

# Leigh L. Noble

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## Education

- PhD in Mathematics, minor in Mechanics and Materials Science; Advisor: Chi-Sing Man University of Kentucky, Lexington KY; December 2004; GPA: 3.8/4.0
- MA in Mathematics; University of Kentucky, Lexington KY; December 1998; GPA: 3.9/4.0
- BS in Mathematics, minor in Chemical and Physical Science; Meredith College, Raleigh NC; August 1995; GPA: 3.9/4.0

## Publications

- “Recovery of through-thickness texture profiles in sheet metals by resonance spectroscopy.” Leigh L. Noble, Chi-Sing Man and Gen Nakamura. In D.O. Thompson and D.E. Chimenti, editors, *Review of Progress in Quantitative Nondestructive Evaluation*, volume 23, pp. 1232-1239. AIP, 2004
- “Designing textured polycrystals with specific isotropic material tensors: the ODF method.” Chi-Sing Man and Leigh Noble. *Università e Politecnico di Torino. Seminario Matematico. Rendiconti*. **58**, 155–170 (2000)

## Research Experience

- Research Assistant for Chi-Sing Man; University of Kentucky Department of Math; Summer and Fall 1998, Spring and Summer 1999, Spring and Fall 2000, Spring 2001, Spring and Summer 2002, Spring and Summer 2003
- Graduate Fellow; Idaho National Engineering and Environmental Laboratory; Summer 2000; experimented with acoustoelasticity at their facilities

## Presentations

- “Recovery of texture coefficients as functions of depth in sheet metals” at the 2004 SIAM Annual Meeting; Portland OR; July 2004
- “Recovery of through-thickness texture profiles in sheet metals by resonance spectroscopy” poster with Chi-Sing Man at the 30th Annual Review of Progress in Quantitative Non-destructive Evaluation Conference; Green Bay WI; July 2003
- “Introduction to quantitative texture analysis” at the Fifteenth Annual Eastern Kentucky University Symposium in the Mathematical, Statistical, and Computer Sciences; Richmond KY; April 2001
- “What do aluminum cans and cars have to do with infinite series and vector spaces?” to undergraduates at Birmingham-Southern College; Birmingham AL; March 2001

## Awards and Honors

- Best Graduate Student Presenter; Fifteenth Annual Eastern Kentucky University Symposium in the Mathematical, Statistical, and Computer Sciences; Eastern Kentucky University, Richmond KY; April 2001
- Non-service Fellowship; University of Kentucky; 1996 academic year
- Graduated *Summa Cum Laude*; Meredith College; 1995
- Pi Mu Epsilon Mathematics Honor Society; inducted Spring 1994
- E. F. Canaday Mathematics Scholarship; Meredith College; 1993 and 1994 academic years

## Computer Experience

- Linux/Unix operating systems
- Microsoft Windows XP and various Microsoft Office applications
- Matlab and Maple, including writing functions and procedures;  $\text{\LaTeX}$

## Teaching Experience

- Recitation Instructor—Elementary Calculus and Its Applications; University of Kentucky, Fall 2002  
Led problem sessions to supplement mass lectures. Prepared and graded weekly quizzes and shared responsibility for grading exams. Gave individual responses to student questions submitted through the University of Kentucky's WQS homework system using email.
- Instructor—College Algebra; University of Kentucky, Fall 2001  
Prepared syllabus, lectured, graded and assigned final grades. Worked with course coordinator to ensure consistency with similar sections.
- Assistant Instructor—College Algebra; Jefferson Community College, Louisville KY, Fall 2001  
Monitored online forum, responded to student questions, and assisted in guiding discussion for this internet-administered distance learning course.
- Instructor—Introduction to Linear Algebra; University of Kentucky, Summer 2001  
Prepared syllabus, lectured, assigned homework, wrote exams, graded, and assigned final grades for this 300 level course.
- Instructor—Intermediate Algebra; University of Kentucky, Fall 1999  
Prepared syllabus, lectured, assigned homework, wrote exams, graded, and assigned final grades for this remedial course.
- Recitation Instructor—Calculus II; University of Kentucky, Fall 1997 and Spring 1998  
Led recitations in a computer lab to supplement standard lectures. Incorporated Maple into concept exploration, prepared and graded weekly quizzes, and graded homework.

## Other Experience

- Tutor; Brainfuse Online Tutoring, New York, NY; October 2004 – current  
Tutor fifth through eleventh graders in mathematics using online forum.
- Instructor; Huntington Learning Center, Cary NC; January – August 1996  
Tutored third through tenth graders in mathematics and reading.
- Science Laboratory Technician; Durham Technical Community College, Durham NC;  
October 1995 – August 1996 and December 1991 – November 1993  
Prepared chemical solutions and biological reagents for science classes using proper MSDS safety procedures. Prepared microbiological media for freshman level laboratory courses. Maintained equipment and prepared all physics apparatus for use.
- Technical Support Representative; Intersolv, Morrisville NC (bought by Merant);  
June 1994 – February 1995  
Assisted end-users via telephone with installation, usage, and functionality of database access software capable of connecting to over 30 database systems using ODBC drivers.

## Professional Affiliations

- American Mathematical Society; member since 1996
- Society for Industrial and Applied Mathematics; member since 1997

## Professional Service

- Member, Math Department Chair Search Committee; University of Kentucky; Fall 1999
- Member, Math Department Graduate Student Council; University of Kentucky; 1999 academic year
- Organized and co-taught WindowsNT orientation for returning math graduate students; University of Kentucky; Fall 1999
- Treasurer, Canaday Math/Computer Science Club; Meredith College; 1994 academic year

## Community Service

- Co-founder and Leader; Lexington Dress & Gender Alliance, Lexington KY;  
April 2002 – June 2003  
Peer social support group for transgendered persons, their significant others, friends, families, and community allies; now meeting as Lexington Diversity in Gender Alliance
- Board Member; Lexington Gay and Lesbian Service Organization, Lexington KY;  
January 2002 – March 2003  
Committed to improving the quality of life of the gay, lesbian, bisexual and transgendered community and their families of Central and Eastern Kentucky.
- Volunteer; Moveable Feast, Lexington KY; October 1998 – February 2003  
Dedicated to cooking and delivering hot meals to people with AIDS

## Conferences Attended

- AMS Annual Meeting, Atlanta GA; January 2005
- SIAM Annual Meeting, Portland OR; July 2004
- SIAM Conference on Mathematics for Industry, Toronto ON; October 2003
- Thirtieth Annual Review of Progress in Quantitative Nondestructive Evaluation Conference; Green Bay WI; July 2003
- Fourteenth US National Congress of Theoretical and Applied Mechanics, Blacksburg VA; June 2002
- Fifteenth Annual Eastern Kentucky University Symposium in the Mathematical, Statistical, and Computer Sciences; Richmond KY; April 2001
- AMS Annual Meeting, New Orleans LA; January 2001
- SIAM Math-In-Industry Workshop, Claremont CA; June 1999
- SIAM Annual Meeting, Atlanta GA; May 1999
- AMS Sectional Meeting, Louisville KY; March 1998
- MAA Sectional Meeting, Asheville NC; 1995
- Math Modeling Seminar at Davidson College; Davidson NC; 1994