Anne M. Dougherty

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Education

Ph.D. in Mathematics, 1994, University of Wisconsin| Madison.
Area of specialization: Analysis and Probability; minor in Chemistry.
Thesis: Averaging and di usion approximations for stochastic network models.
Advisor: Thomas G. Kurtz.

M.S. in Mathematics, 1985, Oregon State University, Corvallis, Oregon.
Area of specialization: Algebra and Topology.
Thesis: Relative Rigidity in Abstract Witt Rings. Advisor: Bill Jacob.

B.S. in Chemistry and Mathematics, summa cum laude, 1981, Texas Christian University.

Professional Experience

7/12 to present. Senior Instructor, Associate Chair, and J.R. Woodhull/Logicon Teaching Professor of Applied Mathematics, Department of Applied Mathematics, CU Boulder.

7/00 to 6/12. Senior Instructor and Associate Chair, Department of Applied Mathematics, CU Boulder.

8/98 to 6/00. Senior Instructor, Department of Applied Mathematics, CU Boulder.

8/94 to 8/98. Instructor, Department of Applied Mathematics, University of Colorado, Boulder. Courses taught include calculus, junior and graduate-level probability and senior-level statistics classes. Faculty advisor for the undergraduate SIAM chapter. Probability and statistics prelim-exam committee member.

8/84 to 12/93. Teaching Assistant and Research Assistant, University of Wisconsin, Madison. Courses taught include college algebra, business calculus and 3 semesters of calculus.

Grants

PI, NSF grant, EXTREEMS - QED: Directions in Data Discovery (Data Cubed) in Undergraduate Education, DMS-1407340, Aug 2014-July 2017.

ASSETT Development Award for \AMESS Upgrade of online submission tool", 2010. Co-PI, NSF grant, CCLI-Phase 2: Colorado Momentum: Oral Assessment in the Mathematical Sciences Classroom, 2008-2010.

Co-PI, NSF grant, MCTP: Colorado Advantage, 2006-2011.

Co-PI, CU-Boulder Outreach Committee grant, Colorado Math Circle for Advanced High School Students, AY 2006-07 to 2013-14.

Sub-contractor to Boulder Valley School District, Boulder Partnership for Excellence in Mathematics Education, Colorado Department of Education grant, 2006-2008.

Outreach director for outreach supplement to Applied Math's NSF VIGRE grant, 2003-2006. (PI: James Meiss.)

University of Colorado at Boulder Outreach Grants, 2001-2004, to support the Summer Institute in Applied Mathematics for High School Teachers.

University of Colorado at Boulder Outreach Grant, 1999-2000, *Bridging the Gap between High School and College Mathematics*, with Mary Nelson and James Curry.

Investigator, NSF grant, *Synergistic Visual/Haptic Computer Interfaces*, 1997-1999.

University of Colorado at Boulder Outreach Grant, 1997-98, *Identi cation of High School Students Likely to have Di culty with Calculus I.*

Invited participant, NSF sponsored workshop on Mathematical Techniques to Mine Massive Data Sets, 1997.

Undergraduate Excellence Fund Grant, 1996. *Early Identi cation of Students*

Likely to have Difficulty with Calculus I

F. Infed, S. W. Brown, C. D. Lee D. A. Lawrence, A. M. Dougherty, L. Y. Pao (1999). Combined visual/haptic rendering modes for scienti c visualization, *Proc. ASME Dynamic Systems and Control Division*, DSC-Vol. 67, pp 93-99, at the *Int. Mech. Engr. Cong. & Expo.,* Nashville, TN, Nov. 1999.

Wei Xu, A. M. Dougherty, R. B. Corotis (1998). Extreme value theory| Applications to

8/98 to present. Member of Applied Math's Undergraduate Committee (Chair since July 2000) and undergraduate faculty advisor.

8/95 to present. Faculty advisor (co-advisor since 2012) for the CU-Boulder undergraduate chapter of SIAM, including coordination of the Mathematical Contest in Modeling teams from 1997 through 2015 resulting in 16 Outstanding ratings (the highest possible) and 25 Meritorious ratings.

2001 to present. CU representative for the Goldwater Scholarship. During this period, 34 undergraduate CU students have been recipients of the Goldwater Scholarship.

8/00 to present. Applied Math's representative to the Undergraduate Education Council for the College of Engineering.

8/06 to present. Sponsor for the Colorado Math Circle, director is Silva Chang.