

Thomas Hjortgaard Danielsen

Curriculum Vitae

Personal

- Born 26th September 1983, in Roskilde, Denmark.
- Danish citizen.
- Language skills: Fluent in Danish, English and German.

Education

- JUNE 2002: High school graduation.
- JUNE 2005: ScB in Physics and Mathematics from University of Copenhagen.
- FEBRUARY 2009: ScM in mathematics from University of Copenhagen. Advisor: Bergfinnur Durhuus.

Employments

- NOVEMBER 2005 - FEBRUARY 2009: Teaching assistant at the Department of Mathematical Sciences, University of Copenhagen (see below).
- MARCH 2009 - APRIL 2009: Research assistant at Department of Mathematical Sciences, University of Copenhagen.
- MAY 2009 - PRESENT: Ph.d.-student at the Department of Mathematical Sciences, University of Copenhagen.

Teaching Experience

- BLOCK 2, 05/06: Teaching assistant for LinAlg.
- BLOCK 3, 05/06: Teaching assistant for Geom1 (curves and surfaces).

- BLOCK 4, 05/06: Teaching assistant for An1 (metric spaces).
- BLOCK 3, 06/07: Teaching assistant for Geom1 + Geom2 (smooth manifolds).
- BLOCK 1, 07/08: Teaching assistant for GeomLie (Lie groups).
- BLOCK 2, 07/08: Teaching assistant for GeomRie (Riemannian geometry).
- BLOCK 4, 07/08: Teaching assistant for An3 (operators on Hilbert spaces).
- BLOCK 2, 08/09: Teaching assistant for “Introduction to Mathematical Physics”.
- BLOCK 3, 08/09: Teaching assistant for Geom2.
- BLOCK 4, 08/09: Teaching assistant for Geom3 (de Rham theory).
- BLOCK 1, 09/10: Class teacher for MatIntro.
- BLOCK 2, 09/10: Class teacher for LinAlg.

Attended Conferences

- AUGUST 2009: “International Congress of Mathematical Physics”, Prague.

Mathematical Interests

Mathematical physics: Representation theory of (semisimple) Lie groups, harmonic analysis, symmetric spaces. The mathematics behind quantum mechanics and gauge field theory. Geometric analysis, index theory, Seiberg-Witten theory.

Non-Mathematical Interests

Danish and world history, classical music (in particular Rachmaninoff, Dvorak, Ravel, Puccini and renaissance music), piano playing, nature hiking, biking.