



## TERRY JO LEITERMAN

*Assistant Professor of Mathematics*

St. Norbert College  
Mathematics, Department 24  
100 Grant Street  
DePere, WI 54115

Email: [terryjo.leiterman@snc.edu](mailto:terryjo.leiterman@snc.edu)  
Phone: 920.403.2952  
Fax: 920.403.4098

### EDUCATION

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PH.D. IN MATHEMATICS, UNIVERSITY OF NORTH CAROLINA, CHAPEL HILL, NC, AUGUST 2006

THESIS TITLE: “Mixing properties of exact and asymptotic low Reynolds, time-varying solutions for spinning nano-rods and biological applications to ciliary function”

ADVISORS: Dr. Richard M. McLaughlin & Dr. Roberto Camassa

B.S. IN MATHEMATICS, UNIVERSITY OF WISCONSIN, OSHKOSH, WI, MAY 1999

### GRANTS AND HONORS

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PROJECT NEXT FELLOW, August 2006–present

ALUMNI SUPPORT FOR SUMMER RESEARCH PROGRAM IN MATHEMATICS, May–October 2008  
*Received \$18,000 from alumni to support summer research (stipends, housing, and travel) by undergraduates in mathematics at St. Norbert College.*

NSF-RUMC GRANT, November 2007, November 2008  
*Granted \$2000 from the National Science Foundation to support the SNC Regional Pi Mu Epsilon conference. This is co-directed with Dr. Richard Poss.*

NOMINATED FOR THE EDUCATOR OF THE YEAR AWARD, 2007, 2008  
*Recognized by one MATH 115 Pre-Calculus student (2007) and three MATH 310 Differential Equations students (2008) as a candidate for the annual SNC honor.*

SNC FACULTY DEVELOPMENT FUND AWARD, April 2008

*Received \$350 for travel to the MAA WI Section Meeting in Madison, WI to give a research talk, a teaching talk, and attend two mentored student presentations.*

SNC FACULTY DEVELOPMENT FUND AWARD, January 2007

*Received \$500 for travel to the Joint Mathematical Meetings in New Orleans, LA to present research poster, attend workshops, and judge undergraduate poster session.*

SNC INSTRUCTIONAL SUPPORT, September 2008

*Received \$1350 to purchase equipment for fluid mechanics laboratory lessons in MATH 310.*

FUNDAMENTALS OF GRANT SEEKING WORKSHOP, St. Norbert College, Summer 2007

*Attended SNC workshop co-directed by Jeremy Minor & Kelly Bahl-Stahl and received \$200 in professional development funds.*

## PUBLICATIONS

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R. CAMASSA, T.J. LEITERMAN, R.M. MCCLAUGHLIN (2008), "Trajectory and flow properties for a rod spinning in a viscous fluid. Part I: An exact solution." *J. Fluid Mechanics*. **612**, 153–200 (*Graphic on issue cover.*)

R. CAMASSA, T.J. LEITERMAN, R.M. MCCLAUGHLIN, "Trajectory and flow properties for a rod spinning in a viscous fluid. Part 2: An asymptotic solution with a no-slip plane", in preparation for *The Journal of Fluid Mechanics*.

E. BOUZARTH, A. BROOKS, R. CAMASSA, H. JING, T.J. LEITERMAN, R.M. MCCLAUGHLIN, R. SUPERFINE, J. TOLEDO, L. VICCI (2007), "Epicyclic orbits in a viscous fluid about a precessing rod: Theory and experiments and the micro- and macro-scales", *Physical Review E*. **76**(1), DOI: 10.1103/PhysRevE.76.016313

T.J. LEITERMAN, R. POSS (2007), "Pi Mu Epsilon Student Presentations and Math Fest," *Proceedings of the Conference on Promoting Undergraduate Research in Mathematics* (American Mathematical Society, Rosemont, Illinois, September 2006) edited by J. Gallian.

