Mathematics, University of Göttingen.
Sept. 2008 – June 2009 Postdoctoral Researcher (FCT), University of Porto.
Oct 2006 – June 2008 Visiting Assistant Professor (P.D. 407), Department of Mathematics, University of Crete.
Sept. 2005 – Sept. 2006 Research Assistant to Prof. A. Cattaneo, Institute of Mathematics, University of Zürich.
Sept. 2004 – July 2005 Postdoctoral Researcher (EU-RTN "Quantum Spaces and Noncommutative Geometry"), Departement de Mathématiques, Paris 7 Denis Diderot.
May 2002 – Aug. 2004 National service and medical recovery.
Sept. 2001 – Feb. 2002 Postdoctoral Researcher (EU-RTN "Differential Geometry Endeavour"), Instituto Superior Tecnico, Lisbon.
Sept. 10, 2001 PhD viva voce, University of Sheffield.

Grants/Awards/Prizes

- 2015 “Chercheur Visiteur” at Paris 7 Denis Diderot (3900 euros).
DFG funding for short visits to University of Göttingen (4800 euros).
“Shapiro Visiting Professorship”, Penn State (2500 euros).
- 2013 “Konstantine Karatheodory” prize (NKUA)
- 2012 Prize of the Academy of Athens to common publication with V. Nestoridis (prize awarded to V. Nestoridis)
- 2011 Marie Curie Career Integration Grant (50000 euros). <http://users.uoa.gr/~iandroul/NCGSF.html>
- 2011 “Maitre de Conferences Visiteur”, Université Toulouse Paul Sabatier.
- 2008 FCT (Portugal) grant for project “Topological Invariants via Differential Geometry”, PTDC/MAT/098770/2008 (<http://cmup.fc.up.pt/cmup/pbgothen/tidg/>)
- 2007 “Ciencias 2007” competition FCT (Portugal). Postdoctoral researcher position for 5 years at the university of Porto.
- 2005 CNRS postdoctoral position (12 months)at Université Blaise Pascal, Clermont-Ferrand. (Chose position in Zürich instead.)
- 2000 T.M. Flett award, Faculty of Sciences, University of Sheffield.
- 1997 Full scholarship (Differential Geometry) by the Greek State Scholarships Foundation for PhD studies at the University of Sheffield.

Community service Reviewer for AMS, Zentralblatt
Referee for Annals of Mathematics.

Education

- Sept. 1997 – PhD degree, University of Sheffield, Thesis title: “Extensions, classification and cohomology for Lie algebroids and Lie groupoids”, Supervisor: K. Mackenzie.
- Jan. 2002
- Sept. 1995 – MSc in Pure Mathematics, Department of Mathematics NKUA, Dissertation title
- July 1997 “Differential Spaces”, Supervisor: Maria Papatriantafyllou.
- Sept. 1990 – BSc (Ptychio), Department of Mathematics NKUA.
- July 1995

Publications

- 1 IAKOVOS ANDROULIDAKIS AND PAOLO ANTONINI Integral lifts for transitive Lie algebroids. Preprint arXiv:1707.04855
- 2 IAKOVOS ANDROULIDAKIS AND MARCO ZAMBON Almost regular Poisson manifolds and their holonomy groupoids. Sel. Math. New Ser. DOI: 10.1007/s00029-017-0319-5. Preprint arXiv:1606.09269
- 3 IAKOVOS ANDROULIDAKIS AND MARCO ZAMBON Stefan-Sussmann singular foliations, Singular subalgebroids, and their associated sheaves. International Journal of Geometric Methods in Modern Physics, 2016. DOI: <http://dx.doi.org/10.1142/S0219887816410012>
- 4 IAKOVOS ANDROULIDAKIS AND GEORGES SKANDALIS The Baum-Connes conjecture for singular foliations. Preprint arXiv:1509.05862

