

Gail P. Greene, Ph.D.

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Career Objectives

- The development of students in the disciplines of mathematics and statistics to prepare them for related careers in industry, government or education and/or graduate studies
- Develop a statistical program at the undergraduate level that includes courses on descriptive and inferential statistics, as well as research principles; extend the program to internship level in the business or medical communities
- Publish a booklet on assisting Ph.D. candidates in the pursuit of their higher education degrees; this goal stems from assistance being given graduate students over past ten years

Education

1993	Ph.D.	University of Cincinnati, Cincinnati, Ohio; Biostatistics & Epidemiology
1979	M.S.	University of Cincinnati, Cincinnati, Ohio; Biostatistics, Air Pollution concentration
1972	M.A.T.	University of Cincinnati, Cincinnati, Ohio; Mathematics Education
1962	A.B.	Asbury College, Wilmore, Kentucky; Mathematics, Minors in Psychology and French

Professional Experience

2000-2010 **Professor of Mathematics/Coordinator of Department of Mathematics/Director of Assessment /Supervision of Secondary Mathematics Education Students**
Indiana Wesleyan University, Department of Mathematics,
Marion, IN 46953

Career Description: Responsibilities concerning coordination of The Department of Mathematics have been the development and refinement of curriculum (including the statistics minor), revamping the process for mathematics competency exams, improvement of the design and content of mathematics courses (developing a survey sampling course for non-mathematics majors, introducing an Orientation to Mathematics course, and upgrading the requirements for Math Senior Seminar); also bringing on board state-of-the art mathematics software. The number of mathematics and math education majors has more than doubled and several students are obtaining a mathematics minor. After five and one-half years as Coordinator of the Department of Mathematics, duties now are full-time teaching and supervision of student teachers.

Working cooperatively with the Education Division has included the supervision of both student teachers and practicum students, participating in assessment activities for the Education Division, assisting in portfolio reviews for both elementary and secondary students and serving on the Teacher Education Committee.

For the first three years at Indiana Wesleyan University, duties and responsibilities encompassed assessment activities for The College of Arts and Science. These activities included chairing the Assessment Council (e.g., implementation of a campus-wide survey policy), developing an assessment protocol and training of both divisions and individuals on how to do assessment.

1994-2000 **Associate Professor of Mathematics/Director of Institutional Research/Supervision of Secondary Mathematics Education Students**
Montreat College, Montreat, North Carolina 28757

Career Description: This position involved the development of a viable liberal arts mathematics program at the college for mathematics and math education majors. In addition to teaching and coordinating the mathematics department, other responsibilities were the development of a statistics module for

adult education, recruitment activities, and advising students.

The roles in Institutional Research resulted in a release-time position starting in 1998 for facilitating in-house activities for accreditation review. It also included the implementation of a training program for institutional effectiveness, and the collection, organization and analysis of longitudinal data for an institutional profile.

Tenured: 1998

1990-1994

Assistant Professor of Mathematics/Supervisor of Secondary Mathematics Students

The King's College
Briarcliff Manor, New York

Career Description: Taught virtually all undergraduate mathematics courses to mathematics and non-mathematics majors with special emphasis in calculus and statistics. Four areas of focus and enjoyment were: 1) developing an motivating young mathematicians throughout their undergraduate career, 2) teaching of mathematical methods to both elementary and secondary education majors, 3) supervising student teachers in secondary mathematics education, and 4) providing statistical support for other departments within the college. Additional duties were advising incoming freshmen and mathematics majors, and serving on the General Education Board for two years.

1985-1989

Researcher, Project Coordinator

Greater Cincinnati Occupational Health Center
Cincinnati, Ohio

Career Description: Supervised work for the entire nonmelanoma skin cancer project, including the development of protocols, identification and recruitment of cohort members, abstraction of union records, and establishment of methods for tracking participants. Also assisted in hiring and training of interviewers, administration of pilot and survey questionnaires, and the development of an industrial hygiene exposure sampling strategy. Worked closely with programmer in coding and editing of data, statistical analyses and model building from both the biostatistical and epidemiological perspectives. Administrative details included being a liaison with bureaus and agencies, development of standard operating procedures, randomization for the scheduling of dermatological examinations and supervising the flow of clerical work.

