

Timothy Grant Hall

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Professional Title

Senior Research Statistician

Education

Master of Science, Applied Statistics, Purdue University, 1986
Master of Science, Mathematics, Purdue University, 1982
Bachelor of Arts, Mathematics, University of Oregon, 1980

Employment

(1994-Present)

United States Department of Transportation
John A. Volpe National Transportation Systems Center
Aviation Safety / Air Surveillance Systems / Air Navigation and Surveillance Divisions
Cambridge, MA, USA, 02142-1001

(1984-1994)

GTE Laboratories, Waltham, MA: Statistical Analyst
Vitronics, Inc., US Army Laboratory Command, Fort Monmouth, Eatontown, NJ:
Quality Assurance Statistical Analyst
Bellcore, Red Bank, NJ: Member of the Technical Staff, Statistical Analyst

Teaching Experience

Purdue University, Graduate Student Instructor in Calculus, Trigonometry, Algebra
Emerson College, Adjunct Professor in Calculus and Computer Programming
University of Massachusetts Lowell, Adult Evening Course
Mendon-Upton Regional High School, SAT Preparation

Select Technical Memoranda and Publications

270 PQIC Technical Memoranda (as of December 2024) registered with US Copyright Office
Evaluation Error Requirements For Generating Random Variates Using Dominated Rejection Algorithms
Proceedings of the Joint Statistical Meeting (Virtual), Philadelphia, PA, August 2020
Exact Solutions To Linear Systems Using Rational Arithmetic And Conversions,
Proceedings of the Joint Statistical Meeting, Vancouver, BC, September 2018
Statistical Calculations Through Rational Arithmetic And Conversions,
Proceedings of the Joint Statistical Meeting, Baltimore, MD, September 2017
Deleting And Annexing Data From And To The Least-Squares Linear Regression Matrix Inverse,
Proceedings of the Joint Statistical Meeting, Seattle, WA, September 2015
Automated Univariate Analysis Of Variance Methods For Nested Mixed Effects Linear Models,
Proceedings of the Joint Statistical Meeting, Montreal, Quebec, September 2013
Dominated Rejection Algorithms For Generating Random Variates,
Wiley Interscience WIRES Focus Article, May 2012
Chromatic Methods For Creating A Secure Identification Procurement,
2010 Joint Mathematical Meeting, San Francisco, CA, January 2010
Colorado WAM Separations Standards Targets of Opportunity and Flight Test Analysis,
28th Digital Avionics Systems Conference, Orlando, FL, October, 2009
Analysis of Localizer and Glide Slope Flight Technical Error,
27th Digital Avionics Systems Conference, St. Paul, MN, October 2008
An Annual Per Unit Cost Estimate Update Algorithm,
SIAM Annual Meeting, Philadelphia, Pennsylvania, 1993
Cost of Poor Repair Process Quality,
Proceedings of the American Society for Quality Control's Quality Congress, Atlanta, Georgia, 1989
Warranty Analysis Program, Reliability Review, 1987