

MARJORIE A. ROSENBERG

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CURRENT APPOINTMENT:

- Wisconsin School of Business, Department of Risk and Insurance, hired in September 1994.
- Joint appointment in School of Medicine and Public Health, Department of Biostatistics and Medical Informatics, 25% appointment, effective June 1996 to August 2014.
- School of Medicine and Public Health, Department of Biostatistics and Medical Informatics, affiliate appointment effective September 2014.
- School of Medicine and Public Health, Department of Population Health Sciences, appointment on Program Faculty, effective June 1997.
- Promotion to Associate Professor in Actuarial Science, Risk Management and Insurance, and Biostatistics and Medical Informatics in July 2001.
- Promotion to Professor in Actuarial Science, Risk Management and Insurance, and Biostatistics and Medical Informatics in July 2008.

EDUCATION:

- Ph.D. in Statistics and Management Science, University of Michigan, School of Business Admin., May 1994.
- A.M. in Statistics, University of Michigan, December 1989.
- M.S. in Math, University of Michigan, May 1977.
- B.S. in Math, University of Michigan, May 1976. Phi Beta Kappa honors.

AWARDS AND HONORS:

- 2022 Wisconsin School of Business Excellence in Implementing DEI Through the Wisconsin Idea Award
- 2021 Outstanding Volunteer Award from the Society of Actuaries for cultivating ideas in health research and participating on Project Oversight Groups for the Health Care Cost Trends Strategic Initiative.
- 2018 Essays on the Risks Posed by Predictive Models: One of the best papers for the paper entitled *Actuarial Fairness in the Era of Machine Learning*. Organized by the Predictive Analytics and Futurism (PAF) and Technology (Tech) sections as well as the Joint Risk Management Section (JRMS) of the Society of Actuaries (SOA), the Casualty Actuarial Society (CAS) and the Canadian Institute of Actuaries (CIA). <https://www.soa.org/sections/risks-embedded-pred-models-contest/>
- 2018 – 2019 Michael E. Lehman Distinguished Chair for Inspired Learning in Business
- 2017 Wisconsin School of Business Educational Innovation Teaching Award
- 2014 – 2015 Robert Wood Johnson Foundation Health & Society Scholars program Course Development Grant Award on "Expanding Interdisciplinary Course Content on Population Health"
- 2011 Erwin A. Gaumnitz Distinguished Faculty Service from Wisconsin School of Business
- 2007 Doris Slesinger Award for Excellence in Mentoring from UW-Madison Women Faculty Mentoring Program
- 42nd Actuarial Research Conference First Prize (non-graduate student), August 2007 for the presentation "A Bayesian Two-Part Model for Predicting Health Care Costs Using Individual-level Data"
- Award for Outstanding Short Course, 2000. Earned for "Introduction to Bayesian Data Analysis for Medical Decision Making" from the Society for Medical Decision Making
- UW School of Business Larson Teaching Award, 1999
- Halmstad Prize, 1999. Earned for best paper in actuarial research for paper "Forecasting Social Security Actuarial Assumptions" from the Society of Actuaries
- Lew Award, 1998. Earned for achievement in research on modeling for paper "Forecasting Social Security Actuarial Assumptions" from the Society of Actuaries
- President's Appreciation Award, 1998. Earned for professional contribution on project "Impact of Mortality Improvement on Social Security: Canada, Mexico, and the United States" from Anna Rappaport, President of Society of Actuaries
- Zellner Award, 1995. Earned for most outstanding dissertation in business and economic statistics from the American Statistical Association
- Society of Actuaries Ph.D. Grant, 1991, 1992, and 1993
- Michigan Health Care Education and Research Foundation Student Award, August 1991

- Leabo award recipient (Michigan Business School), July 1990
- Unisys Scholarship finalist (Michigan Business School), Fall 1989
- Michigan Business School Doctoral Fellowship (1988 - 1990 academic years)

PAST TEACHING EXPERIENCE:

- Lecturer, University of Michigan Department of Mathematics (Actuarial Mathematics courses), 1991, 1992, 1993 academic years.
- Teaching Assistant, University of Michigan School of Business Administration Core Statistics Course, Winters 1989 1990.

INDUSTRY EXPERIENCE:

- Actuary with Allstate Life Insurance Company, Northbrook, Illinois, June 1977 to July 1988. Worked as an individual life actuary. Combined analytic skills and technical knowledge in management of people and projects.

REFEREED PUBLICATIONS:

- Rosenberg, M., Yun, S., and Kim, K. *Assessing Oral Health in US Children and Its Impact on Disparities of Overall Health and Health Expenditures: An Application Using Two-Stage Clustering*. **North American Actuarial Journal**. 2024;28(4), p. 909 – 924.
- Kim, K. and Rosenberg, M. *Impact of dentition status and barriers to dental care services on perceived oral health of Medicare beneficiaries*. **Journal of Public Health Dentistry**. 2024;84(1):3-12.
- Rosenberg, M. and Zhong, F. *Using Clusters Based on Social Determinants to Identify the Top 5% Utilizers of Health Care*. **North American Actuarial Journal**. 2022;26(3), p. 456 – 469.
- Zhong, F., Rosenberg, M., Agterberg, J., and Crabb, R. *Social Determinant-Based Profiles of US Adults with the Highest and Lowest Health Expenditures Using Clusters*. **North American Actuarial Journal**. 2021;25(1), p. 115-133.
- Gao, L. and Rosenberg, M. *Assessing the Casual Impact of Delayed Oral Health Care on Emergency Department Utilization..* **North American Actuarial Journal**. 2021;25(1), p 40 – 52.
- Agterberg, J., Zhong, F., Crabb, R., and Rosenberg, M. *Cluster Analysis Application to Identify Groups of Individuals with High Health Expenditures*. **Health Services and Outcomes Research Methodology**. 2020;20(2), pp.140-182.
- Kim, K. and Rosenberg, M. *Determinants of Persistent High-Utilizers in US Adults Using Nationally Representative Data*. **North American Actuarial Journal**. 2020;24(1), 1 – 21.
- Levy, J. and Rosenberg, M. *A Latent Class Approach to Modeling Trajectories of Health Care Costs with Application to Cost-effectiveness Modeling*. **Medical Decision Making**. 2019;39(5) 593–604.
- Levy, J., Rosenberg, M., and Vanness, D. *A Transparent and Consistent Approach to Assess US Outpatient Drug Costs for Use in Cost-Effectiveness Analyses*. **Value in Health**. 2018;21(6), 677 – 684.
- Kim, K. and Rosenberg, M. *The Role of Unhealthy Behaviors on an Individual's Self-Reported Perceived Health Status*. **North American Actuarial Journal**. 2018;22(2), 252 - 269.
- Parker-McGill, K, Rosenberg, M, and Farrell, P. *Access to Primary Care and Subspecialty Care After Positive Cystic Fibrosis Newborn Screening*. **Wisconsin Medical Journal**. 2016 Dec;115(6):295-299.
- Levy, JF, Rosenberg, MA, and Farrell, PM. *Innovative Assessment of Inpatient and Pulmonary Drug Costs for Children with Cystic Fibrosis*. **Pediatric Pulmonology**. 2016 Dec;51(12):1295-1303.
- Levy, JF, Meek, PD, and Rosenberg, MA. *US-based Drug Cost Parameter Estimation for Economic Evaluations*. **Medical Decision Making**. July 2015; vol. 35, 5: pp. 622-632.
- Stout, NK, Nekhlyudov, L, Li, L, Malin, E, Ross-Degnan, D, Buist, D, Rosenberg, M, Alfisher, M, and Fletcher, S. *Rapid Increase of Breast Magnetic Resonance Imaging Use: Trends from 2000-2011*. **JAMA Internal Medicine**. 2014;174(1):114-121.
- Rosenberg, MA, Guszczka, J. *Overview of Linear Models*. In EW Frees, RA Derrig, and G Meyers editors, **Predictive Modeling Applications in Actuarial Science**, Cambridge University Press, 2014.
- Batina, N, Trentham-Dietz, A, Gangnon, R, Sprague, B, Rosenberg, M, Stout, N, Fryback, D, Alagoz, O. *Variation in tumor natural history contributes to racial disparities in breast cancer stage at diagnosis*. **Breast Cancer Research and Treatment**. 2013 Apr;138(2):519-28.
- Wang, YC, Graubard, BI, Rosenberg, MA, Kuntz, KM, Zauber, AG, Kahle, L, Schechter, CB, Feuer, EJ. *Derivation of Background Mortality by Smoking and Obesity in Cancer Simulation Models*. **Medical Decision Making**. 2013 Feb;33(2):176-97.