1977-1983

Plant Industrial Hygienist/Radiation Safety

Monsanto Company, Addyston, Ohio

Career Description: Development and implementation of safety and preventive health programs; supervision of Respirator Facility for the cleaning, distributing and control of appropriate respiratory equipment; established baseline data program for facility chemicals which were received, stored, and processed within the plant. Also had a major role in the coordination of plant sampling strategies, consulting resource person for statistics, and an advisor to management and labor for regulatory standard-setting. Other responsibilities included training and educating workers in current industrial hygiene concepts and practices.

1974-1977

Clinical Data Evaluator**Merrell National Laboratories, Cincinnati, Ohio**

Career Description: Served as a statistical consultant for the clinical section of the company. This position involved organizing, summarizing, and analyzing clinical data for pharmacological studies testing drugs in preparation of FDA approval. Techniques used were predominantly graphical and descriptive statistics; analyses were performed by calculator, the Wang, and IBM computer-based programs. This position required interfacing with professionals in pharmacology, biostatistics and medicine.

1962-1968

Secondary Teacher of Mathematics, except 1966-67**Cincinnati Board of Education, Cincinnati, Ohio**

Career Description: College preparatory courses were taught from grade 7 through grade 12 and included subjects of Algebra I, Algebra II, Plane and Analytic Geometry, Spherical and Solid Geometry, Trigonometry, and Probability and Statistics. Other supervisory duties and responsibilities included being an advisor to the junior and senior classes (trips to Washington, D.C.), supervising very large study halls (1400 students), and sponsoring the rocket club.

Adjunct Experience

- 2004-2005
1985-1989 **Instructor in Mathematics, Science & Industrial Hygiene**
Cincinnati State, Cincinnati Ohio
Courses Taught: Algebra, Trigonometry, Basic (Organic) Chemistry, Mathematics for Business Students, Probability and Statistics, and Calculus.
- 1984-1985
1974-1975 **Instructor in Mathematics and Biostatistics**
University of Cincinnati, Cincinnati, Ohio
Courses Taught: Calculus, Probability and Statistics, Experimental Design (graduate course), College Algebra, and Math for Elementary Teachers
- 1977-1978
1972-1975 **Instructor in Mathematics**
Northern Kentucky University, Highland Heights, KY
Courses Taught: Algebra, Finite Mathematics, Pre-Calculus, and Statistics for the Health Sciences

Research/Publications/Presentations

- Greene GP (2007): Speaker at Indiana Section of the Mathematical Association of America (MAA). Innovative Ways to Teach History & Foundations of Mathematics.
- Greene GP (2007): Speaker at Association of Christians in the Mathematical Sciences (ACMS). Innovative Ways to Teach History & Foundations of Math - Dispelling Myths about Mathematics Majors.
- Royer MG, Greene GP (2004): A Seminar for Starting Math Majors on the Right Foot. Presentation at Joint Mathematics Meeting (MAA-AMS), Phoenix, AZ.
- Greene GP (2004): The Blanking Moment. Published in College Faith 2. Andrews University Press.
- Greene GP (2004): Review of calculus text by Rogawski. W. H. Freeman and Company
- Greene GP (2004): Grant County Math-Science Consortium. Sponsored by Marion-Grant County Chamber of Commerce. Sole presenter for three-day mathematics workshop for Grant County teachers K-12.
- Greene GP (2004): Speaker at Guidance Counselors' Breakfast. Sponsored by Admissions Department. Indiana Wesleyan University.

Greene GP (2002): Review of text, *Calculus* by Robert Smith and Roland Minton.
McGraw-Hill

Greene GP (1999): Proposal for a retrospective study on apathy among students of mathematics

Greene GP (1998): Speaker on careers involving statistics for Mu Alpha Theta induction ceremony.

Greene, GP (1993): A Historical Prospective Study of Outdoor Workers to Determine the Relationship Between Nonmelanoma Skin Cancer and Environmental Exposures.

