

THOMAS DUBININ
Manager

Cirque Analytics
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Dr. Dubinin received a Bachelor of Arts degree in mathematics from St. John's University, a Master of arts degree in mathematics from the University of Missouri, and a Ph.D. from Iowa State University. Prior to joining Cirque Analytics, he was a statistical analyst for Wecker Associates with twenty-one years of experience. He is a thirty-four year veteran of the United States Army Reserve having served both enlisted and commissioned in logistics, combat engineering, and information operations both stateside and in Iraq and Afghanistan supporting Operations Iraqi Freedom and Enduring Freedom.

He has worked as a consultant on many litigation and business engagements including consumer product safety and performance; environmental damage; class actions alleging disparate impact in insurance, lending and wages; and patent and intellectual property matters involving pharmaceutical inventions.

His area of expertise is the statistical and mathematical analysis of data. This expertise includes damage analysis; survey design, analysis and administration; U.S. and international credit card market analysis; meta-analysis; profitability and forecasting; automobile safety and valuation; regression analysis; survival analysis; and large-data analysis.

EDUCATION

Ph.D. Iowa State University, Ames. Statistics, 2000
M.S. Iowa State University, Ames. Statistics, 1994
M.A. University of Missouri, Columbia. Mathematics, 1993
B.A. St. John's University. Mathematics, 1989

PROFESSIONAL EXPERIENCE

2021-Present Cirque Analytics, Manager
2000-2021 William E. Wecker Associates, Inc., Project Manager
1985-2019 United States Army Reserve, Colonel
1998-2000 GuideOne Insurance, Systems Analyst

SELECTED CONSULTING AND ARMY RESERVE EXPERIENCE

Consulting Expertise

- Consulted on litigation matters involving tobacco, automotive safety, pharmaceuticals, patent infringements, insurance allocation, and conjoint analysis.
- Analyzed large, complicated data sets, such as cost accounting databases for various hospitals, the National Health and Nutrition Survey (NHANES), the Current Population Survey (CPS) and Tobacco Use Supplement (TUS), FARS and NHTSA automotive databases, the National Medical Expenditure Survey (NMES).
- Employed standard statistical concepts: linear models, regression (linear, probit, and logistic), parametric and non-parametric modeling, hypothesis testing, power calculation, experimental designs, Bayesian probability and inference, and survey sampling.
- Intensive SAS programming: SAS/BASE, SAS Macro Language, SAS/STAT, SAS/ETS, and SAS/GRAPH. Utilization of SAS/BASE for creation, maintenance, and preparation of (usually large) data sets. Utilization of SAS/STAT and SAS/ETS for statistical analysis of data. Utilization of SAS/GRAPH for preparation of exhibits and graphics to be used in depositions, courtroom testimony, and presentations to lawyers.
- Technical writing and presentations for technical and non-technical audiences: e.g., lawyers, other experts, juries, and judges.
- Development of code and mathematics for new applications of mathematics and statistics.

Army Reserve Experience

- Served in a variety of roles from enlisted field medic to battalion commander performing duties ranging from hospital orderly to information operations analyst with twenty years of experience.
- Combat engineer operations officer coordinating traffic movement, route clearance teams, bridging operations and vertical construction efforts in Baghdad, Iraq (2007-2008).
- Information operations officer for the International Security Assistance Force, Kabul, Afghanistan (2013-2014). Analyzed the effects of information activities in Afghanistan along with studying the perceptions of Afghans toward U.S. and NATO sponsored infrastructure projects, security, the Government of the Islamic Republic of Afghanistan, elections fraud, relations with Pakistan and prospects for a stable future for Afghanistan. Coordinated with the Department of State, NATO country representatives, and civilian contractors to undertake and have access to data collection efforts.

SKILLS

Statistical analysis of large data sets, SAS programming (Base SAS, SAS/GRAPH, SAS/STAT, SAS/IML, SAS/ETS), Stata, Microsoft Excel/VBA, script writing in Perl, Stata Programming, technical writing, public speaking at both the technical and non-technical level, preparation of graphics/exhibits for presentation, understanding and implementing the algorithms,

code, and mathematics of statistical research, expert reports, and expert testimony long-term collaborative research, often in a litigation setting. I currently hold a top-secret security clearance (TS-SCI).