- Rosenberg, MA, Feuer, EJ, Yu, B, Sun, J, Henley SJ, Shanks, TG, Anderson, CM, McMahon, PM, Thun, MJ, Burns, DM, *Cohort Life Tables By Smoking Status Removing Lung Cancer as a Cause of Death*. **Risk Analysis**. 2012;32(s1):S25–S38.
- Johnson, Jr., P, Rosenberg, M, Frees, E. *Analyses of Racial Disparities in U.S. Inpatient Mental Health Treatment*. **Internet Journal of Mental Health**. 2012;7(1): <http://ispub.com/IJMH/7/1/14072>.
- Wells, J., Rosenberg, M., Hoffman, G., Anstead, M., Farrell, P. *A Decision-Tree Approach for a Comprehensive Cost Comparison of Newborn Screening Strategies*. **Pediatrics**. 2012;129(2):e339-e347.
- Frees, E., Gao, J., and Rosenberg, M. *Predicting the Frequency and Amount of Health Care Expenditures*. **North American Actuarial Journal**. 2011;15(3):377-392.
- Rosenberg, M., Johnson Jr., P., and Duncan, I. *Exploring Stakeholder Perspectives on what is Affordable Health Care*. **Risk Management and Insurance Review**. 2010;13(2):251-263.
- Collins, J., Hinshaw, J., Fine, E., and Rosenberg, M. *Radiology Faculty Compliance with Recommended Health Guidelines: Comparison with Residents*. **Academic Radiology**. 2009;16(11):1433-1442.
- Rosenberg, MA and Farrell, PM. *Predictive Modeling of Costs for a Chronic Disease with Acute High Cost Episodes*. **North American Actuarial Journal**. 2008;12(1):1-18.
- Sun, J, Frees, EW, and Rosenberg, MA. *Heavy-Tailed Longitudinal Data Modeling Using Copulas*. **Insurance: Mathematics and Economics**. 2008; 42:817-830.
- Farrell, P, Joffe, S, Foley, L, Canny, G, Mayne, P, and Rosenberg, M. *Diagnosis of Cystic Fibrosis in Ireland: Epidemiology and Costs*. **Irish Medical Journal**. 2007;100(8):557-560.
- Rosenberg M, Frees EW, Sun J, Johnson P, Robinson J. *Predictive Modeling with Longitudinal Data: A Case Study of Wisconsin Nursing Homes*. **North American Actuarial Journal**. 2007;11(3):54-69.
- Burns M, Rosenberg, M, Fiore M, *Use and employer costs of a pharmacotherapy smoking cessation treatment benefit*. **American Journal of Preventive Medicine** 2007 Feb 32(2):139-142.
- Stout NK, Rosenberg, MA, Trentham-Dietz A, Smith MA, Robinson SM, Fryback DG, *Towards Improved Policy: Lessons from a Retrospective Cost-Effectiveness Analysis of Screening Mammography*. **Journal of the National Cancer Institute**. 2006 Jun 7;98(11):774-782.
- Braun AT, Farrell PM, Ferec C, Audrezet MP, Laxova A, Li Z, Kosorok MR, Rosenberg MA, Gershan WM, *Cystic fibrosis mutations and genotype-pulmonary phenotype analysis*. **Journal of Cystic Fibrosis**. 2006 Jan;5(1):33-41. (Epub 2005 Nov 4.)
- Burns ME, Rosenberg MA, Fiore MC. *Use of a new comprehensive insurance benefit for smoking-cessation treatment*. **Preventing Chronic Disease**. 2(4):A15. October 2005.
- Rosenberg MA, *Competing Risks*. **Journal of the National Cancer Institute Monograph**. 2006;(36):15-19.
- Fryback D, Stout N, Rosenberg M, Trentham-Dietz A, Kuruchittham V, Remington P. *The Wisconsin Breast Cancer Epidemiology Simulation Model*. **Journal of the National Cancer Institute Monograph**. 2006;(36):37-47.
- Berry DA, Cronin KA, Plevritis SK, Fryback DG, Clarke L, Zelen M, Mandelblatt JS, Yakovlev AY, Habbema JDF, Feuer EJ for the Cancer Intervention and Surveillance Modeling Network (CISNET) Collaborators. *Effect of Screening and Adjuvant Therapy on Mortality from Breast Cancer*. **New England Journal of Medicine** 2005; 353:1784-92, October 27, 2005.
- Rosenberg M. and Farrell, P. *Assessing the Cost of Cystic Fibrosis Diagnosis and Treatment*. **Journal of Pediatrics**. 147:3:S101-S105, September 2005.
- Lee, D., Rosenberg M., Peterson, A., Makhholm, L., Hoffman, G., Laessig, R., Farrell, P. *Analysis of the Costs of Diagnosing Cystic Fibrosis with a Newborn Screening Program*. **Journal of Pediatrics**, 142:6(2003):617-23.
- Carnes M, Howell T, Rosenberg M, Francis J, Hildebrand C*, Knuppel J. *Physicians vary in approaches to clinical management of delirium*. **Journal of American Geriatrics Society**, 51(2):234-9, 2003.
- Linzer, M., Rosenberg, M., McMurray, J., Glassroth, J., *Respecting the lifecycle: Rational workforce planning for a Section of General Internal Medicine*. **American Journal of Medicine**, Volume 113, October 2002, pp. 443-448.
- Rosenberg, M. and Browne, M., *The Impact of the Inpatient Prospective Payment System and Diagnosis-Related Groups: A Survey of the Literature*. **North American Actuarial Journal**, 5:4(2001):84-94.
- Rosenberg, M., *A Decision-Theoretic Method for Assessing a Change in the Rate of Non-Acceptable Inpatient Claims*. **Health Services and Outcomes Research Methodology**, 2:1(2001):19-36.
- Rosenberg, M., *A Statistical Method for Monitoring a Change in the Rate of Non-Acceptable Inpatient Claims*. **North American Actuarial Journal**, 5:4(2001):74-83.
- Rosenberg, M., Fryback, D., Katz, D., *A Statistical Model to Detect DRG Upcoding*. **Health Services and Outcomes Research Methodology**, 1:3-4(2000):233-252.
- Crandall, C., Zitzelberger, T., Rosenberg, M., Winner, C., and Holaday, L., *Information Technology and the Centers of Excellence*. **Journal of Women's Health and Gender-Based Medicine**, Volume 10, Number 1, 2001, pp. 49 – 55.