- 5 IAKOVOS ANDROULIDAKIS Laplacians and spectrum for singular foliations. Chinese Annals of Mathematics, Series B 35(5), 2014 : 679–690.
- 6 IAKOVOS ANDROULIDAKIS AND MARCO ZAMBON Holonomy transformations for singular foliations. Adv. Math., 256 : 348-397, 2014. DOI: 10.1016/j.aim.2014.02.003 Preprint arXiv:1205.6008
- 7 IAKOVOS ANDROULIDAKIS AND MARCO ZAMBON Smoothness of holonomy covers for singular foliations and essential isotropy. Math. Z., 275(3-4) : 921-951, 2013. DOI 10.1007/s00209-013-1166-5. Preprint arXiv:1111.1327
- 8 IAKOVOS ANDROULIDAKIS AND VASSILI NESTORIDIS Extensions of the disc algebra and of Mergelyan’s theorem. C.R., Math., Acad. Sci. Paris 349(13-14) : 745-748, 2011.
- 9 IAKOVOS ANDROULIDAKIS AND GEORGES SKANDALIS The analytic index of elliptic pseudodifferential operators on singular foliations. Journal of K -theory 8(03) : 363-385, 2011. DOI: <https://doi.org/10.1017/is011001026jkt141>. Preprint arXiv:1004.3797.
- 10 IAKOVOS ANDROULIDAKIS AND GEORGES SKANDALIS Pseudodifferential calculus on a singular foliation. Journal of Noncommutative Geometry 5(1) : 125-152, 2011. DOI: 10.4171/JNCG/72
- 11 IAKOVOS ANDROULIDAKIS AND GEORGES SKANDALIS The holonomy groupoid of a singular foliation. J. Reine Angew. Math. 626 : 1-37, 2009. DOI: <https://doi.org/10.1515/CRELLE.2009.001> Preprint arXiv:math/0612370
- 12 IAKOVOS ANDROULIDAKIS On the connection theory of extensions of transitive Lie groupoids. J. Diff. Geom. Appl. 24 : 150-171, 2006. DOI: <http://dx.doi.org/10.1016/j.difgeo.2005.08.007> Preprint arXiv:math/0307282
- 13 IAKOVOS ANDROULIDAKIS The holonomy of a singular foliation Proceedings of Poisson 2006 (Tokyo). Travaux Mathematiques 17 : 1-15, 2007.
- 14 IAKOVOS ANDROULIDAKIS Crossed modules and the integrability of Lie brackets. Preprint arXiv:math.DG/0501103
- 15 IAKOVOS ANDROULIDAKIS Quantization and the integrability of Lie algebroids. Proceedings of the Sixth Panhellenic Congress on Geometry (Limassol 2003), Bull. Hell. Math. Soc. 51, 2006
- 16 IAKOVOS ANDROULIDAKIS Classification of extensions of principal bundles and transitive Lie groupoids with prescribed kernel and cokernel. J. Math. Phys. 45(10) : 3995-4012, 2004. DOI: <http://dx.doi.org/10.1063/1.1786349> Preprint arXiv:math/0402007
- 17 IAKOVOS ANDROULIDAKIS Connections on Lie algebroids and the Weil-Kostant theorem. Proceedings of the Fourth Panhellenic Congress on Geometry (Patras 1999), Bull. Hell. Math. Soc. 44 : 51-57, 2000.

Supervision of MSc dissertations, NKUA

Theodora Leventi “Hurewicz’s theorem”, ongoing (started February 2016).

Dimitris Gerontogiannis “Deformation to the normal cone and the tangent groupoid”, completed June 2016.

Gerontogiannis

Dimitris Economopoulos “The Atiyah-Singer index theorem and the heat kernel”, completed April 2016.

Economopoulos

Ioannis Generalis “Singular foliations in Poisson geometry”, ongoing (started Sept. 2014).

Generalis

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Christian Aravanis “Deformation quantization and the Duflo isomorphism”, completed Sept. 2014, Currently: PhD student (Sheffield) with full scholarship (3 years).
Giorgos Zavitsanos “Bundle Gerbes and twisted K-theory”, completed Sept. 2012.

