

ANGELA MCGRATH

Cirque Analytics
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Angela McGrath is Principal Consultant and Director of Automotive Research at Cirque Analytics, an economic, statistical, and financial consulting company headquartered in Jackson Hole, WY. During her 26 years working in the consulting industry, she has developed extensive experience in formulating, conducting, and directing statistical and other quantitative analyses in a consulting environment. She earned her B.S. in Statistics from the University of California at Riverside, an M.A. in Applied Statistics from the University of California at Santa Barbara, and an M.B.A. from the University of Wyoming. She has applied statistical and other quantitative methods to the collection and analysis of data to address numerous real-world problems in business, regulatory, and litigation settings.

Ms. McGrath has served as an expert witness in litigation involving field performance analyses for automobile manufacturers and has worked as a consulting expert in a broad range of high-stakes consulting projects. She has expertise in engagement management, problem identification and definition, data collection, statistical and mathematical modeling, auditing the quality, reliability, and validity of data and data analyses, preparing reports, preparing testimony outlines, and managing client relationships. She is a member of the American Statistical Association.

EDUCATION

M.B.A. University of Wyoming
M.A. Applied Statistics; University of California, Santa Barbara
B.S. Statistics; University of California, Riverside

PROFESSIONAL EXPERIENCE

2023 – Cirque Analytics, Principal Consultant and Director of Automotive Research

1997 – 2023 William E. Wecker Associates, Inc.
2021 – 2023 President and Principal Consultant
2003 – 2020 Principal Consultant, Head of the Automotive Safety Research Group
2000 – 2003 Senior Consultant, Head of the Automotive Safety Research Group
1997 – 2000 Senior Consultant

1999 – 2004 University of Phoenix, Northern California Campus, Lecturer in Statistics
1995 – 1997 Wells Fargo Bank, San Francisco, Portfolio Analyst Retail Risk Management
1994 – 1994 University of Santa Barbara, Lecturer in Statistics
1992 – 1993 San Bernardino County Medical Center, Division of Research, Research Analysis

PROFESSIONAL EXPERIENCE: SELECT STATISTICAL CONSULTINGTransportation Industry

- Testifying expert for Ford Motor Company assessing rollover propensity.
- Testifying expert for General Motors analyzing the field performance of fuel systems.
- Testifying expert for Fiat Chrysler Automobiles analyzing NHTSA data.
- Testifying expert for Toyota Motor Sales, USA performing safety and risk analysis.
- Consulting expert for major automobile manufacturers related to the field performance of airbags, door latches, fuel systems, rollover propensity, seat designs, tread separations, unintended acceleration, and other vehicle design components.
- Consulting expert for a manufacturer of automotive safety devices involving the largest and most complex safety recall in U.S. history. Work involved assessing the field performance of the safety devices among a wide range of vehicle models; and determining whether or not certain models and/or environmental factors were associated with increased risks.
- Consulting expert in an engagement involving a major highway products manufacturing company. Work involved evaluating the crash performance of a highway product in terms of vehicle occupant risk.
- Consulting expert for an automobile manufacturer to assess from a statistical perspective whether or not potential damages were measured properly and could be generalized to all members of the class.
- Consulting expert involving a major aircraft manufacturing company. Work involved determining on a statistically reliable basis whether or not certain health related diseases had a common environmental cause. Performing statistical analysis of cancer clusters.
- Consulting expert to evaluate fuel-economy enhancing modifications to commercial aircraft.
- Extensive experience analyzing NHTSA's data, including FARS, NASS, SCI, CRSS, CISS, NTS, EWR, VOQ, DI, and TSB databases.

Financial Industry

- Consulting expert for a payment card company. Work involved the analysis of payment transaction data with more than 230 billion records to assist in settlements and mediation.
- Consulting expert for in litigation with credit card cobrand partner. Work included assessing the validity and reliability of profit models based on portfolio performance metrics.
- Consulting expert in an engagement related to the largest fraud and Ponzi scheme in history. Performed analysis of securities data and assessing damages.
- Portfolio analysis for Wells Fargo Bank in the retail risk management department. Evaluated the performance of loan portfolios and built loan loss reserve models.

Other

- Consulting expert in an engagement for a pharmaceutical company to evaluate the relative risks of an adverse event.
- Consulting expert on direct health effects and indirect stigma effects on property values.
- Consulting expert on sample was valid and properly extrapolated to the entire population in a matter related to the prevalence of an alleged construction defect.