H. CHENG, J. HUANG, T.J. LEITERMAN (2006), "An adaptive fast solver for the modified Helmholtz equation in two dimensions", *J. Comput. Phys.* **211**, 616–637.

J. BARDSLEY, V. KOROSTYSHEVSKLY, L.C. PARRA, S. LA VOIE, T.J. LEITERMAN, J. REESE, B. SONG (2001), "An Inverse Problem in X-Ray Radiography", *2001 Industrial Mathematics Modeling Workshop for Graduate Students*. North Carolina State University Technical Report No. CRSC-TR01-27, 1–15.

## PRESENTATIONS

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MATC MATH CLUB LECTURE SERIES, Madison, WI, February 2008

"How We Roll: The Theory and Construction of a Square Wheel Bicycle."

YOUNG MATHEMATICIAN'S NETWORK POSTER SESSION AT THE JOINT MATHEMATICS MEETING, Washington, D.C., January 2008 (*Poster*)

"Modeling Diatom Growth in Trout Lake."

MATHFEST, Madison, WI, August 2008 (*Accepted in Special Session: "Projects and Demonstrations that Enhance a Differential Equations Course"*)

"Getting Your Hands Wet in a Differential Equations Course."

MATHFEST, Madison, WI, August 2008 (*General Contributed Paper*)

"The Ultimate Class Project . . . and No Grade!"

MATHFEST, Madison, WI, August 2008 (*Exhibition Hall*)

"SNC Square Wheeled Bicycle"

MATHEMATICAL ASSOCIATION OF AMERICA WISCONSIN SECTION MEETING, Madison, WI, April 2008

"The Ultimate Class Project . . . and No Grade!"

MATHEMATICAL ASSOCIATION OF AMERICA WISCONSIN SECTION MEETING, Madison, WI, April 2008

"The Blakeslet Singularity."

COLLOQUIUM LECTURE SERIES, University of Wisconsin - Oshkosh, WI, November 2007

"Spinning Rods: Experiments and Theory."

MATHEMATICAL ASSOCIATION OF AMERICA WISCONSIN SECTION MEETING, Eau Claire, WI, April 2007

"Singularity Theory for the Motion of a Slender Body in a Viscous Fluid."

YOUNG MATHEMATICIAN'S NETWORK POSTER SESSION AT THE JOINT MATHEMATICS MEETING, New Orleans, LA, January 2007 (*Poster*)

"Spinning Rods: Experiments and Theory."

AMERICAN PHYSICAL SOCIETY MARCH MEETING, Baltimore, MD, March 2006

"Experimental and theoretical studies of mixing and transport due to the motion of a slender body sweeping out a cone."

PHYSICAL MATHEMATICS SEMINAR, Massachusetts Institute of Technology, Cambridge, MA, March 2006

"Spinning Rods: Experiments and Theory."

ASSOCIATION FOR WOMEN IN MATHEMATICS WORKSHOP AT THE JOINT MATHEMATICAL MEETINGS, San Antonio, TX, January 2006 (*Accepted Poster*)

"Spinning Rods: Experiments and Theory."

AMERICAN PHYSICAL SOCIETY DIVISION OF FLUIDS DYNAMICS ANNUAL MEETING, Chicago, IL, November 2005 (*Gallery of Fluid Motion Poster*)

"Fluid Phenomenon induced by Spinning Rods."

VIRTUAL LUNG MEETING, University of North Carolina, Chapel Hill, NC, March 2005  
 “Tangential and normal stresses for spheres and spheroids under uniform translations and rotations.”

AMERICAN PHYSICAL SOCIETY DIVISION OF FLUIDS DYNAMICS ANNUAL MEETING, Seattle, WA, November 2004 (*Gallery of Fluid Motion Poster*)  
 “Micro-fluidic mixing: Experiments with spinning nano-rods and an exact 3D time-varying hydrodynamic solution.”

