

Debra Hydorn

Professor of Mathematics at University of Mary Washington

Fredericksburg, VA, US

Debra Hydorn is a professor at the University of Mary Washington with interests in math and statistics education and mathematical art.

Biography

Debra L. Hydorn, Professor of Mathematics, earned a Ph.D. (1993) in statistics from the University of Michigan, after receiving an M.S. (1988) in mathematics from the University of Texas at San Antonio. She holds a B.S. (1980) in mathematics and zoology from the University of Michigan. Dr. Hydorn has given several presentations at professional conferences, most recently "Combining On-and Off-Campus Service-Learning in a Statistics Methods Course" at the eighth International Conference on Teaching Statistics in Ljubljana, Slovenia and the paper "Group explorations and art projects in a mathematics of art course for first-year students" at the 2010 Joint Mathematics Meetings in San Francisco. In addition, she was a co-presenter for a talk on using blogs in freshman seminar courses at the 2010 International Conference on Technology in Collegiate Mathematics. Her publications include a chapter on service learning in statistics courses for the 2005 Mathematical Association of America publication "Mathematics in Service to the Community." She has received several grants from the University for a variety of projects including curriculum development and computer usage in the undergraduate curriculum. Most recently, Dr. Hydorn was awarded a 2011-2012 Mary Washington Faculty Development Grant for the project "Correcting for Error in GPS Position to Improve the Linear Association Between Satellite and Field-Collected Measurements of Elevation." Dr. Hydorn is a member of the American Statistical Association, the Mathematics Association of America, the Council on Undergraduate Research and the Virginia Academy of Science.

Industry Expertise

Education/Learning, Research, Computer Software

Areas of Expertise

Statistics, Mathematics Education, Mathematics and Art, Global Positioning Systems (Gps), Geographic Information Systems (GIS), Service Learning, Online Education, Research Administration, Mentoring

Affiliations

American Statistical Association, Mathematics Association of America, Council on Undergraduate Research , Virginia Academy of Science

Event Appearances

Tennis Balls Four Ways
Joint Statistical Meetings

Fostering Creativity with Geometer's Sketchpad
Joint Mathematics Meetings

The Research Process: A Statistics Course for Biology Majors
US Conference on Teaching Statistics

Combining On- and Off-Campus Service-Learning in a Statistics Methods Course
International Conference on Teaching Statistics

Education

University of Michigan
Ph.D. Statistics

University of Texas
M.S. Mathematics

University of Michigan
B.S. Mathematics and Zoology

Accomplishments

Hydorn Elected Councilor for Council on Undergraduate Research

Debra Hydorn was recently elected to a three-year term as Councilor for the Mathematics & Computer Science division of the Council on Undergraduate Research. Councilors are the governing body of CUR and set policy and develop programs for the organization.

Science, Technology, Engineering, and Mathematics Talent Expansion Program (STEP) Grant

Awarded by the National Science Foundation for projects related to "Improving Undergraduate STEM Education."

UMW J. Christopher Bill Outstanding Service Award

Awarded by the University of Mary Washington.

Regional Undergraduate Research Grant

Awarded by the Mathematical Association of America.

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