- Fryback, D., Stout, N., Rosenberg, M., *An Elementary Introduction to Bayesian Computing Using WinBUGS*. **International Journal of Technology Assessment in Health Care**, Volume 17, Number 1, Winter 2001, pp. 98 - 113.
- Foster, S., McMurray, J., Linzer, M., Leavitt, J., Rosenberg, M., Carnes, M., *Assessing the Climate: The Gender Climate Survey Report from a Midwest Academic Health Center*. **Academic Medicine**, Volume 75, No. 6, June 2000, 79 - 86.
- Rosenberg, M. and Griffith, J., *A Management Tool for Controlling the Rate of Non-Acceptable Inpatient Hospital Claims*, **Inquiry**, Volume 36, Number 4, Winter 1999/2000, pp. 461 - 470.
- Rosenberg, M. and Young, V., *A Bayesian Approach to Time Series*, **North American Actuarial Journal**, Volume 3, Number 2, April 1999, pp. 130-43.
- Rosenberg, M., Fryback, D., and Lawrence, W., *Computing Population-Based Estimates of Health-Adjusted Life Expectancy*. **Medical Decision Making**, Volume 19, Number 1, January-March 1999, pp. 90 - 97.
- Rosenberg, M., Andrews, R., and Lenk, P., *A Hierarchical Bayesian Model for Predicting the Rate of Non-Acceptable In-Patient Hospital Utilization*, **Journal of Business and Economic Statistics**, Volume 17, Number 1, January 1999, pp. 1 - 8.
- Rosenberg, M. and Luckner, W., *Summary of Survey Results of Impact of Mortality Improvement on Social Security: Canada, Mexico, and the US*, **North American Actuarial Journal**, October 1998, Volume 2, Number 4, pp. 64 - 82.
- Rosenberg, M., *A Statistical Control Model for Utilization Management Programs*, **North American Actuarial Journal**, Volume 2, Number 2, April 1998, pp. 77 - 87.
- Frees, E.W., Kung, Y.C., Rosenberg, M.A., Young, V.R., and Lai S.W., *Forecasting Social Security Actuarial Assumptions*, **North American Actuarial Journal**, October 1997, Volume 1, Number 4, pp. 49 - 82.

NON-REFEREED PUBLICATIONS:

- Rosenberg, M. and Yun, S. *Using Social Determinants to Identify Profiles of US Children with Low Dental Expenditures and High Medical Expenditures with Clusters*. Sponsored research published online by the Society of Actuaries at <https://www.soa.org/resources/research-reports/2021/2021-oral-health-children/>. November 2021.
- Frees, E., Johnson, P., and Rosenberg, M. *Actuarial Open Educational Resources*. **Expanding Horizons**, a publication of the Education and Research Section of the Society of Actuaries. November 2021. <https://www.soa.org/sections/education-research/educ-research-newsletter/2021/november/ehn-2021-11-frees/>
- Rosenberg, M. et al. *Getting Schooled*. **The Actuary Magazine**. February/March 2019. <https://theactuarmagazine.org/getting-schooled/>
- Rosenberg, M. *Building a Culture of Health: The Role of Actuaries in Affecting the Health of their Communities*. **The Actuary Magazine**. February 2018 Web Exclusive. <https://theactuarmagazine.org/building-culture-health/>
- Hileman, G., Mehmod, S, and Rosenberg, M. Sponsored research project of the Society of Actuaries. *Risk Scoring in Health Insurance: A Primer*. 2016. <https://www.soa.org/Research/Research-Projects/Health/2016-risk-scoring-primer.aspx>.
- Halek, Martin, Rosenberg, Margie, Valliappan, Vignesh, Conway, Jimmy. Sponsored research project of the Society of Actuaries. *Implications of the Cost of End of Life Care: A Review of the Literature*. 2012. <http://www.soa.org/Research/Research-Projects/Health/Research-Projects-in-Health.aspx>.
- Rosenberg, M., Discussion of Udi Makov article, *Principal Applications of Bayesian Methods in Actuarial Science: A Perspective*. **North American Actuarial Journal**, 5:4(2001):57-60.
- Sze, M. and Rosenberg, M., *Overview of the Project: Impact of Mortality Improvement on Social Security: Canada, Mexico, and the United States*, **North American Actuarial Journal**, October 1998, Volume 2, Number 4, pp. 10 -12.
- Rosenberg, M. and Young, H., *Stochastic Simulation using Spreadsheet Software*, Proceedings of the Thirty-first Annual Actuarial Research Conference 1996, Volume 1997.1, pp. 73 - 89.
- Nesbitt, C., Rosenberg, M., Berger, L., Levinsky, M., Nerdrum, A., O'Donnell, S., Samaniego, D., and Trendel, A., *Some Financing Options for Social Security*, Proceedings of the Twenty-ninth Annual Actuarial Research Conference 1994, Volume 1995.1, pp. 381 - 417.
- Nesbitt, C.J., and Rosenberg, M.A., *Annuities for the Aged*, Proceedings of the Twenty-sixth Annual Actuarial Research Conference 1991, Volume 1992.1, pp. 251 - 289.

WORK IN PROGRESS:

- Rosenberg, M. *Economic Burden of Being Toothless*.