SOUTHEASTERN ATLANTIC MATHEMATICAL SCIENCES WORKSHOP, College of Charleston, Charleston, SC, September 2004  
 “An exact solution for the motion of a slender body sweeping a cone in a viscous fluid”

VIRTUAL LUNG MEETING, University of North Carolina, Chapel Hill, NC, September 2004  
 “An exact solution for the motion of a slender body sweeping a cone in a viscous fluid”

AMERICAN MATHEMATICAL SOCIETY SECTIONAL MEETING, University of North Carolina, Chapel Hill, NC, October 2003 (*Poster*)  
 “An adaptive fast solver for the modified Helmholtz equation in two dimensions”

GRADUATE MATHEMATICS ASSOCIATION SEMINAR, University of North Carolina, Chapel Hill, NC, February 2001  
 “Conservation laws, shocks, and the Rankine Hugoniot condition”

## TEACHING EXPERIENCE

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ASSISTANT PROFESSOR, Mathematics Discipline, St. Norbert College, DePere, WI, August 2006–present.

*Courses Scheduled and Recently Taught:*

PRE-CALCULUS MATHEMATICS	FALL 2006, SPRING 2007, SPRING 2008, FALL 2008
CALCULUS AND ANALYTIC GEOMETRY I	FALL 2006, FALL 2007
CALCULUS AND ANALYTIC GEOMETRY 2	FALL 2008, SPRING 2009
NUMERICAL ANALYSIS	SPRING 2007, SPRING 2009
SPECIAL TOPICS: MATHEMATICAL MODELING	FALL 2007, FALL 2009
DIFFERENTIAL EQUATIONS	SPRING 2008, SPRING 2009
COMPLEX VARIABLES	FALL 2008
INDEPENDENT STUDY (2): MATH ECOLOGY	FALL 2008

GRADUATE STUDENT MENTOR, Office of Undergraduate Research, University of North Carolina, Chapel Hill, NC, Summer 2005 and Spring 2006  
*Funded for mentoring undergraduate research fellows.*

GRADUATE TEACHING ASSOCIATE ORIENTATION LEADER, Center for Teaching and Learning, University of North Carolina, Chapel Hill, NC, Summer 2003 and 2004  
*Ran discussion sections for the University’s TA orientation seminar.*

SENIOR TEACHING FELLOW, Department of Mathematics, University of North Carolina, Chapel Hill, NC, August 2001–December 2003

*Supervised first time mathematics instructors and ran discussion sections for the Mathematics Department TA training class.*

## PROFESSIONAL SERVICE

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INSTITUTIONAL REPRESENTATIVE, Wisconsin Space Grant Consortium (WSGC), September 2008–present.

*Member of the advisory council for the “face of NASA” in the State of Wisconsin.*

SESSION CO-ORGANIZER, MathFest, San Jose, CA, August 2-5.

*Co-organized a two-hour session on “Teaching Time Savers” with panelists from Harvey Mudd College, Franklin and Marshall College, and Georgia College and State University through the Project NExT workshop.*

JOURNAL REFEREE, *The IIME Journal*, September 2006–December 2007.

*Reviewed articles submitted by undergraduates for publication.*

JUDGE, MAA Undergraduate Poster Session, Joint Mathematics Meeting: New Orleans, LA, January 2007; Portland, OR, January 2009

*Reviewed and ranked undergraduate poster entries in a national prized session.*

## COLLEGIAL SERVICE

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WWHEL BOOK DISCUSSION LEADER, Wisconsin Women in Higher Education Leadership, St. Norbert College, November 2008

*Volunteered to organize second meeting of the group which is open to all faculty and staff on campus.*

MENTOR MIXER PANEL, Office of Faculty Development, St. Norbert College, November 2008

*Offered comments and asked questions at an informal mentor training social.*

COLLEGE COMMUNITY RELATIONS BOARD, St. Norbert College, August 2008–May 2010

*Elected member of campus-wide committee which renders decisions in disciplinary matters referred to it.*

