

LINDA E. GREEN

greenl@email.unc.edu

EDUCATION

Ph.D., Mathematics, Princeton University, 1996

B.S./M.S., Mathematics, University of Chicago, 1990

PROFESSIONAL EXPERIENCE

2013 – present	Teaching Associate Professor	Chapel Hill, NC
2013 – 2018	Teaching Assistant Professor University of North Carolina at Chapel Hill	
	Teach math classes and assist the math department with curriculum design. Assign graduate students to teaching and assisting duties. Oversee placement testing. Hire and supervise undergraduate classroom assistants. Report on learning objectives in lower division courses.	
2010 – 2013	Assistant Professor Dominican University of California	San Rafael, CA
	Taught math and statistics classes and guided undergraduate research.	
2009 – 2010	Visiting Assistant Professor Mills College	Oakland, CA
	Designed and taught math and statistics classes for majors and non-majors, including calculus, linear algebra, and probability and statistics.	
2006 – 2009	Scientist Archimedes, Inc.	San Francisco, CA
	Built mathematical model of breast cancer, including natural history and mammogram screening. Designed computer simulations of clinical trials and analyzed cost-effectiveness of alternative health care strategies.	
2000 – 2002	Senior Analyst / Programmer Wake Forest University School of Medicine	Wake Forest, NC
	Wrote C++ software to simulate genetic data and to perform statistical analyses.	
1998 – 1999	Mathematician Applied Mathematics, Inc.	Raleigh, NC
	Performed statistical analysis of data, designed mathematical models using Matlab.	
1997 – 1998	Teacher North Carolina School of Science and Mathematics	Durham, NC
	Taught precalculus classes. Designed and taught Java seminar.	
1996 – 1997	Postdoctoral Fellow Mathematical Sciences Research Institute	Berkeley, CA
	Conducted research and wrote software in the field of topology.	
1995 – 1996	Lecturer Princeton University	Princeton, NJ
	Assisted with multivariable calculus and co-taught “Chance”, an introductory statistics class based on current news.	
Summers 1985–1987	Teacher and Teaching Assistant Talent Identification Program, Duke University	Durham, NC
	Taught mathematics to gifted middle school students.	

HONORS

2018	Goodman-Petersen Award for Excellence in Teaching, given by the University of North Carolina Department of Mathematics
1990 - 1995	AT&T Bell Labs Graduate Fellowship for Women
1990 - 1993	Office of Naval Research Graduate Research Fellowship
1990	Association for Women in Mathematics National Prize for Best Undergraduate Woman in Mathematics
1990	University of Chicago Paul Cohen Award for Best Undergraduate Math Major
1990	Phi Beta Kappa and Sigma Xi

BIBLIOGRAPHY

*Scott C, **Green L**, Etheridge D. A comparison between flipped and lecture-based instruction in the calculus classroom. *Journal of Applied Research in Higher Education*, 2016; 8:2:252-64. doi: 10.1108/JARHE-04-2015-0024

*Liu S, Louie MC, Rajagopalan V, Zhou G, Ponce E, Nguyen T, **Green L**. Synthesis and evaluation of the diarylthiourea analogs as novel anti-cancer agents. *Bioorg Med Chem Lett*. 2015;25(6):1301-5. doi: 10.1016/j.bmcl.2015.01.042.

***Green LE**, Dinh TA, Hinds DA, Walser BL, Allman R. Economic evaluation of using a genetic test to direct breast cancer chemoprevention in white women with a previous breast biopsy. *Appl Health Econ Health Policy*. 2014 Apr;12(2):203-17. doi: 10.1007/s40258-014-0089-6.

*Folse HJ, **Green LE**, Kress A, Allman R, Dinh TA. Cost-effectiveness of a genetic test for breast cancer risk. *Cancer Prev Res*. 2013 Dec;6(12):1328-36. doi: 10.1158/1940-6207.CAPR-13-0056.

***Green LE**, Dinh TA, Smith RA. "An estrogen model: the relationship between body mass index, menopausal status, estrogen replacement therapy, and breast cancer risk," *Computational and Mathematical Methods in Medicine*, 2012.

*Noah-Vanhoucke J, **Green LE**, Dinh TA, Alperin P, Smith RA. "Cost-Effectiveness of Chemoprevention of Breast Cancer Using Tamoxifen in a Post-Menopausal U.S. Population" *Cancer*, 2011; 117(15) 3323-3331.

