

MELINDA HUNGERFORD HARDER

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EDUCATION

Ph.D. Statistics, University of Rochester, Rochester, NY, 1986

Research Area: Survival Analysis

Thesis: "Effects of Censoring on Robustness", Advisor: Jon A. Wellner

Awards: Rush Rees Fellowship, 1984

M.S. Statistics, University of Chicago, Chicago, IL, 1980

B.A. Mathematics, Dartmouth College, Hanover, NH, 1976

TEACHING EXPERIENCE

Lecturer in Mathematics, Bates College, Lewiston, ME, 1990-present

Courses Developed and Taught:

Working with Data (MATH 101)

First-Year Seminar, *The Bell Curve* (FYS 220)

Mathematical Models in Biology (with Professor Rhodes) (BIO 155/ MATH 155)

Courses Taught:

Probability (MATH 314)

Statistics (MATH 315)

Calculus I (MATH 105)

Calculus II (MATH 106)

Advised/Co-advised nine senior theses

Instructor in Mathematics, University of Maine at Augusta, L-A Branch, ME, 1986

Instructor in Statistics, University of Rochester, Rochester, NY, 1983

Teaching Assistant, University of Rochester, Rochester, NY, 1981-1983

Teaching Assistant, University of Chicago, Chicago, IL, 1979

CONSULTING AND RESEARCH EXPERIENCE

Visiting Assistant Professor of Community and Family Medicine, Dartmouth Medical School, Hanover, NH, 2001-present

Statistical Consultant, Auburn, ME, 1992-present

As a self-employed consultant, provide statistical expertise for lawyers and physicians.

Statistical Specialist, Information Services, Bates College, Lewiston, ME, 1987-1993

Assistant Statistician in Biostatistics, University of Rochester, Rochester, NY, 1984-1985

Research Assistant in Biostatistics, University of Rochester, Rochester, NY, 1982

Assistant Statistician in a Clinical Drug Trial, Health Designs Inc. and Genesee Computer Center, Inc., Rochester, NY, 1980-1981

Statistician in a Population Genetics Research Project on the Hutterites, Northwestern Memorial Hospital, Chicago, IL, 1979

Genetic Lab Technician, Children's Memorial Hospital, Chicago, IL, 1977-1979

Biochemical Lab Technician, Dartmouth College, Hanover, NH, 1976

MEMBERSHIP, PROFESSIONAL SOCIETY American Statistical Association

PRESENTATIONS

1. "Predicting Survival Based upon Attained Age in Patients with Cystic Fibrosis" at *Colby College*, Waterville, Maine, October 31, 2005
2. "Infuse Simulations into Probability and Mathematical Statistics" at the *United States Conference on Teaching Statistics*, Columbus, Ohio, May 19-21, 2005
3. "Predicting Survival in Cystic Fibrosis Patients Based upon Attained Age" at the *American Thoracic Society International Conference*, Orlando, Florida, May 21-26, 2004
4. "Predicting Survival Based upon Attained Age in Patients with Cystic Fibrosis" at the *International Conference on Reliability and Survival Analysis*, Columbia, South Carolina, May 21-24, 2003
5. "Predicting Survival Based upon Attained Age in Patients with Cystic Fibrosis" at the *North American Cystic Fibrosis Conference*, New Orleans, October 3-6, 2002
6. "Mathematical Models and Statistics in Biology, a Non-Calculus Based Course", *Joint Statistical Meetings*, Chicago, August 4-8, 1996

PUBLISHED ABSTRACTS

1. "Predicting Survival in Cystic Fibrosis Patients Based upon Attained Age". M. Harder, H.B. Quinton, J.B. Zuckerman, T. Lever, M.J. Detzer, J. Maddock, G.T. O'Connor. *American Journal of Respiratory and Critical Care Medicine*, Supplement Vol. 169, No. 7, p. A388, 2004
2. "Predicting Survival Based upon Attained Age in Patients with Cystic Fibrosis". M. Harder, H.B. Quinton, T. Lever, J. Maddock, M. Detzer, J. Zuckerman, G.T. O'Connor. *Pediatric Pulmonology*, Supplement 24, p.325, 2002

PUBLICATIONS

1. "The Relationship Between Nonfasting and Fasting Lipid Measurements in Patients With or Without Type 2 Diabetes Mellitus Receiving Treatment with 3-Hydroxy-3-Methylglutaryl-Coenzyme A Reductase Inhibitors." R. Weiss, M. Harder, and J. Rowe. *Clinical Therapeutics*, Vol. 25, No. 5, pp. 1490-1497, 2003
2. "Mathematical Models and Statistics in Biology, a Non-Calculus Based Course." M.H. Harder. *1996 Proceedings of the Section on Statistical Education, American Statistical Association*, pp. 164-167, 1997
3. "Minimum Distance Estimators of Scale with Censored Data." M.H. Harder. *Journal of the American Statistical Association*, Vol. 87, pp. 832-843, 1992
4. "Effects of Censoring on the Validity of Confidence Intervals." M.H. Harder. *Journal of the American Statistical Association*, Vol. 85, pp. 90-96, 1990

5. "The Interrelations between High and Low Molecular Weight Forms of Normal and Mutant (Krabbe Disease) Galactocerebrosidase." Y. Ben-Yoseph, M. Hungerford, and H.L. Nadler. *Biochemical Journal*, 1980
6. "Galactosylceramide β -Galactosidase in Krabbe Disease; Partial Purification and Characterization of the Mutant Enzyme." Y. Ben-Yoseph, M. Hungerford, and H.L. Nadler. *Archives of Biochemistry and Biophysics*, Vol. 196, pp. 93-101, 1979
7. "The Nature of the Mutation in Krabbe Disease." Y. Ben-Yoseph, M. Hungerford, and H.L. Nadler. *American Journal of Human Genetics*, Vol. 30, pp. 644-652, 1978