FACULTY ADVISORY COUNCIL, St. Norbert College, August 2008–May 2011

*Elected member of faculty committee which serves as a resource for the faculty.*

FACULTY DEVELOPMENT COMMITTEE, St. Norbert College, August 2007–May 2010

*Elected member of faculty committee which shapes, implements, monitors, and evaluates the Faculty Development Program.*

INFORMATION SERVICES COMMITTEE, St. Norbert College, January 2008–May 2009

*Elected member of campus-wide committee which functions as a users group and forum for input.*

STUDENT LIFE AWARDS COMMITTEE, St. Norbert College, Spring 2008

*Participated in campus-wide committee to select to recognize student contributions to SNC.*

NEW FACULTY ORIENTATION PANEL, St. Norbert College, August 2007  
*Discussed "Surviving the First Few Weeks & Advise for the First Year" with a panel of colleagues.*

MISSION STATEMENT FOCUS GROUP, St. Norbert College, Spring 2007  
*Volunteered conversation on reforming the SNC Mission Statement.*

FACULTY DEVELOPMENT BOOK DISCUSSION, St. Norbert College, February 2007  
*Lead discussion with faculty peers on W. Brad Johnson's "On Being a Mentor."*

## ACADEMIC ADVISING

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MATH CLUB ADVISOR, Mathematics Discipline, St. Norbert College, September 2006–present.  
*Supervise and organize activities with undergraduate members.*

ADVISOR TRAINING, St. Norbert College, November 2008  
*Attended professional development session regarding the new Academic Advisement Handbook.*

ACADEMIC SUPPORT SERVICES "CONSULTANT", St. Norbert College, Fall 2008  
*Worked with Carole Basak to enhance the training of mathematics tutors at SNC by organizing and leading a new and updated training session to be held in two parts, one per semester, annually.*

MICHELS HALL 3 SHIPS PROGRAM ADVISOR, St. Norbert College, Fall 2008 - Spring 2009  
*Faculty sponsor of a team of 8 undergraduate students, self-named "The Dream Team," with a service project through AmeriCorps VISTA and The Boys and Girls Club.*

FACULTY CALLING PROGRAM, St. Norbert College, March 2007 & February 2008  
*Contacted and recruited accepted high school students that indicated an interest in the Mathematics Discipline at SNC.*

ADVISOR TRAINING, St. Norbert College, September 2007  
*Attended webinar "Academic Advising: The Pivotal Point in Assisting Students to Attain Educational and Career Goals".*

FIRST YEAR EXPERIENCE (FYE) PANEL, St. Norbert College, September 2007  
*Answered questions regarding academic and intellectual development from first year students.*

## COMMUNITY SERVICE

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MATH VOLUNTEER, Wrightstown Elementary School, WI, Fall 2008-Spring 2008  
*Work with elementary students, one hour each week in small group settings, to pique their interest and strengthen their abilities in mathematics.*

ASSISTANT SOCCER COACH, Wrightstown, WI, Summer 2008  
*Assistant coach for boys K-2 soccer team.*

FIRST GRADE CATECHIST, Our Lady of Lourdes Parish, De Pere, WI, January 2008–present  
*Teach religious education classes by planning lessons from assigned chapters in a provided text.*

THE BIG EVENT FOR LITTLE KIDS, Green Bay, WI, April 2008 and April 2009  
*Organized and led a square wheeled bicycle exhibit with students from MATH 489 of Fall 2007 and the Math Club.*

## MEMBERSHIP IN PROFESSIONAL SOCIETIES

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American Mathematical Society (AMS)

Association for Women in Mathematics (AWM)

Mathematical Association of America (MAA)

Pi Mu Epsilon Honorary Society (PME)

Wisconsin Women in Higher Education Leadership (WWHEL)