8Bensen JT, Langefeld CD, Hawkins GA, **Green LE**, et al. "Nucleotide variation, haplotype structure, and association with end-stage renal disease of the human interleukin-1 gene cluster" *Genomics* 2003; 82(2): 194-217.

*Graham RR, Ortmann WA, Langefeld CD, Jawaheer D, Selby SA, et al. "Visualizing human leukocyte antigen class II risk haplotypes in human systemic lupus erythematosus" *Am J Hum Genet* 2002; 71:543-53.

***Green LE**. "Incompressible Surfaces in Handlebodies" *Topology* 2000; 39: 681-710.

RECENT TEACHING RECORD

Spring 2020

Mathematics of Voting (Math 89) 21 students
 Topics in Modern Mathematics (Math 118) 91 students

Fall 2019

Mathematics of Voting (Math 89) 19 students
 Multivariable Calculus (Math 233) 132 students

Spring 2019

Precalculus (Math 130) 76 students

Fall 2018

Algebra (Math 110) 98 students
 Calculus 2 (Math 232) 184 students
 Multivariable Calculus (Math 233) 147 students
 Multivariable Calculus (Math 233) 59 students

Spring 2018

Symmetry and Tiling (Math 53) 20 students
 Algebra (Math 110) 35 students
 Calculus 1 (Math 231) 150 students

Fall 2017

Algebra (Math 110) 73 students
 Multivariable Calculus (Math 233) 164 students

Spring 2017

Algebra (Math 110) 67 students
 Calculus 2 (Math 232) 131 students
 Topology (Math 550) 33 students

Fall 2016

Calculus 1 (Math 231) 142 students
 Honors Multivariable Calculus (Math 233H) 19 students

Spring 2016

Calculus 1 (Math 231) 117 students
 Calculus 2 (Math 232) 148 students

Fall 2015

Symmetry and Tiling (Math 53) 22 students
 Calculus 2 (Math 232) 126 students
 Honors Multivariable Calculus (Math 233H) 24 students

Fall 2015 / Spring 2016 Supervised Undergraduate Research Project on Polyhedra Composed of Squares and Triangles with 4-Valent Vertices

GRANTS

- 6/2019 – 8/2020 **UNC System Math Pathways Grant**
 Co-PI, 14.03% effort
 \$82,800 grant, shared with three other faculty members, to design co-requisite classes for Algebra and Calculus 1 and a new applications-based quantitative reasoning course.
- 5/2014 -12/2014 **Center for Faculty Excellence 100+ Course Redesign Grant**
University of North Carolina at Chapel Hill
 Co-PI, 0% effort
 Received \$5000 internal grant, shared by three other faculty members, to redesign Calculus 1 to incorporate active learning strategies including in-class problem solving.
- 9/2011 – 6/2013 **Dolciani Math Enrichment Grant (PI)**
 PI, 0% effort

Received \$6000 per year for two years in support of the Marin Math Circle.

9/2010 – 6/2012 **Mathematical Sciences Research Institute Math Circle Start-up Grant (PI)**
 PI, 0% effort
 Received \$2000 per year for two years in support of the Marin Math Circle

PROFESSIONAL SERVICE

2018 - present **Director**
Durham-Orange County MathCounts Chapter Competition Chapel Hill, NC
 Organize math contest for about 150 local middle school students.

2016 – present **Director**
Julia Robinson Math Festival held at UNC Chapel Hill, NC
 Organize annual math festival for about 200 students in grades K – 12.

2016 – present **Director** Chapel Hill, NC
Chapel Hill Math Circle
 Founding co-director of a math circle for 1st – 12th grade students. Organize weekly meetings for about 100 students, teach weekly classes for 4th and 5th graders and 6th – 8th graders, and supervise 20 volunteers.

2011 – 2013 **Director**
Bay Area Mathematical Olympiad (BAMO) Berkeley, CA
 Organized annual proof-style contest taken by about 450 students around the San Francisco Bay Area. Oversaw registration, contest creation, and awards ceremony.

2009 – 2013 **Director** San Rafael, CA
Marin Math Circle
 Founding director of a math circle for 3rd – 12th grade students. Organized weekly meetings for about 80 students, invited speakers, and led sessions and contests.