- Rosenberg, M. *Profiles of Baseline Risk in a 4-year Longitudinal Study and their Association with Complete Edentulism and Death.*
- Kim, K. and Rosenberg, M., *Role of Private Equity in Dental Insurance.*
- Kim, K. and Rosenberg, M., *Dental Loss Ratio Regulations Increased Claims Spending, with Spillover Effects in Non-Regulated States.*
- Ghorbani Pashakolaei, Alireza and Rosenberg, M. *Determinants of Pediatric Oral Health Quality.*

ACTIVE and RECENT RESEARCH GRANT ACTIVITY:

- Society of Actuaries. Grant (01/20 – 08/22) for the project entitled *Assessing Oral Health in US Children and Its Impact on Disparities of Overall Health and Health Expenditures using Machine Learning Methods* with the purpose is to develop novel ways to assess the oral health of US children, and subgroups of children, over time using nationally representative data. I am the PI.
- Society of Actuaries. Five-year grant (07/15 – 06/20) for the project entitled *Insurance Analytics: From Data Analysis to Decision Making*. This project is joint work with Peng Shi (PI) and Edward (Jed) Frees (co-PI) where we will explore traditional and non-traditional areas where analytics add value to decision-making: (i) dependence models in insurance operations; (ii) predictive modeling in health care; (iii) insurance and risk management theory. My role on the project is co-principal investigator and responsible for the second area.
- Society of Actuaries. One-year grant (11/13 – 10/14) for the project entitled *Potential Sources of Bias in Small Group and Individual Market Risk Adjustment*. This project is joint work with Geof Hileman (PI) and Syed Mehmud (co-PI) where we will explore the impact of the HHS formula for risk adjustment as introduced in the Affordable Care Act. My role on the project is co-principal investigator.
- Society of Actuaries. Three-year grant (09/10 – 08/13) for the project entitled *Technology Enhanced Learning in Actuarial Science Classes*. Principal investigator is Edward (Jed) Frees. This grant provides a systematic plan for integrating technology enhanced learning tools into actuarial science classes. My role on the project is co-principal investigator.
- ACS. Five-year grant (01/10 – 12/14) for the project entitled *Community Breast MRI Screening: Clinical and Economic Implication*. Principal investigator is Natasha Stout. This project is a mentored career development award to study the uptake and outcomes associated with screening breast MRI use in a community setting. My role on the project is as a mentor.
- Society of Actuaries. One-year grant (09/11 – 08/12) for the project entitled *Implications of the Cost of End of Life Care: A Review of the Literature*. Principal investigator is M. Rosenberg and co-Principal investigator is M. Halek. The purpose of the research is to summarize the literature by examining health care resources used, as well as the balance with quality of life, medical advancements, psychological and financial impact on family members, and disparity issues. These issues will be explored from multiple perspectives as the physician may consider the issue differently than the patient, their family members, the health care system, payers and actuaries, as well as society in aggregate. This research will synthesize articles from multiple peer-reviewed journals, as well as non-peer reviewed.
- NCRR/NIH. Five-year grant (10/07 – 9/12) for the project entitled *University of Wisconsin Clinical and Translational Science Award*. I am supported on this grant to provide support to researchers in areas related to health outcomes.
- NIDDK / NIH. Five-year grant (1/07 – 12/12) for the project entitled *Pulmonary Benefit of Cystic Fibrosis Neonatal Screening*. Principal investigator is Philip Farrell. This is a comprehensive, randomized clinical trial and research program addressing the hypothesis that early diagnosis of cystic fibrosis through neonatal screening will be medically beneficial and cost-effective without major risks. I am a co-investigator on this project with my role to develop an actuarial model that measures the cost-effectiveness of screening for cystic fibrosis.
- NIH/NCI. Three-year grant (7/07 – 6/10) for the project entitled *Using the UWBCS to Assess Racial Disparities in Breast Cancer Incidence & Survival*. Principal investigator is Oguzhan Alagoz. This project uses a functional computer simulation model—the University of Wisconsin Breast Cancer Simulation (UWBCS)—to predict breast cancer incidence, survival, and mortality rates for all female women over age 20 years in the U.S. The aims of this project are to enhance the UWBCS by incorporating race (African American, white) into the model to assess the differential impacts on breast cancer incidence and mortality of screening and treatment improvements on women according to racial subgroups. My role on the project is provide guidance.
- AHRQ. One-year grant (9/06 – 8/07) for the project entitled *Longitudinal Modeling of Health Care Expenditures*. Principal investigator is Edward (Jed) Frees; I am the co-principal investigator. The long-term aims of this project are to provide tools to policymakers and healthcare professionals to help assess the impact of system changes, such as the success of disease management programs and cost-effectiveness analyses. The work will emphasize the analysis of longitudinal data with the goal of better aligning analytic models with empirical data patterns.

- Society of Actuaries: Eight-month contract (6/06 – 1/07) for project entitled *Risk Terminology and Measurement/Modeling*. Principal investigator is Joan Schmit. I am a co-investigator. The purpose of the research is to develop a better understanding of how various risk-related terms are defined and measured across organizations and industries. The results are intended for future work that will lead to a commonality in terminology for improved communication and more efficient working relationships.
- NCI / NIH. One-year contract (9/04 – 12/05) for project entitled *Estimating Other Cause Mortality Cohort Life Tables for Lung Cancer*. I am the Principal investigator. The major goal of this contract is to create cohort life tables for mortality other than lung cancer that considers smoking status.
- Society of Actuaries: One-year grant (11/04 – 11/05) for project entitled *Patterns and Utilization of Infliximab and Impact on Direct Medical and Indirect Costs in Individuals Diagnosed with Inflammatory Bowel Disease*. Patrick Meek of the Albany School of Pharmacy is the PI. I am a co-investigator along with Nilay Shah of the Department of UW Population Health Sciences. The major goal of this grant to compare utilization and costs of persons with Inflammatory Bowel Disease for those using the drug infliximab versus those who do not.
- NIDDK / NIH. Five-year grant (5/01 – 4/06) for the project entitled *Pulmonary Benefit of Cystic Fibrosis Neonatal Screening*. Principal investigator is Philip Farrell. This is a comprehensive, randomized clinical trial and research program addressing the hypothesis that early diagnosis of cystic fibrosis through neonatal screening will be medically beneficial and cost-effective without major risks. I am a co-investigator on this project with my role to develop an actuarial model that measures the cost-effectiveness of screening for cystic fibrosis.
- Robert Wood Johnson. Three and one-half year grant (4/01 – 12/04) for the project entitled *The State Employer Initiative (SEI): Examining the decision to purchase health insurance coverage for tobacco dependence treatment*. Principal investigator is Michael Fiore. The purpose of the project is to examine the decision to purchase health insurance coverage for tobacco dependence treatment for state employees. I am a co-investigator on this project with my role to analyze the data and assess the cost of the smoking cessation benefit to the participating health plans.
- National Cancer Institute / NIH. Five-year grant (9/00 – 8/05) for the project entitled *Simulating Breast Cancer in Wisconsin*. Principal investigator is Dennis Fryback. The major goals of this grant are to develop a breast cancer epidemiology simulation model for the population of Wisconsin and to demonstrate its use in conjunction with a breast cancer surveillance program. I am a co-investigator on this project with my role to develop the Bayesian portion and provide support for other aspects of the project.

PRESENTATIONS (2002 - 2025): (*) indicates referred presentations or posters

2025

- *Statistical Pitfalls: What to do about Missing Data?*. Presentation at the Society of Actuaries ValAct Virtual Meeting in Sept. 2025.
- *Statistical Pitfalls: What to do about Missing Data?*. Presentation at the Society of Actuaries ValAct Meeting in August 2025.

2024

- *Considerations for Regression Modeling*. Presentation at the Society of Actuaries ValAct Virtual Meeting in Sept. 2024.
- *Considerations for Regression Modeling*. Presentation at the Society of Actuaries ValAct Meeting in August 2024.

