# Kelly Ann Jabbusch

---

| CONTACT INFORMATION | Department of Mathematics<br>KTH<br>10044 Stockholm | Email: jabbusch@math.kth.se<br>Personal Telephone: + 46 (0) 7384 40 868<br>Office Telephone: + 46 (0) 8790 6652<br>`www.math.kth.se/~jabbusch` |
| --- | --- | --- |

**EDUCATION**

**University of Washington**, Seattle, WA — June 2007

*Ph.D. in Mathematics*
- Thesis: *Notions of Positivity for Vector Bundles.*
- Advisor: Sándor Kovács.

**Willamette University**, Salem, OR — May 2000

*B.A. in Mathematics and German*
Graduated *Magna Cum Laude*

**ACADEMIC POSITIONS**

**Department of Mathematics, KTH**, Stockholm
Göran Gustafsson Postdoctoral Fellow — June 2010 - Present
Post-doctoral Researcher in Algebra and Geometry — October 2009 - May 2010

**Mathematics Institute, University of Freiburg** — November 2008 - September 2009
Post-Doctoral Researcher in the DFG Research Group
*Classification of Algebraic Surfaces and Compact Complex Manifolds.*

**Mathematical Sciences Research Institute**, Berkeley, CA — March - May 2009
Research Member for the program in Algebraic Geometry.

**Mathematics Institute, University of Cologne** — June 2007 - October 2008
Post-Doctoral Researcher in the DFG Research Group
*Classification of Algebraic Surfaces and Compact Complex Manifolds.*

**PUBLICATIONS**

S. DI ROCCO, K. JABBUSCH, G. SMITH: *Ample vector bundles on smooth toric varieties.* In preparation.

K. JABBUSCH AND S. KEBEKUS: *Families over special base manifolds and a conjecture of Campana.* Mathematische Zeitschrift, 2010, available on-line at http://dx.doi.org/10.1007/s00209-010-0758-6.

K. JABBUSCH AND S. KEBEKUS: *Positive sheaves of differentials coming from coarse moduli spaces.* To appear in Annales de l'Institut Fourier (also available at arXiv:math.AG/0904.2445).

K. JABBUSCH: *Positivity of cotangent bundles.* Michigan Math. J., Vol. 58(3), 2009, pp 723-744.

C. CADMAN, I. COSKUN, K. JABBUSCH, M. JOYCE, S. KOVÁCS, M. LIEBLICH, F. SATO, M. SZCZENSNY, AND J. ZHANG: *A first glimpse at the minimal model program.* Snowbird Lectures in Algebraic Geometry, Contemporary Mathematics, Vol. 388, AMS, 2005, pp 17-42.

**HONORS AND AWARDS**

**P.E.O. Scholar Award** — Autumn 2006
Awarded by P.E.O. in support of female dissertation candidates

**VIGRE Graduate Research Fellowship** — Autumn 2005 - Spring 2006
University of Washington Mathematics Department

**Huckabay Fellow** Winter 2004
Fellowship from the University of Washington Graduate School to work on a project focused on teaching; created a handbook for TAs teaching Math 111/112, the business calculus sequence.

**Excellence in Teaching Award** Autumn 2003
University of Washington Mathematics Department

**Phi Beta Kappa** Spring 1999

INVITED TALKS    **MFO Mini-Workshop: Linear Series on Algebraic Varieties** October 2010

**AWM Workshop: Research Presentations by Recent Ph.D.'s** January 2010
Joint Mathematics Meetings, San Francisco

**Algebra and Geometry Seminar**, KTH-Stockholm University November 2009

**Algebra and Algebraic Geometry Seminar**, University of Washington September 2008

**Algebraic Geometry Seminar**, University of Liverpool December 2007

**Seminar Algebraic Geometry**, Max Planck Institute for Mathematics, Bonn November 2007

**Algebraic Geometry Seminar**, University of Bayreuth November 2007

**Complex Geometry Seminar**, University of Cologne October 2007

**Meeting of the DFG** *Classification of Algebraic Surfaces and* July 2007
*Compact Complex Manifolds*

TEACHING
EXPERIENCE    **Assistant for Commutative Algebra and Algebraic Geometry** (KTH) Fall 2010
Created and led an Exercise Session for this upper undergraduate course.