Greene GP, Fyler D. (1989): An Epidemiological Study of Utility Workers Exposed to UV and Creosote. Funded by the Ohio Industrial Commission through The Greater Cincinnati Occupational Health Center.

Greene GP (1984): Technical Course Coordinator and Instructor for 3-day seminar on Industrial Hygiene Sampling Strategies and Statistics, National Institute of Occupational Safety & Health (NIOSH) Course #553.

Greene GP (1979): Selected Analyses of Asthma and Air Pollution Data in the Cincinnati Area

Dine MS, Gartside PS, Glueck CJ, Rheines L, Greene GP & Khoury P (1979): Where Do the Heaviest Children Come From? A Prospective Study of White Children From Birth to 5 Years of Age. *Pediatrics* 63:1-7.

Greene GP, Osborne FL (1973): Selected Techniques of Statistical Analysis of Water Samples From Area Swimming Pools, an unpublished report with the City of Cincinnati's Chemist.

Professional Organizations

2000-10	Mathematical Association of America (MAA) Association of Christians in the Mathematical Sciences (ACMS) COMAP
2008-2010	National Association for Gifted Children (NAGC)
1994-2010	National Council for Teachers of Mathematics (NCTM)
1990-99	MAA-Department Liaison Association for Christians in the Mathematical Sciences (ACMS) North Carolina Council of Teachers of Mathematic (NCCTM) AAIM-Multimedia in Education & Industry North Carolina Association for Institutional Research Society for Epidemiologic Research
1980-89	American Industrial Hygiene Association American Society of Safety Engineers
1970-79	American Statistical Association

Honors/Awards

2008	Sabbatical for research on the Mathematical Gifted
2005	Grant for Faculty Spiritual Odyssey in Israel
2004	Certificate of Appreciation: Association for Women in Mathematics - Biographies of Contemporary Women in Mathematics
2003	TEV Mini-Grant for Divisional Introductory Course
2003-04	Who's Who Among America's Teachers
1985	National Institute of Environmental Science Grant
1977	University of Cincinnati Graduate Scholarship
1971-72	University of Cincinnati Graduate Scholarship
1966	National Science Foundation Stipend Award

Community Service

- *Volunteer at Crisis Pregnancy Center - (2006-2007):* Served as counselor for women desiring assistance during their pregnancy; this service included a training program for both parents
- *VoPro Expo (Vocational/Professional Exposition) - Marion High School (2003-2005):* participation in the high school career day program sponsored by Marion-Grant County Chamber of Commerce, The Center for Life Calling and Leadership, and Grant County Schools
- *Sunday School Teacher (2000-2005):* have intermittently taught three different adult Sunday school classes over the past five years on a variety of practical topics from the scriptural viewpoint; past church pianist and soloist
- *Consultant in Statistics (2003-2009):* assisted IWU faculty and staff in course work, statistical analyses and readiness for dissertation; tutored adult student in statistics; *Consultant in Biostatistics (1980s):* Cincinnati hospital; postdoctoral student
- *Consultant in Survey Design & Development (1997-2003):* assisted numerous colleagues and friends in developing survey questionnaires and performing statistical analyses; analyzed survey data for Asheville Christian Academy
- *Tutoring Students in Mathematics (1990-2005):* non-mathematics majors, friends, children of professors; long-term sessions at Presbyterian Home for Children

Committee & Facilitator Tracking Record

Gail P. Greene, Ph.D.

1994-Present

2000-2010 Indiana Wesleyan University

- ▶ Coordinator of The Department of Mathematics
- ▶ Director of Assessment/Assessment Committee
- ▶ Chair of Assessment Council/Assessment Committee
- ▶ Teacher Education Committee - Indiana Wesleyan University
- ▶ Academic Affairs Council (non-voting member)
- ▶ Rank Committee

1998-1999

- ▶ Department Coordinator for Mathematics
- ▶ Teacher Education Committee - Montreat College
- ▶ Retention Council
- ▶ Director of Institutional Research
- ▶ Safety Committee

1997-1998

- ▶ Department Coordinator for Mathematics
- ▶ Teacher Education Committee
- ▶ Spiritual Life Committee
- ▶ Purpose & Institutional Effectiveness Committee for Self-Study
- ▶ Ph.D. Committee for pastor
- ▶ Director of Institutional Research (Summer)