2023

- *Solving Unknown Problems with Clustering: Identification of High Utilizers Using Clustering*. Presentation at the Society of Actuaries Health Meeting in June 2023.
- *The Impact of Dentition Status and Barriers to Dental Care Services on Perceived Oral and General Health of Medicare Beneficiaries*. Presentation at the One World Actuarial Research Seminar (OWARS) in March 2023.

2022

- *Discuss the "I" of DEI*. Organized and moderated a discussion on topics relevant to actuarial educators at the Actuarial Research Conference in August 2022
- *Actuarial Educators Forum*. Moderated and helped organize a discussion on topics relevant to actuarial educators at the Actuarial Research Conference in August 2022.
- *Health Analytics in Education*. Presentation for Health Analytics Subgroup of the Society of Actuaries in July 2022.
- *Background on Clustering Techniques*. Presentation at the SOA Health Meeting in June 2022.

- *Two-Stage Clustering to Assess the Impact of Low Dental Expenditures on Outcomes for Children.* Presentation at the SOA Health Meeting in June 2022.

2021

- *Self-Organizing Maps to Examine Determinants of Loneliness in Older Adults.* Joint work with S. Yun. Presentation at the SOA Actuarial Research Conference in August 2021.
- *Two-Stage Clustering to Assess the Impact of Low Dental Expenditures on Outcomes for Children.* Joint with S. Yun. Presentation at the SOA Actuarial Research Conference in August 2021.
- *A Clustering Approach using Social Determinants to Identify Profiles of US Children and their Families with Low Dental Expenditures and High Medical Expenditures.* Joint work with S. Yun. Presentation at the SOA Health Meeting in June 2021.
- *Defining, Measuring and Evaluation Innovation.* With J. Barrett, J. Dolstad, and I. Duncan. Presentation at the SOA Health Meeting in June 2021.
- *A Clustering Approach using Social Determinants to Identify Profiles of US Children and their Families with Low Dental Expenditures and High Medical Expenditures.* Joint work with S. Yun. Presentation at the Illinois Risk Symposium in March 2021.
- *A Clustering Approach using Social Determinants to Identify Profiles of US Children and their Families with Low Dental Expenditures and High Medical Expenditures.* Joint work with S. Yun. Presentation at the London School of Economics and Political Science in March 2021.
- *A Cluster Analysis Application Using only Social Determinant Variables to Predict Profiles of US Adults having the Highest Health Expenditure.* Joint work with F. Zhong. Presentation at the University of Minnesota in January 2021.

2020

- *Introduction to Research.* Presentation at the Society of Actuaries Annual Meeting in October 2020.
- *A Cluster Analysis Application Using only Social Determinant Variables to Predict Profiles of US Adults having the Highest (and Lowest) Health Expenditure.* Joint work with F. Zhong. Presentation to Wisconsin Primary Health Care Association in October 2020.
- *A Cluster Analysis Application Using only Social Determinant Variables to Predict Profiles of US Adults having the Highest (and Lowest) Health Expenditure.* Joint work with F. Zhong. Presentation to UW-Madison Actuarial Club in October 2020.
- *Predicting the Highest Health Care Utilizers Using Clustering Methods.* Joint work with F. Zhong. Presentation at Actuarial Research Conference in August 2020.
- (*) *Predicting Individuals with the Highest Health Care Expenditures: Finding a Needle in a Hay Stack.* Joint work with F. Zhong. Poster presentation at Academy Health Annual Research Conference in July 2020.
- *The Impact of Oral Health and the Role of the Actuary.* Joint work with Joanne Fontana (Milliman). Presented at monthly meeting of the Public Health Interest Group of the Society of Actuaries in February 2020.

2019

- *Actuarial Fairness in the Era of Machine Learning.* Webinar organized by the Predictive Analytics and Futurism (PAF) and Technology (Tech) in August 2019.
- *Assessing the Causal Impact of Delayed Oral Health Care on Emergency Department Utilization.* Joint work with L. Gao. Presented at the Actuarial Research Conference in Indianapolis, IN in August 2019.
- *Profiles of US Adults Based on Social Determinants and their Impact on Oral Health Outcomes and Health Expenditures.* Joint work with F. Zhong. Presented at the Actuarial Research Conference in Indianapolis, IN in August 2019.
- *Why is Health Insurance only Medical Coverage? The disconnect between Dental and Medical Care.* Presented at the Society of Actuaries Health Meeting in June 2019 in Phoenix, AZ.
- *Profiles of US Adults Based on Social Determinants and their Impact on Oral Health Outcomes and Health Expenditures.* Joint work with F. Zhong. Presented at the Society of Actuaries Health Meeting in June 2019 in Phoenix, AZ.
- *Clustering Techniques for Predicting Health Expenditures with All Categorical Variables.* Joint work with J. Agterberg, F. Zhong, and R. Crabb. Presented at Temple University Risk Management and Insurance Seminar in February 2019.

2018

- *Unsupervised Clustering with All Categorical Variables*. Joint work with J. Agterberg, F. Zhong, and R. Crabb. Presented at Brigham Young University Department of Statistics Seminar in November 2018.
- *Clustering Techniques for Predicting Health Expenditures*. Joint work with J. Agterberg, F. Zhong, and R. Crabb. Presented at UW Health Economics Group Seminar in October 2018.
- *Unsupervised Clustering with All Categorical Variables*. Joint work with J. Agterberg, F. Zhong, and R. Crabb. Presented at the Society of Actuaries Predictive Analytics Symposium in September 2018 in Minneapolis, MN.
- *Unsupervised Clustering with All Categorical Variables*. Joint work with J. Agterberg, F. Zhong, and R. Crabb. Presented at the Actuarial Research Conference in August 2018 in London, ON.
- (*) *Identification of Persistent High-Utilizers and the Role of Multiple Unhealthy Behaviors*. Joint work with K. Kim. Presented at the International Conference of Health Policy Statistics in January 2018 in Charleston, SC.

2017

- *A Numerical Taxonomy Application to Cluster Individuals for Predicting Health Care Expenditures*. Joint work with J. Agterberg, F. Zhong, and R. Crabb. Presented at the Society of Actuaries 2017 Predictive Analytics Symposium in September 2017 in Chicago, IL.
- *Ordinal Logistic Regression Models*. Joint work with K. Kim presented at the Society of Actuaries 2017 Predictive Analytics Symposium in September 2017 in Chicago, IL.
- (*) *Identification of Persistent High-Utilizers and the Role of Multiple Unhealthy Behaviors*. Joint work with Kyeonghee Kim, PhD student at UW-Madison. Presented at the ARIA Conference in August 2017 in Toronto, ON.
- *Identification of Persistent High-Utilizers and the Role of Multiple Unhealthy Behaviors*. Joint work with Kyeonghee Kim, PhD student at UW-Madison. Presented at the Actuarial Research Conference in July 2017 in Atlanta, GA.
- (*) *Identification of Persistent High-Utilizers and the Role of Multiple Unhealthy Behaviors*. Joint work with Kyeonghee Kim, PhD student at UW-Madison. Presented at the AcademyHealth, Health Economics Interest Group in June 2017 in New Orleans, LA.