**Mini Course on *Positivity in Algebraic Geometry*** (KTH) Fall 2009
Gave a series of lectures to graduate students, post-docs and faculty.

**Grader for Math 506 - Modern Algebra** (UW) Spring 2007
Graded homework and held office hours for the graduate algebra course.

**Instructor for Math 308 - Matrix Algebra with Applications** (UW) Autumn 2006
Lectured three times a week, wrote and graded quizzes and exams and held office hours.

**Instructor for Math 111 - Algebra with Applications** (UW) Summer 2003
Lectured four times a week, wrote and graded quizzes and exams, held office hours and supervised one teaching assistant.

**Teaching Assistant Positions** (UW):
Taught quiz sections twice weekly, graded quizzes and held office hours.
- **Math 111 - Algebra with Applications** Winter 2001, Winter 2002, Winter 2003, Autumn 2003
- **Math 112 - Application of Calculus to Business and Economics** Spring 2003
- **Math 120 - Pre-calculus** Autumn 2000, Spring 2001, Summer 2001, Spring 2002
- **Math 126 - Calculus III** Winter 2007

| | | |
|---|---|---|
| TEACHING RELATED EXPERIENCE | **Lead Teaching Assistant** | Spring 2004 - Autumn 2005 |

**Lead Teaching Assistant**          Spring 2004 - Autumn 2005
Acted as a liaison between the University of Washington mathematics teaching assistants and the faculty; worked with the faculty Teaching Assistant Coordinator to plan and lead the four-day departmental TA training for thirty new TAs before classes start in Autumn.

**Senior TA Workshop Facilitator**          9/2003, 9/2004, 9/2005, 9/2006
Led workshops for the University of Washington's Center for Instructional Design and Research's *TA Conference on Teaching and Learning* covering different aspects of teaching and served on the Experienced Graduate Student Panel.

**Mentor for new Teaching Assistants**      Autumn 2002, Autumn 2004, Autumn 2005
Met regularly with a group of mathematics TAs, observed their classes, and helped them gather feedback from their students.

CONFERENCES AND WORKSHOPS ATTENDED

**Linear Series on Algebraic Varieties**, MFO Mini-Workshop      October 2010

**Moduli Spaces and Birational Geometry**      June 2010
AMS Mathematical Research Community, Snowbird Utah

**AWM Workshop for Women Graduate Students and Recent PhDs**      January 2010

**MSRI Program in Algebraic Geometry**      March-May 2009

**Higher Dimensional Algebraic Geometry**, MFO Seminar      October 2008

**60 Miles**, London Mathematical Society      July 2008

**Workshop on Rational Curves on Quasi-Projective Manifolds**,      May 2008
Max Planck Institute for Mathematics, Bonn

**Higher Dimensional Minimal Model Program**,      December 2007
University of Warwick Mathematics Research Centre

**Complex Algebraic Varieties**, MFO Workshop      October 2007

**Rational Curves on Algebraic Varieties**, AIM Workshop      May 2007

**Moduli Spaces and Arcs in Algebraic Geometry**, University of Cologne      August 2006

**Recent Trends in Higher Dimensional Geometry**, BIRS      April 2006

**Winter Conference on Arithmetic, Algebraic and Symplectic Geometry**, December 2005
University of Miami

**AMS Summer Institute in Algebraic Geometry**      July 2005
(including Graduate Student Warm-Up Workshop), University of Washington

**Western Algebraic Geometry Seminar (WAGS)**      biannually Spring 2003 - Spring 2007
various locations

| | | |
|---|---|---|
| ORGANIZATIONAL<br>ACTIVITIES | **Western Algebraic Geometry Seminar**, University of Washington<br>Co-organizer | Spring 2007 |
| | **Algebraic Geometry Seminar**, University of Washington<br>Organizer | Fall 2006 - Winter 2007 |
| SERVICE | **Graduate Student Representative**<br>Represented graduate students on the UW Mathematics Department Graduate Program Committee. | Summer 2006 - Spring 2007 |
| | **Coordinator for SIMUW**<br>Planned weekend and weekday activities for high school students attending *Summer Institute for Mathematics at University of Washington*. | Summer 2005 and Summer 2006 |