1996-1997

- ▶ Department Coordinator for Mathematics
- ▶ Faculty Committee on Rank
- ▶ Teacher Education Committee
- ▶ Education Committee at Asheville Christian Academy
- ▶ Room Mother for daughter at Asheville Christian Academy
- ▶ Director of Institutional Research (Summer)

1995-1996

- ▶ Department Coordinator for Mathematics
- ▶ Faculty Committee on Rank
- ▶ Teacher Education Committee
- ▶ Faculty Representative to Personnel Committee for Board of Trustees
- ▶ Graduate Council
- ▶ Math Science College Fair
- ▶ Education Committee at Asheville Christian Academy
- ▶ Director of Institutional Research (Summer)

1994-1995

- ▶ Faculty Committee on Rank
- ▶ Teacher Education Committee
- ▶ Advisor for Alpha Chi Honor Society
- ▶ Search Committee for Religion Department

College Courses Taught By Topic and Level
Gail P. Greene

Undergraduate

- Applied Calculus
- Applied Statistics
- College Algebra
- Differential Equations I
- Differential Equations II
- Discrete Mathematics
- Calculus I
- Calculus II
- Calculus III
- Finite Mathematics
- History and Foundations of Mathematics
- Integrative Seminar for Mathematics Majors
- Mathematical Modeling
- Mathematics for Elementary Teachers - Math Education
- Mathematics Methods - Secondary Math Education
- Mathematical Statistics I
- Mathematical Statistics II
- Nature of Mathematics
- Pre-Calculus
- Philosophy of Faith & Learning Seminar
- Sample Surveying
- Senior Math Seminar
- Supervised Student Teaching - Secondary Math Education

Technical College

- Algebra & Trigonometry
- Calculus I, II
- Mathematics for Health Sciences
- Organic Chemistry (Basic)
- Safety (Industrial Hygiene)
- Statistics

Graduate Level

- Experimental Design
- Discriminatory Analysis (lesson)

Government Seminar (three days)

- Industrial Hygiene Sampling Strategies and Statistics - National Institute of Occupational Safety and Health (NIOSH) Course #553

Student/Faculty/Staff Comments: *The following selections from notes and letters that have been written to me provide some of the feedback in the area of teaching. These comments were given unsolicited and give insight into what matters to me most; teaching of mathematics that is integrated with philosophy, critical thinking and faith. Copies are available; however, some parts of the notes are personal.*

2008-2010

- I'm writing to thank you again for your perseverance, strength, and genuine love and concern for your students. I was greatly affected by it—your patience and guidance influenced me to be patient throughout the semester (even with Calculus!)
- Thank you so much for your help last week! I realize it was an inconvenience...but you were a great help and as always a wonderful encouragement [Staff member working on Ph.D.]
- I wanted you to know how impressed I was with (male student)...when asked to discuss a teacher who helped him to think critically, he talked about you. You challenged him to take a complex topic and explain how he would present these ideas to a kindergarten child. This ability is so important. Thank you for producing great math teachers. [Education professor]
- Thank you for all the extra things you do for your students. Even though I haven't had you for very long, I can already tell that you care very deeply about each of your students.
- You led me, coached me, encouraged me, and prayed with me when times were the most challenging. It has been your support and guidance that has led me on this path of victory, and for this, I thank you. You have modeled what I pray to become in my years as a classroom teacher. [Adult online student]
- Regarding History & Foundations of Mathematics course: I was challenged to work hard...we complained, but Dr. Greene knew that what was best wasn't going to be easy. So she kept her expectations high and let up only when we were getting discouraged. And maybe most importantly, she balanced her high expectations and personal challenges with sincere encouragement. I hope to do this as well. [Secondary Mathematics Education student]
- I'm truly grateful that I had such a wonderful adviser and professor. I honestly had no idea that it was possible that I could have such a wonderful mentor like you at college that understood me so well. I will never forget the meals we shared together, all of the wisdom and encouragement you gave me, and the fun times in Modern Geometry!