2016

- (*) *Latent growth modeling*. Joint work with Joe Levy, PhD student at UW-Madison. Presented at the Society of Medical Decision Making Meeting in October 2016 in Vancouver, BC.
- *Risk Scoring: A Primer Plus*. Presented at the Society of Actuaries Health Meeting in June 2016. Philadelphia, PA.
- *The role of unhealthy behavior on perceived health status*. Joint work with Kyeonghee Kim, PhD student at UW-Madison. Presented at the Actuarial Research Conference in July 2016 in Minneapolis, MN.

2015

- *Use of Survey Sampling Techniques with Big Data: Application to Health Care Modelling*. Presented at the Actuarial Research Conference in August 2015 in Toronto, ON.
- (*) *US Based Drug Cost Parameter Estimates Using National Average Drug Acquisition Cost*. Joint work with Joe Levy, PhD student at UW-Madison and David Vanness. Presented at the ISPOR 20th Annual International Meeting in May 2015 in Philadelphia, PA.

2014

- *Comparison of Imputation Techniques for Missing Data for Potentially Informative Missingness: An Application to Childhood Obesity using the Medical Expenditures Panel Survey*. Joint work with Michael Wurm, PhD student at UW-Madison. Presented at the Actuarial Research Conference in July 2014 in Santa Barbara, CA.
- *Longitudinal Studies with Complex Data: Example Using the Wisconsin Cystic Fibrosis Newborn Screening Study*. Joint work with Joe Levy, PhD student at UW-Madison and Philip Farrell. Presented at the Society of Actuaries Health Meeting in June 2014 in San Francisco, CA.

2013

- *Longitudinal Study of the Direct Medical Costs of Pediatric Cystic Fibrosis*. Joint work with Joe Levy, PhD student at UW-Madison, Patrick Meek, and Philip Farrell. Presented at the North American Cystic Fibrosis Conference, Poster, Salt Lake City UT, October 2013.

- *Risk Adjustment and the Patient Protection and Affordable Care Act*. Joint work with Michael Wurm, PhD student at UW-Madison. Presented at the Actuarial Research Conference in August 2013 in Philadelphia, PA.
- *Assessment of a University-Based Actuarial Program: A Case Study of UW-Madison*. Presented at the Actuarial Research Conference in August 2013 in Philadelphia, PA.
- *Design Issues for Actuarial Studies*. Presented at the Society of Actuaries Health Meeting in June 2013 in Baltimore, MD.
- *Assessing Drug Costs for use in Comparative Effectiveness Research*. Joint work with Joe Levy, PhD student at UW-Madison, Patrick Meek, David Vanness, and Philip Farrell. Presented at the International Society of Pharmacoeconomic Outcomes Research North American Meeting in May 2013 in New Orleans, LA.
- *Determinants of Reputational Risk*. Joint work with Joan Schmit and Shinichi Kamiya. Presented at University of Swansea School of Business and Economics Research Seminar in March 2013 in Swansea, Wales.

2012

- *Linear and Generalized Linear Modeling*. Presented at the Society of Actuaries Seminar in November 2012 in Las Vegas, NV.
- *Actuarial Issues Related to Comparative Effectiveness Analysis*. Presented at the Society of Actuaries Annual Meeting in October 2012 in Washington, DC.
- *An Introduction to Causal Analysis on Observational Data using Propensity Scores*. Presented at the 47th Actuarial Research Conference in August 2012 at the University of Manitoba.
- *Generalized Linear Models for Health Actuaries*. Presented at the Society of Actuaries Health Meeting in June 2012 in New Orleans, LA.
- *Implication of the Cost of End of Life Care: A Review of the Literature*. Joint work with Martin Halek. Presented at the Society of Actuaries Health Meeting in June 2012 in New Orleans, LA.

2011

- *Predictive Modeling Fundamentals and Pitfalls*. Presented at the Society of Actuaries Health Meeting in June 2011 in Boston, MA.
- *Company Partnership in Academic Research: A How-to Guide*. Joint work with Joan Barrett. Presented at the 46th Actuarial Research Conference in August 2011 the University of Connecticut.
- *Development of Life Tables for Small Areas Using Ecological Variables*. Presented at the 46th Actuarial Research Conference in August 2011 the University of Connecticut.

2010

- *Statistics for Reading the Healthcare Services and Policy Literature*. Presented at the Society of Actuaries Health Meeting in June 2010 in Orlando, FL.
- *Technology Enhanced Learning for Actuarial Education*. Joint work with Edward (Jed) Frees. Presented at the 45th Actuarial Research Conference in August 2010 in Vancouver, BC.

2009

- *Radiology Faculty Compliance with Recommended Health Guidelines: Comparison with Residents*. Joint work with Janette Collins, James Hinshaw, Elizabeth Fine. Presented at the Association of University Radiologists meeting in May 2009 in Arlington, VA.
- *Comprehensive Cost Comparison Of Newborn Screening Strategies With Novel Inclusion Of Costs Related To Genetic Counseling And Collection Of Second Specimens*. Joint work with Janelle Wells, Gary Hoffman, Michael Anstead, and Philip Farrell. Presented at the European Cystic Fibrosis Society Conference in June 2009 in France.
- *Health Outcomes: The Use of Electronic Medical Records in the Identification and Management of Patients with Diabetes*. Organizer, moderator and presenter at the 2009 Health Spring Meeting sponsored by the Society of Actuaries in Toronto in June 2009.
- *A Decision-Tree Approach for a Comprehensive Cost Comparison of Newborn Screening Strategies*. Joint work with Janelle Wells, Gary Hoffman, Michael Anstead, and Philip Farrell. Presented at the 2009 Actuarial Research Conference in Madison, WI in July 2009.
- *Determinants of Insurers' Reputational Risk*. Joint work with Shinichi Kamiya and Joan Schmit at the American Risk and Insurance Association in Providence in August 2009.
- *National Assessment of Cystic Fibrosis Center Accessibility*. Joint work with Kathlyn Parker and Philip Farrell presented at the North American Cystic Fibrosis Conference in Minneapolis in October 2009.

- *Using Computer Simulation to Investigate Racial Disparities in the Natural History of Breast Cancer.* Joint work with N. Batina, O. Alagoz, A. Trentham-Dietz, R. Gangnon, and D. Fryback at the 2009 Annual Meeting for the Society of Medical Decision-Making in Hollywood, CA in October 2009.

2008

- *A Bayesian Two-Part Model for Predicting Health Care Costs Using Individual-level Data.* Presented joint work with P. Farrell at the 2008 Health Spring Meeting sponsored by the Society of Actuaries in Los Angeles in May 2008.
- *Health Outcomes: The Impact of Cancer Control Interventions.* Moderated session at the 2008 Health Spring Meeting sponsored by the Society of Actuaries in Los Angeles in May 2008.