Seminars

Athens, ss 2012-13 “Deformation quantization”.
Athens, ws 2012-13 “Hilbert modules in KK-theory”.
Athens, 2011-12 “The Atiyah-Singer theorem for foliations”.
Porto, ws 2008-09 “Index theory for pseudodifferential operators”.
Crete, 2007-08 “The Atiyah-Singer theorem”.
Zürich, ws 2005-06 “Lie groupoids and Lie algebroids in Geometry and Physics”.

Postgraduate courses

Athens, ws 2015-16 “Algebraic Topology” (4hours/week).
Athens, ws 2013-14 “Geometric prequantization” (4 hours/week). Chapters 1,2 from “Lectures on the orbit method” by K. Kirillov.
Athens, ws 2013-14 Differential Geometry (4 hours/week) Introduction to differential topology.
Athens, ws 2012-13 Lie groups and Lie algebras (4 hours/week). Chapter 1 from “Lie groups” by Duistermaat and Kolk.

Undergraduate courses

Athens, every year “Differential Geometry of Curves and Surfaces” (6 hours/week).
Athens, ws 2015-16 “Linear Algebra” (Department of Physics).
Athens, ws 2012-13 “Mathematical Physics” (4 hours/week). Chapter 1 of “Quantum mechanics for mathematicians” (L. A. Takhtajan), and “Mathematical Methods for classical mechanics” by V.I. Arnold.
Crete, ss 2007-08 “Analysis with many variables” (4 hours/week). Followed “Analysis on manifolds” by Spivak.
Crete, ss 2007-08 “Calculus I” (4 hours/week).
Crete, ws 2007-08 “Calculus II” (4 hours/week).

- Crete, ss “Geometry” (4 hours/week).
2006-07
- Crete, ss “Linear Algebra I” (4 hours/week).
2006-07
- Crete, ws “Groups of Geometric Transformations” (4 hours/week).
2006-07
- Zürich, ss “Differential Geometry” (4 hours/week).
2005-06
- Sheffield, Demonstration and exercise classes for various courses of Analysis and Algebra.
1997-2000

Organization of conferences

- May 2016, “Contemporary Algebra and Geometry in Greece”.
Anogia
- June 2014, Meeting of CNRS-GDR “Geometrie Noncommutative”.
Anogia
- June 2013, 11th Panhellenic Conference of Geometry.
Athens
- Oct. 2012, “Contemporary Algebra and Geometry in Greece”.
Athens
- Aug. 2012, “Geometry and Physics 11”. Conference topic: Quantum Geometry.
Anogia
- July 2009, “XVIII Oporto Meeting in Topology, Geometry and Physics”. Conference topics: Poisson
Porto and Symplectic geometry.
- June 2007, “Singular Foliations – Rigidity of type II group actions”. Meeting of CNRS-GDR “Geometrie
Gers, Noncommutative”.
Fleurance,
France

Invited Lectures

- Toulouse, “The Baum-Connes conjecture for singular foliations”
June 2017
- Sheffield, “The Baum-Connes conjecture for singular foliations”
Aug. 2016
- Perugia, July “Almost regular Poisson manifolds and their holonomy groupoids”
2016
- Patras, June “Noncommutative Geometry methods in spectral theory”
2016
- Larnaka, June “Almost regular Poisson manifolds”
2016
- Göttingen, “The Baum-Connes conjecture for singular foliations”
June 2015
- Leuven, May “Singular Subalgebroids”
2015

