

## **Jacqueline Jensen**

Assistant Professor  
Mathematics & Statistics  
Sam Houston State University

### **Degrees Earned**

Ph.D. in Mathematics, Dissertation, "Finding  $\pi_2$ -Generators for Exotic Homotopy Types of Two-Complexes," under the direction of Professor Micheal Dyer. University of Oregon, August 2002.

M.S. in Mathematics, University of Oregon, June 1998.

B.A. in Mathematics, University of Connecticut, Storrs, December 1995.

B.A. in Psychology, University of Connecticut, Storrs, December 1995.

### **Peer-Review Publications and Artistic Performances/Exhibitions**

#### **Articles**

Garcia, Rebecca and Jensen, J.A. **Encouraging Women in Mathematics and Science**, submitted.

Brittenham, Mark and Jensen, J.A. **Canonical Genus and Whitehead Doubles of Pretzel Knots**, submitted.

Brittenham, Mark and Jensen, J.A. **Families of Knots for which Morton's Inequality is Strict**, to appear, *Communications in Analysis and Geometry*, December 2007.

Harlander, Jens and Jensen, J.A. **Exotic relation modules and homotopy types for the (2,3)-Baumslag-Solitar Group**, *Algebraic & Geometric Topology* **6** (2006), 2163 - 3173.

Jensen, J.A. **Surprising Effects of Inquiry Based Learning**, *Texas College Mathematics Journal*, Volume 3, Number 1, 1-9.

Harlander, Jens and Jensen, J.A. **On the Homotopy Type of CW-Complexes with Aspherical Fundamental Group**, *Topology and Its Applications*, **153**, 3000 - 3006.

Crouch, Christy Sue and Jensen, J.A. **Which came first: e or ln?**, in preparation.

Jensen, J.A. **A Magnus Embedding Theorem for Second Homotopy Modules**, *Texas Project NEXt Journal*, Volume 2 (2004), Number 1, Pages 1-10.

#### **Funded External Grants**

**Piney Woods Lecture Series**, Application to MAA/Tensor Foundation grant for the enhancement of woman's participation in the mathematical sciences, February, 2007. Funded \$3000.

**Third Annual Texas Undergraduate Mathematics Conference**, Application to MAA for Regional Undergraduate Mathematics Conference Grant, March, 2007. Funded \$2500.

**MAA Diversity Initiative Travel Grant for Students to Attend the 2007 Joint Mathematics Meetings in New Orleans, LA**, December 2006. Funded \$804.

**Piney Woods Lecture Series**, Application to MAA/Tensor Foundation grant for the enhancement of woman's participation in the mathematical sciences, February, 2006. Funded \$3000.

**Second Annual Texas Undergraduate Mathematics Conference**, Application to MAA for Regional Undergraduate Mathematics Conference Grant, January, 2006. Funded \$2000.

**MAA Diversity Initiative Travel Grant for Students to Attend the 2006 Joint Mathematics Meetings in San Antonio, TX**, December 2005. Funded \$1500.

**Women's Travel Grant**, Application to MAA/Tensor Foundation grant for the enhancement of woman's participation in the mathematical sciences. February 2005. Funded \$2000.

**Inaugural Texas Undergraduate Mathematics Conference**, Application to MAA for Undergraduate Mathematics Conference Grant, October 2004. Funded June 2005, \$2000.

**Women's Travel Grant**, Application to MAA / Tensor Foundation grant for the enhancement of woman's participation in the mathematical sciences. Funded \$3500.

**MAA Diversity Initiative Travel Grant for Students to Attend the 2005 Joint Mathematics Meetings in Atlanta, GA**, December 2004. Funded \$500.

**MAA Diversity Initiative Travel Grant for Students to Attend the 2004 Joint Mathematics Meetings in Phoenix, AZ**, December 2003. Funded \$500.

#### **Peer-Review Presentations/Posters**

**Canonical Genus of Whitehead Doubles of Arborescent Knots**, AMS Southeastern Section Meeting, Baton Rouge, LA, March 2008.

**Whitehead Doubles of Arborescent Knots**, Topology Seminar, Rice University, Houston, TX, January 2008.

**The Canonical Genus of Whitehead Doubles of Pretzel Knots**, Colloquium, Sam Houston State University, Huntsville, TX, September 2007.

**The Canonical Genus of Whitehead Doubles of Certain Knots**, Summer Mathematics Program (REU), Carleton College, Northfield, MN, July 2007.

**What Can a Math Degree Do For You**, Blinn College Mu Alpha Theta Induction ceremony. Blinn College, Brenham, TX, April 2007.

**Mathematically Celtic Knots**, University of Dallas Colloquium, Irving, TX, March 2006.

**On the Homotopy Type of CW-Complexes with Aspherical Fundamental Group**, Meeting of the AMS Southeastern Section, Bowling Green, KY, March 2005.

**Building Two-complexes From Group Presentations**, Colloquium, Texas State University - San Marcos, San Marcos, TX, January 2005.

**Undergraduate Research**, Fall Meeting of Texas Project NExT Fellows, Sam Houston State University, Huntsville, TX, October 2004.

**Generators of Certain Second Homotopy Modules**, Mathematics Lectureship Series, Texas Christian University, Fort Worth, TX, September 2004.

**Classifying Celtic Knots**, Parabola (Undergraduate Mathematics Forum), Texas Christian University, Fort Worth, TX, September 2004.

**On the Homotopy Classification of 2-Complexes**, Topology Seminar, Rice University, Houston, TX, March 2004.

**On the Homotopy Classification of 2-Complexes**, AMS Special Session on Low Dimensional Topology, Joint Mathematics Meetings, January 2004.

**Further Examples of Homotopy Inequivalent 2-Complexes**, AMS Special Session on Low Dimensional Topology, Joint Mathematics Meetings, January 2002.

**Applications of the Magnus Embedding Theorem**. University of Oregon Topology / Geometry Seminar, October 2001.

### **Work or Professional Experiences**

**AMS Short Course on Applications of Knot Theory**, San Diego, CA, January 2008.

**MAA PREP workshop on Beginning an Emerging Scholar's Program**, Austin, TX, June 2007.

**MAA PREP workshop on Knot Theory**, Wake Forest, NC, June 2003.

**Project NExT Fellow**, 2002 – 2004, participated in workshops for new faculty members.

**Texas Section Project NExT Fellow**, 2002 – 2004, participated in regional workshops for new faculty members.

### **Honors and Awards**

**Faculty Award for Outstanding Contributions to Students**, Texas Section of the Mathematical Association of America, April 2006.

**Recognized for Outstanding Contributions to the College of Arts & Sciences** by Dean Brian Chapman, 2003 - 2004