2007

- (*) *Derivation of life tables by smoking and obesity and their utility in public health policy models.* Refereed poster presentation by Y. Claire Wang (presenter), Barry I. Graubard, , Karen M. Kuntz, , **Marjorie A. Rosenberg**, Katherine M. Flegal, and Eric J. Feuer, at the Society of Medical Decision Making Meeting in Pittsburgh in October 2007.
- *A Bayesian Two-Part Model for Predicting Health Care Costs Using Individual-level Data.* Presented joint work with P. Farrell at the 42nd Actuarial Research Conference in Pittsburgh, PA in August 2007.
- *Advanced Predictive Modeling Workshop.* Presented jointly with Edward (Jed) Frees at the 2007 DMAA/SOA Predictive Modeling Seminar in Orlando, FL in April 2007.

2006

- (*) *Comparing alternative propensity score methods: Measuring resource use after initiating infliximab treatment in Crohn's disease.* Refereed poster presentation by P. Meek (presenter), N. Shah, **M. Rosenberg**, H. Van Houten at the Society of Medical Decision Making Meeting in Boston in October 2006.
- (*) *Development of Cohort Life Tables for "Other Causes" for Use in Simulation Modeling.* **M. Rosenberg.** Invited presentation at the Joint American Statistical Association Meeting in Seattle in August 2006.
- *Heavy-Tailed Longitudinal Data Modeling Using Copulas.* Jiafeng Sun (presenter) , Edward Frees, Marjorie Rosenberg, Society of Actuaries Annual Research Conference, Quebec City Canada in August 2006.
- *Heavy-Tailed Longitudinal Data Modeling Using Copulas.* Jiafeng Sun, Edward Frees (presenter), Marjorie Rosenberg, Leuven, Belgium in July 2006.
- *Introduction to Research Methods for Actuaries.* I. Duncan, K. Fitzner, and **M. Rosenberg.** Extension of presentation from the November 2005 Society of Actuaries Meeting to be presented at the June 2006 Society of Actuaries Meeting.
- *Use of Infliximab for Ulcerative Colitis in the Pre-ACT I/II Era: An Analysis of 2000-2001 Commercial Insurance Claims.* Referred poster presentation by Patrick Meek (joint work with **M. Rosenberg** and N. Shah) during Digestive Disease Week in Los Angeles CA in May 2006.

2005

- *Is the U.S. Health Care System In or Near Crisis?.* **M. Rosenberg** and P. Johnson Jr. Presentation at the November 2005 Society of Actuaries Meeting.
- *State Employer Initiative.* M. Burns, **M. Rosenberg**, T. Bosworth, N. Woolf, N. Shah, M. Fiore. Presentation at the annual meeting for Robert Wood Johnson Foundation for Transdisciplinary Tobacco Use Research Centers.
- *Introduction to Research Methods for Actuaries.* H. Dove, I. Duncan, **M. Rosenberg.** Presentation at the June 2005 Society of Actuaries Meeting.
- *Analysis of Costs for a Chronic Disease with Acute High Cost Episodes.* **M. Rosenberg.** Presentation at the June 2005 Society of Actuaries Meeting.

2004

- (*) *The Case for Limited Malignant Potential Breast Cancer.* D. Fryback, N. Stout, **M. Rosenberg**, A. Trentham-Dietz. , Presentation at the October 2004 Society for Medical Decision-Making Meeting. Paper presented by Dennis Fryback.
- (*) *Could we have Done Better? A Retrospective Cost-Effectiveness Analysis of Routine Screening Mammography.* N. Stout, **M. Rosenberg**, A. Trentham-Dietz, M. Smith, S. Robinson, D. Fryback, Presentation at the October 2004 Society for Medical Decision-Making Meeting. Paper presented by Natasha Stout, PhD student of the UW Population Health Sciences Department.
- *Cohort Life Tables Removing Lung Cancer as a Cause of Death.* **M. Rosenberg**, R. Feuer, B. Yu, J. Sun, J. Henley, M. Thun, T. Shanks, C. Anderson, J. Knoke, J. Vaughn, D. Burns. Presentation at the CISNET lung meeting in November 2004 in Washington, DC. Follow-up meeting to update on results from June 2004 meeting.

- *Development of Cohort Life Tables for "Other Causes" for Use in Simulation Modeling.* **M. Rosenberg.** Presentation at the Actuarial Research Conference in August 2004 in Iowa City, IA.
- *Cohort Life Tables Removing Lung Cancer as a Cause of Death.* **M. Rosenberg,** R. Feuer, B. Yu, J. Sun, J. Henley, M. Thun, T. Shanks, C. Anderson, D. Burns. Presentation at the CISNET lung meeting in June 2004 in Santa Monica, CA.
- (*) *Determinants of Prescription Drug Utilization: The Role of Race and Ethnicity.* N. Shah, **M. Rosenberg,** J. Mullahy, M. Smith, D. Vanness. **Invited** presentation by **M. Rosenberg** at the Society of Actuaries Prescription Drug Symposium in May 2004 in Los Angeles, CA.

2003

- *Issues Related to the Cost of Treatment of Cystic Fibrosis.* **Rosenberg, MA** and Farrell, PM. Presentation at a CDC workshop regarding the benefits of newborn screening in Atlanta, GA in November 2003. (Note: due to a scheduling conflict, my presentation was physically made by my co-author, Philip Farrell.)
- *State Employer Initiative: Preliminary Findings.* Fiore MC, Burns ME, **Rosenberg M,** Bosworth TB, Shah N. Presentation at the RWJF Transdisciplinary Tobacco Use Research Centers, Policy Research Meeting. October 2003 Chicago, IL. Presented by co-author Marguerite Burns.
- *Estimating Other Cause Mortality Cohort Life Tables for Lung Cancer.* **Rosenberg, M** and Sun, J. Presentation to the lung cancer group of the status of the project to create mortality tables for causes of death other than lung cancer at the annual CISNET meeting in Washington DC, November 2003.
- (*) *The Appropriateness of Assuming a Lognormal Distribution when Modeling Health Care Costs.* **Rosenberg, M.** Poster presentation at the Medical Decision Making meeting in Chicago, IL Oct 2003.
- (*) *Can Routine Screening Really Reduce Breast Cancer Mortality by 40-60%?* Stout NK, **Rosenberg MA,** Remington PL, Trentham-Dietz A, Fryback DG Medical Decision Making, 2003. Oral presentation by N. Stout at the Society for Medical Decision Making Annual Meeting, Chicago IL, October 2003.
- (*) *Does Diagnosis by Screening Mammography Lead to a Gain in Life Expectancy for Women with Breast Cancer and if so How Much?* Stout NK, **Rosenberg MA,** Fryback DG. Medical Decision Making, 2003. Poster presentation at the Society for Medical Decision Making Annual Meeting, Chicago IL, October 2003.
- (*) *Bayesian methods in modeling health care cost data.* **Rosenberg, MA,** Flood, GE, Fryback, DG. **Invited** presentation to the International Conference on Health Policy Research (section of the American Statistical Association) in Chicago, IL, October 2003. Joint work with Dennis Fryback and Grace Flood (UW Medical School).
- *CF Policy Data Monitoring Meeting.* **Rosenberg, MA.** Presentation to the Data Monitoring Board of the progress of the cost study for the cystic fibrosis project in Madison, WI, September 2003.
- *A Bayesian Two-Part Model to Determine Increased Costs of Undiagnosed Sleep Apnea.* **Rosenberg, MA,** Flood, GE, Fryback, DG. Presentation to the Actuarial Research Conference in Ann Arbor, MI during August 7 – 10, 2003. Joint work with Dennis Fryback and Grace Flood (UW Medical School).
- *Introductory Bayesian Data Analysis in Health and Medicine.* **Fryback, DG and Rosenberg, MA.** **Invited** presentation to the Centers for Disease Control (CDC) in Atlanta, GA on July 30, 2003 for a one-day workshop on Bayesian methods. Co-presented with Dennis Fryback (UW Medical School.)
- (*) *Population-Based Assessment: Use and Cost of a New Benefit for Smoking Cessation.* Burns, M, **Rosenberg, M,** Fiore, M, Poster presentation at the Society of Research on Nicotine and Tobacco Meeting in February 2003 in New Orleans, LA. (Poster presented by colleague Marguerite Burns of the Center for Tobacco Research and Intervention.)
- *The State Employer Initiative (SEI): Examining the decision to purchase health insurance coverage for tobacco dependence treatment.* Fiore MC, Burns ME, **Rosenberg M,** Bosworth TB, Shah N. Presentation at the NIH-RWJF Transdisciplinary Tobacco Use Research Centers' Annual Meeting in January 2003 in Santa Fe, New Mexico. (Presentation made by co-author Michael Fiore)

