Curriculum Vitae

Simon Lyngby Kokkendorff
Istedgade 92, 3.th.
1650 Kbh. V.
Phone: 33314883   Email: `s.l.kokkendorff@mat.dtu.dk`

Personal Data

- Born 12th of February 1972 in Aarhus, Denmark.

- Married to Gitte Bach, 25th of May 2001.

- One child, born on the 9th of May 2005.

Education and Academic Work

- Jan. 1999: Completed M.Sc. in mathematics and physics from the University of Aarhus. Supervisor: Jørgen Tornehave.

- Aug. 1999–Jan. 2003: Ph.D.-studies in mathematics at the Department of Mathematics, Technical University of Denmark. Supervisors: Steen Markvorsen and Poul Hjorth.

- Spring 2003: Employed in a part time position in the Limes-project at the Department of Mathematics, Technical University of Denmark (see `http://www.emis.de/projects/LIMES/` for a description of the project).

- October 2003-May 2005: Employed in an Enterprise Ireland postdoctoral position at the National University of Ireland, Maynooth. Working with Dr. Stephen Buckley.

- August 2005-present: Employed in a Steno postdoctoral position, funded by the Danish Research Agency, at the Department of Mathematics, Technical University of Denmark.

Studies Abroad

- Aug. 2001–Jun. 2002: Studying abroad supported by "Rejselegat for Matematikere".

- Aug. 2001–Dec. 2001: Visiting Prof. Karsten Grove, University of Maryland.

- Dec. 2001–Apr. 2002: Visiting Prof. Peter Petersen, UCLA.

- Apr. 2002–Jun. 2002: Visiting Prof. Minoru Tanaka, Tokai University and Prof. Jin Ichi Itoh, University of Kumamoto, Japan.

Other relevant activities

- July 2000: Project instructor on the project *Distance geometry of molecules* at the ECMI Modelling week in Lund, University of Lund, Sweden.

- July 2001: CRM Summer School "Global Riemannian Geometry: curvature and topology", Universitat Jaume I, Spain.

- August 2004: 14th Jyväskylä Summer School, University of Jyväskylä, Finland

- From spring 2004: Reviewer for Zentralblatt MATH.

Selected Talks

1. Oct. 2006: "Does negative type characterize the round sphere?", conference: Geodesics and related topics, University of Kumamoto.

2. May 2004: "On the existence and construction of stably causal Lorentzian metrics", 2nd Irish Geometry Conference, University College Cork.

3. April 2004: "Characterizing the Round Sphere by Mean Distance", BMC 2004, Queen's University Belfast.

4. Nov. 2003: "Mean Distance and Curvature", Workshop on Geometry and Global Analysis, Technical University of Denmark.

5. Nov. 2003: "Metric Spaces of Negative Type", Department of Mathematics, NUIM.

6. March 2002: "Negative Type in Riemannian Geometry", Department of Mathematics, UCLA.

7. Sep. 2002: "Embedding finite metric spaces as simplices in constant curvature manifolds", Differential Geometry Day, Centre for Mathematical Sciences, University of Lund.

8. July 2001: "Isometric embedding of leaf spaces into constant curvature Riemannian manifolds", CRM Summer School "Global Riemannian Geometry: curvature and topology", Universitat Jaume I.

Teaching Experience

- January 2007: Teaching the course Advanced Modeling-Applied Mathematics 01257, TUD.

- March 2006: Initiated the UDtU teaching course for assistant professors at TUD.

- Autumn 2004 and spring 2005: Lecturing in the course MT151, Introduction to Mathematical Computing, NUI Maynooth.

- Spring 2004: Lecturing in the course Integral Calculus MT102, NUI Maynooth.

- Jan. 2004: Topics in Geometry, Short Course, Department of Mathematics, NUI Maynooth.

- Autumn 1999: Teaching Assistant in Mathematics, Technical University of Denmark.

- Spring 1999: Teaching high school mathematics, VUC Viborg.

- Sep. 1995-Dec. 1998: Teaching Assistant (instruktor) in mathematics, University of Aarhus.

Publications

M.Sc.-thesis

- *Lorentz geometri, kausalitet og topologi (Lorentzian geometry, causality and topology)*, Department of Mathematics, University of Aarhus.

Ph.D.-thesis

- *Geometry & Combinatorics*, Department of Mathematics, Technical University of Denmark.

Scientific Papers

[K7] Does Negative Type Characterize the Round Sphere?, preprint, MAT-Report no. 2006-16, August 2006.
(Accepted for publication in *Proc. Amer. Math. Soc.*)

[K6] Conformal Boundaries of Warped Product, preprint, MAT-Report No. 2006-07, April 2006.

[K5] A Laplacian on Metric Measure Spaces, preprint, MAT-Report No. 2006-06, March 2006.

[K4] Polar Duality and the Generalized Law of Sines, preprint, NUIM, February 2005. (Accepted for publication in *Journal of Geometry.*)

[BK2] (With S. Buckley) Comparing the Floyd and ideal boundaries of a metric space, preprint, NUIM, December 2004.
(Accepted for publication in *Trans. Amer. Math. Soc.*)

[BK1] (With S. Buckley) Detours and Gromov Hyperbolicity, preprint, NUIM, September 2004.

[K3] Characterizing the Sphere by Mean Distance, preprint, NUIM, February 2004. Submitted to *Journal of Differential Geometry.*

[K2] Gram Matrix Analysis of Finite Distance Spaces in Constant Curvature, *Discrete and Computational Geometry* **31** (2004), 515–543.

[K1] On the existence and construction of stably causal Lorentzian metrics, *Differential Geom. Appl.* **16** (2002), no. 2, 133–140.

[HKM] (Med P. G. Hjorth and S. Markvorsen) Hyperbolic spaces are of strictly negative type, *Proc. Amer. Math. Soc.* **130** (2002), 175–181.

Other Publications

- Verden Rundt med Rejselegatet 3, *Matilde* **19**, Danish Mathematical Society, March 2004.

- Verden Rundt med Rejselegatet 2, *Matilde* **18**, Danish Mathematical Society, Oct. 2003.

- Verden Rundt med Rejselegatet 1, *Matilde* **17**, Danish Mathematical Society, June 2003.

- Project report from the ECMI modelling week in Lund, July 2000: *Distance Geometry of Molecules*, available at:
  http://www.maths.lth.se/matstat/ecmi/modw/reportgroup4/reportgroup4.pdf

- Reviews of 19 papers in Zentralblatt MATH, available through
  http://www.emis.de/ZMATH