

# Michael S. Jacobson

## Professor & Chair

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## EDUCATION

1980	Ph.D. Mathematics	Emory University
1977	M.S. Mathematics	Emory University
1975	B.S. Mathematics	State University of New York at Stony Brook

## ACADEMIC EXPERIENCE

July 2003 – present	<b>Chairman</b> , Department of Mathematical & Statistical Sciences – University of Colorado Denver (The Department, one of two doctoral departments in CLAS has 23 faculty, 30 GTA/RAs, 40-50 part time grad students and 20-25 part-time instructors.)
Nov. 1997 – June. 2003	<b>Associate Dean for Research &amp; Graduate Studies</b> , College of Arts & Sciences – UofL (Oversaw funded and unfunded research for faculty as well as GTA distribution for the college. I ran a small internal grant program and maintained the research ethics and oversaw the related research compliance policies of the college faculty.)
July 1995 – June 2000	<b>Chairman</b> , Department of Mathematics – UofL (The Mathematics Department had 26 faculty, 23 GTAs and 20-25 part-time instructors.)
July 1988 – June 2003	<b>Professor</b> , Department of Mathematics - UofL
June 1986 - June 1988	<b>Acting Chairman</b> , Department of Mathematics - UofL
July 1984 - June 1986	<b>Associate Professor &amp; Vice Chair</b> , Department of Mathematics - UofL
July 1980 - June 1984	<b>Assistant Professor</b> , Department of Mathematics – UofL

## AREAS OF RESEARCH INTEREST

Combinatorics and Graph Theory

Mathematics, Science and Computer Science taught in grades K-12, and teacher training

## PROFESSIONAL MEMBERSHIPS

MAA, AMS, SIAM, NCTM

Founding Fellow of the Institute for Combinatorics and Applications

## DOCTORAL STUDENTS

- Arthur Busch, *Arc Traceable Digraphs*, May, 2005
- John Wiegand, *On Size Bounds for  $K_t$ -free graphs*, December 2006
- Jesse Gilbert, *Irregular Strength of Digraphs*, May 2008
- Angela Harris, *On H-Avoiding Graphs*, expected May 2009
- Craig Tennenhouse, *Some Extensions of Saturation to Edge Colored and Oriented Graphs*, May 2010

## RECENT INVITED ADDRESSES

- Hikoe Enomoto 60<sup>th</sup> Birthday Conference, Tokyo, Japan - 2005
- Wuhan Workshop on Paths and Cycles, Wuhan, China – 2005
- Invited Lecture – Special Session - SIAM, Victoria, Canada – 2006
- ExcIII – Invited Speaker, University of Illinois – 2006
- ACCOTA – Invited Speaker, Puerto Vallarta, Mexico – 2006
- 20<sup>th</sup> Cumberland Conference – Invited Speaker, Atlanta, GA – 2007
- Special Session – AMS – Invited Speaker & Organizer, San Diego, CA – 2008
- SIAM Discrete Mathematics Conference – Invited Speaker, Burlington, VT. – 2008
- Colloquium, “Games on Graphs”, East China University – 11/2008
- Colloquium, “Combinatorial Games”, Jiangsu Institute of Education – 11/2008
- ACCOTA – Invited Speaker, Oaxaca, Mexico – 2008
- Invited Panel Member & Organizer – NSF – MSP, Washington, D.C. - 2009
- Invited Lecture & Organizer – Special Session - SIAM, Denver, Colorado – 2009

## RECENT EXTRAMURAL FUNDING

*16th Cumberland Conference (co-pi),*  
Office of Naval Research, co-PI, awarded \$15,000, May 2004.

*Rocky Mountain Middle School Math/Science Partnership,*  
National Science Foundation, (co-PI), awarded \$12,500,000, 2004 - 2009.

*Graph Theory with Altitude,*  
National Security Agency, co-PI, funded \$15,000, 2005

*CDE-Math/Science Partnership: PLASMID,*  
Colorado Department of Education, co-PI, awarded \$597,627, 2007 - 2010.

***Transforming Experiences: Interdisciplinary Teams of GK-12 Fellows,***  
National Science Foundation, PI, awarded \$2,820,000, 2008 - 2013.

*Strategic Knowledge Investigations (SKI Teams),*  
National Science Foundation, (co-PI), pending \$12,438,153, 2010 - 2014.

## PROFESSIONAL ACTIVITIES

**Referee for:** Ars Combinatoria, Discrete Mathematics, Graphs and Combinatorics, Journal of Graph Theory, Networks, SIAM Journal of Applied Discrete Mathematics, SIAM Proceedings of Conference on Discrete Mathematics, Utilitas Mathematica, National Science Foundation, National Security Agency (AMS), Natural Science and Engineering Research Council of Canada

### **Editorial Duties:**

Co-editor of "Surveys in Graph Theory" published by Utilitas  
Mathematics Publishing Co., August 1996.

Discussiones Mathematicae: Graph Theory (Editorial Board)

Co-guest editor of "Discrete Mathematics" published North Holland  
Publishing Co., Vol.206, Numbers 1-3, August 1999.

### **Review for:**

Math Reviews

**PUBLICATIONS:** See Publication List

**REFERENCES ON REQUEST**