2002

- *MCMC Applications in Health Care.* Presentation at the Society of Actuaries Annual Meeting in Boston, MA in October 2002. Joint work with Dennis Fryback and Grace Flood (UW Medical School) and Bernie O'Brien and Ana Johnson-Masotti (McMaster University).
- (*) *Construction, Verification, and Calibration of a Discrete Event Simulation Model of Breast Cancer Epidemiology in Wisconsin.* Presentation by Natasha Stout (PhD Student, UW Medical School) at the Society of Medical Decision-Making Meeting in Baltimore, MD in October 2002. Joint work also with Dennis Fryback, Pat Remington, and Amy Trentham-Dietz of the UW Medical School.
- (*) *A Cost-Effectiveness Analysis of Implantable Cardioverter Defibrillators (ICD) Demonstrating a Bayesian Parametric Random-Shock Cost Model.* Presentation by Grace Flood (post-doc student, UW Medical School) at the Society of Medical Decision-Making Meeting in Baltimore, MD in October 2002. Joint work with Dennis Fryback (UW Medical School) and Bernie O'Brien and Ana Johnson-Masotti (McMaster University). *Introduction to Bayesian Data Analysis for*

Medical Decision Making. Short course presented jointly by Dennis Fryback, Marjorie Rosenberg and Natasha Stout at the Society of Medical Decision-Making Meeting in Baltimore, MD in October 2002.

- (*) *Bayesian Methods in Cost-Effectiveness Analysis*. **Invited** presentation of joint work with Dennis Fryback and Grace Flood (UW Medical School) and Bernie O'Brien and Ana Johnson-Masotti (McMaster University) at the American Statistics Association annual meeting in NYC, NY in August 2002. (*) *Respecting the Lifecycle: Rational Workforce Planning for a Section of General Internal Medicine*. Poster presentation of joint work with Mark Linzer, Julia McMurray, and Jeff Glassroth (all UW Medical School) at the Society of General Internal Medicine meeting in Atlanta, GA in May 2002.
- (*) *Worklife, Satisfaction, and Gender Climate in a Section of General Internal Medicine*. Poster presentation of joint work with Mark Linzer, Sharon Foster, and Cindy Gilles (all UW Medical School) at the Society of General Internal Medicine meeting in Atlanta, GA in May 2002.
- *Bayesian Methods in Cost-Effectiveness Analysis*. Presentation of joint work with Dennis Fryback and Grace Flood (UW Medical School) and Bernie O'Brien and Ana Johnson-Masotti (McMaster University) at the University of Illinois statistics seminar, April 2002.

REVIEWER FOR JOURNALS:

- Annals of Applied Statistics
- Circulation
- Insurance: Mathematics and Economics
- Journal of Actuarial Practice
- Journal of the American Medical Association
- Journal of Health Economics
- Journal of Health Services and Outcomes Research Methodology
- Journal of Risk and Insurance
- Medical Decision Making
- North American Actuarial Journal
- Risk Analysis
- Statistical Methods for Medical Research

PROFESSIONAL ACTIVITIES:

- Chair of Society of Actuaries Health Care Cost Trends Advisory Group. December 2018 – present.
- Member of Society of Actuaries Project Oversight Group for "How Does Where You Live Impact Your Health". 2021.
- Member of Society of Actuaries Project Oversight Group for "State of the ACA Markets". September 2019 – March 2020.
- Member of Concerned Actuaries Advisory Group. November 2018.
- Vice Chair of Society of Actuaries Health Research Committee. September 2017 – December 2018.
- Elected member to Society of Actuaries Health Section Council. Three-year term from October 2016 – October 2019.
- Member of Society of Actuaries Predictive Analytics Curriculum Development Group, September 2016 – December 2017.
- Member of Society of Actuaries Public Health Initiative Sub-Group September 2016 – June 2018.
- Member of Society of Actuaries Professional Development Group and Predictive Analytics Advisory Group from October 2015 – December 2016.
- Member of Society of Actuaries Course C Curriculum Committee 2014 - 2016.
- Member of the Education and Research Section Council of the Society of Actuaries in 2007 to 2010. Chair of Section Council during last year.
- Member of the Committee on Knowledge Extension and Research of the Society of Actuaries from 2004 to the Present.
- Member of Society of Actuaries Health Research Team 2005 to 2006.
- Member of the Health Practice Advancement Committee of the Society of Actuaries 1998 to 2005.
- Member of the Health Care System in Crisis Task Force since 2003 to 2006.
- Member of the Troubled Health Care System Committee until disbanded in 2003.
- Member of the Joint AAA/SOA (American Academy of Actuaries and Society of Actuaries) External Relations Communications Committee 2001 - 2006.
- Member on the Editorial Board of the **Future Actuary**, a publication of the Society of Actuaries targeted to college students and starting actuaries since 1997 to 2000.
- Elected to the Education and Research Section Council of the Society of Actuaries, 1995-1998. Vice-President of Communications and editor of the section newsletter.

- Instructor for Society of Actuaries Applied Statistics Seminar (SOA Course 121), 1994 and 1995. In 1996, I assisted in revising the course content.
- Member of the Risk Theory Exam Committee (SOA Course 151), May 1989 through November 1990 for the Society of Actuaries.

PROFESSIONAL AFFILIATIONS:

- Fellow, Society of Actuaries
- Member of American Statistical Association