2005-2007

- Thank you so much for your help this week. You have no idea how much your words of encouragement meant to me....(later) Words cannot express my gratitude for your help with my statistics. You truly are a generous and godly woman. (Staff)

Faculty/Staff/Student Comments

- I just wanted to thank you for all you have done for me this semester. Your encouragement has meant so much to me.....
- I truly appreciate all your advice and the time you've invested in me.
- The pressure you placed during classes helped me grow in areas that needed tremendous growth
- I appreciate your help and encouragement throughout the whole last semester. Calculus was difficult, but you helped me to see that it was not impossible! I have a different mind set about school, discipline, and life in general as a result of our talks.
- Thank you so much for taking your time to help me with my research for Cancer...I would have been totally lost without you.
- Thanks for turning me into a MATHLETE!
- This (Sample Surveying) is my favorite class to come to, and I hated math classes in the past! Good job Dr. Greene!
- You are a GREAT teacher!!! [From academic dean after observation]
- I would like to thank Dr. Gail Greene for acting as supervisor and preliminary editor (assisting student in writing a math trade book)

2004

- I have enjoyed your classes this semester.....
- Thank you so much for your friendliness to me and wonderful help for my senior research (Science Major); ...your help in the statistical analysis of my research was invaluable. I really appreciate you!
- I just wanted to drop you a note and let you know how much I have enjoyed the devotions during math class. The attitudes of unbelief devotions really hit home with me.....Thanks for the encouragement
- Thank you so much for your time and willingness to invest in our lives--you are very special to us.....

2003

- I truly appreciate all of the time you have taken out of your busy schedule to help me. Thanks for all of your help and encouragement
- Thank you for allowing me and your classes to discuss things in class and out of class until we understand. Especially when the answers to our questions are so very simple and yet the answers still elude us, and must just jump out and scream to you. Thanks for your patience with us. (Computer Science Major)
- I just wanted to send you a note to let you know how much I have appreciated everything you have done for me. Thank you for caring about me enough to take an interest in my personal life. Thank you for all of your prayers and words of encouragement. You have been an inspiration to me spiritually, and I praise God for that. Thank you for motivating me to press on when the hard times came. I am not sure if I would have made it through this semester without your love, encouragement, and prayers. Thank you for all you have done. May God Bless You!
- Thank you for all of the support and pep talks you gave me!

Faculty/Staff/Student Comments

- I just wanted to thank you for being so flexible and understanding of me last semester. I don't think that I could have survived without your help. I really do appreciate it. Thank you and God Bless.
- I enjoyed being in your class this semester. I appreciated the interactive classroom we had.....

2002

- Thanks for pushing me to be confident in math and in life
- Have I ever said "thanks" for everything? If not, thank you and I appreciate you.
-I was among 4 candidates interviewed and I got the job on the spot.....Thanks for all of your help.....
- I just wanted to say thanks for taking time out of your busy schedule to talk with me and have lunch last week. It meant more than I can express to you with just a simple card.....
-I would like to say "Thank You" for your support and encouragement last year. You are a blessing to me and to the numerous students whose lives you touch every year. You leave on us a mark which we carry with us throughout our lives.

1995-1999

- It was a pleasure being in your class this semester
- My statistics class went very well. It was the first math class I took at NYU after leaving King's--and really missed your style
- Foreign Student: I had a great time, specially with you as my teacher and my mother. Thank you so much.....I won't forget you and my classmates.....
- Thank you so much for helping me stay positive. You are the best!
- Hope you had a super start in Montreat!you were much in my thoughts, esteemed colleague! (Chemistry Faculty)
-just a small token to let you know I appreciate everything you have done for me.....
-helped me more than any teacher I've ever had in high school or college.
-You have been one of the BEST math teachers I have had. You really took your time in making sure I understood things,.....
- I wanted to thank you again for all of your help this semester. Despite my very NEGATIVE attitude towards stats, you made it a very enjoyable class...
- Again, let me say that I am glad that our paths crossed as teacher and student. I admire not only your teaching ability and experience but also your strength and fortitude as a teacher. I really don't know if I could handle all the whining and complaining as well as you do! [Adult student in statistics]