- Penn State, Apr. 2014 “The Baum-Connes conjecture for singular foliations”
- Paris, Mar. 2015 “Singular subalgebroids”
- Zürich, Feb. 2015 “Singular subalgebroids”, ETH Talks in Mathematical Physics.
- Penn State, Nov. 2014 Two lectures: “Integration of singular foliations and usage” and “Singular subalgebroids”
- Cortona, June 2014 “Singular foliations, holonomy and their use”. Conference “Topology and Analysis in interaction”.
- Sanya (China), Mar. 2014 “Singular foliations and their holonomy”. Conference “Séminaire Itinérant Geometry and Physics XII”
- Göttingen, Aug. 2013 “Symmetries and the mathematical foundations of classical mechanics”. Summer school “Periodic Structures in Applied Mathematics”.
- Bonn, Aug. 2013 “Singular foliations and their holonomy”.
- Zürich, Dec. 2012 “Singular foliations and their holonomy”, ETH Talks in Mathematical Physics.
- Bucharest, Sept. 2012 “The leafwise Laplacian of a singular foliation and its spectrum”. Seminar on Harmonic Analysis at the Institute of Mathematics “Simon Stoilov” of the Romanian Academy of Sciences.
- Shanghai, July 2012 “The leafwise Laplacian of a singular foliation”. Franco-Chinese Noncommutative Geometry meeting, Fudan University.
- Bialoweiza, June 2012 “The leafwise Laplacian and its spectrum: The singular case”. XXXI Workshop on Geometric Methods in Physics.
- Luminy, Sept. 2010 “Pseudodifferential calculus for singular foliations”. Quantum groups and Noncommutative Geometry meeting.
- Cardiff, June 2010 “Pseudodifferential calculus for singular foliations”. EU-NCG 3rd Annual Meeting.
- Lisbon, Feb. 2009 “The Lie functor for groupoids”. Poisson PT 2008-09.
- Coimbra, Nov. 2008 “Singular foliations: Longitudinal pseudodifferential calculus and index theory”.
- Sheffield, Nov. 2005 “Realising singular foliations by Lie groupoids”.
- Zürich, Oct. 2005 “Lie groupoids for singular foliations”. ETH Autumn meeting in Mathematical Physics.
- Dublin, Nov. 2004 “Realising singular foliations by Lie groupoids”. Dublin Institute for Advanced Studies. Mid-term meeting of EU-RTN “QSNG”.
- Luminy, June 2004 “Extensions of transitive Lie groupoids and their classification”. Conference “Groups, locally compact quantum groups, groupoids”.

Announcements

- Patras, May 2011 “The analytic index for elliptic pseudodifferential operators along a singular foliation”. 10th Panhellenic Conference of Geometry
- Anogia, May 2009 “Pseudodifferential Calculus for Singular foliations”. 9th Panhellenic Conference of Geometry.
- Nicosia, Apr. 2009 “Pseudodifferential Calculus and index theory for singular foliations”
- Lausanne, July 2008 Poisson 2008. Poster presentation.
- Athens, May 2008 “The C^* -algebra of a singular foliation”. 12th Panhellenic Congress of Mathematical Analysis.
- Tokyo, June 2006 Poisson 2006. Poster presentation.
- Samos, May 2005 “Local desingularization of Stefan foliations”. 7th Panhellenic Conference of Geometry.
- Luxemburg, 2004 Poisson 2004.
- Limassol, May 2003 “Geometric quantization and the integrability of Lie brackets”. 6th Panhellenic Conference of Geometry.
- Athens, Mar. 2002 Two talks entitled “Geometric quantization and the integrability of Lie algebroids”.
- Lisbon, Nov. 2001 “Geometric quantization and the integrability of Lie algebroids”. Seminar “Geometria em Lisboa”.
- Sheffield, May 2001 “The classification of extensions of principal bundles and a cohomology for Lie groupoids”. Seminar “Geometry with brackets”.
- Utrecht, May 2000 Two talks on the cohomology of Lie groupoids and the integrability of Lie algebroids. Seminar “Groupoid Seminar 1999-2000” (joint with the university of Amsterdam)
- Patras, May 1999 “Connections on Lie algebroids and the Weil-Kostant theorem”. 4th Panhellenic Conference of Geometry.