

John Olsen

CONTACT INFORMATION

John Olsen
26 Vick Park B, 2
Rochester, NY, 14607

Phone: +1 267 779 2551
olsen@math.rochester.edu
<http://www.johnno.dk>

CAREER BRIEF

John Olsen has a PhD in mathematics and two years' experience as a university professor. He has taught several introductory and upper level undergraduate mathematics courses including geometry, financial mathematics, probability and calculus. He has given 10 invited lectures at international conferences and research institutions. In his research Mr. Olsen has applied topological methods to study the geometry of manifolds.

EDUCATION

- 2009 **PhD Mathematics** the University of Pennsylvania.
Research interests: Riemannian geometry, algebraic topology, Morse Theory.
Thesis: Three Dimensional Manifolds All of Whose Geodesics Are Closed.
Advisor: Prof. Wolfgang Ziller.
- 2004 **M.Sc. Mathematics** Aarhus University.
- 2002 **B.Sc. Mathematics** Aarhus University.
Minor: Physics and chemistry.

WORK EXPERIENCE

- 07/2009– *Visiting Assistant Professor* at the University of Rochester.
Duties: Mathematical research; teach undergraduate mathematics: give lectures, write and grade exams, assign homework, host office hours.
Courses Taught: Financial Mathematics, Introduction to Geometry, Differential Geometry II and Calculus I, II and IIa. PhD reading course in hyperbolic geometry. Supervised a writing project in mathematics education and organized a seminar in Morse Theory.
- 09/2007–07/2009 *PhD Candidate* at the University of Pennsylvania.
Duties: Mathematical research; teach undergraduate mathematics: give lectures, hold problem sessions, write and grade exams, assign and grade homework, host office hours.
Courses Taught: Lecturer: Calculus III and Calculus II. Teaching Assistant: Calculus III.
- 09/2006–03/2007 *Visiting Research Scholar* at the University of Pennsylvania.
Duties: Mathematical research.
- 02/2006–05/2006 *Visiting Research Scholar* at the University of Maryland.
Duties: Mathematical research.
- 09/2004–08/2007 *Scientific Assistant* at the University of Münster.
Duties: Mathematical research; teach undergraduate mathematics: organize problem sessions, hold problem sessions, prepare homework and exams, hold review sessions, grade homework and exams and assist during oral examinations.
Courses Taught: Course Coordinator: Mathematical Analysis 4. Teaching Assistant: Mathematical Analysis 1.

06/2002–06/2004 *Outreach Coordinator* at the Department of Mathematics, Aarhus University. I was responsible for the High School Visiting Program and the Science Popularization Project.

Duties: Organize visits with the high schools, organize events for the Science Popularization Project and work with the department chairman to expand and improve the activities. As part of the High School Visiting Program I gave lectures and organized problem sessions. Our main aim was to get gifted students interested in mathematics by giving talks about advanced mathematical topics. As part of the Science Popularization Project I talked to secondary school children about various interesting (and entertaining!) mathematical topics.

06/2000–08/2002 *Mailman* at Post Danmark.

04/1999–08/1999 *Civil Service* at Studentersamfundet, Aalborg University.

Duties: Assigned office work; salesclerk in the bookstore.

SKILLS

LANGUAGE FLUENCY: Danish (native), English (fluent) and German (fluent).

COMPUTER SKILLS: Advanced: WeBWorK, L^AT_EX. Basic: Java and C# programming, SAS.

PUBLICATIONS

RESEARCH

Three Dimensional Manifolds All of Whose Geodesics Are Closed. Published by the Annals of Global Analysis and Geometry. Available at <http://www.springerlink.com/content/5q56jw1665415617/>

LECTURE NOTES

The Geometry of Möbius Transformations. Available at <http://www.johno.dk/mathematics/moebius.pdf>.

TEACHING WORKSHOPS

09/2008–04/2009 Participated in five teaching workshops sponsored by the Center for Teaching and Learning, University of Pennsylvania.

08/2007 Participated in the “TA Training” workshop, Department of Mathematics, University of Pennsylvania.

OTHER INTERESTS

Being outdoors and active is important to me. I especially enjoy biking and running, and regularly compete in races in both disciplines. I have obtained several very good results, including running 2:49:57 at the Boston Marathon. Such results demonstrate my dedication and drive to achieve ambitious goals.

REFERENCES

Prof. Allan Greenleaf, University of Rochester Current employer
 Email: allan@math.rochester.edu Phone: (585) 275-4411.

Prof. Wolfgang Ziller, University of Pennsylvania Thesis advisor
 Email: wziller@math.upenn.edu Phone: (215) 898-8178.

Prof. Karsten Grove, University of Notre Dame Research reference
 Email: kgrove2@nd.edu Phone: (574) 631-7245.

Prof. Jonathan Pakianathan, University of Rochester Teaching reference
 Email: jonpak@math.rochester.edu Phone: (585) 275-4411.