



JP Research, Inc.

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Justin E. Stocks-Smith

Senior Data Analyst

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Mr. Justin Stocks-Smith is a senior data analyst experienced in failure analysis, experimental design, survey methodology, economic valuation, and generalized linear models. He holds an MA in Applied Statistics and a BS in Mathematical Sciences. His special interests include geospatial analytics, linear optimization, discrete distributions, and algorithmic efficiency.

For JP Research, Mr. Stocks-Smith applies advanced statistical techniques such as Weibull regression and principal components analysis to automotive safety research and consumer product safety litigation cases. Recent automotive projects have involved developing research models to evaluate the effectiveness of increased roof strength-to-weight ratio and of rollover-activated side curtain airbags. Mr. Stocks-Smith also has substantial experience performing claim/injury rate analyses and evaluating the representativeness of random and non-random samples in a variety of fields for diverse applications. He has performed claim/failure rate analyses for products and parts ranging from air conditioners, water heaters, and toilet connectors to ignition switches and timing chains. In addition, he has used mark and recapture methods on personal transporter injury claims data, performed nonparametric tests on citrus fungicide experimental data, and developed time series forecasts based on footwear sales data.

Before joining JP Research, Mr. Stocks-Smith performed actuarial pricing analyses in the property and casualty field. He completed actuarial exams in probability, financial mathematics, and models for financial economics.

Education, Skills and Professional Honors

University of California, Santa Barbara Santa Barbara, California	M.A., Applied Statistics	2012
Clemson University, Clemson, South Carolina	B.S., Mathematical Sciences (Statistics) (Minor: Geography)	2011

Successfully completed Casualty Actuary Society (CAS) exams:

1. Probability, 2. Financial Mathematics, and 3/F. Models for Financial Economics	2013
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Honors/Awards

Rand-McNally Prize in Geography	2010
Phi Kappa Phi Honor Society Member	2009
EH Gregory Trust Scholarship Recipient	2007-2011

Professional Experience

JP Research, Inc., Mountain View, California

Senior Data Analyst, 2014-Present

Data Analyst, 2014

Responsible for performing computational analyses of field data through use of advanced statistical methods such as ordered probit regression and factor analysis. Applies statistical analysis techniques in support of technical projects for the research and programming groups. In particular, has developed research models evaluating the effectiveness of increased roof strength-to-weight ratio and rollover-activated side curtain airbags, and has performed claim/failure rate analyses for air conditioners, ignition switches, carbon arrows, toilet connectors, timing chains, water heaters, and other products and parts.

Esurance, San Francisco, California

Actuarial Analyst, 2013

Ran clustering analyses and Monte Carlo simulations using Excel/VBA. Conducted research on price elasticity using R.

University of California, Santa Barbara, Santa Barbara, California

Teacher's Assistant, 2011-2012

Taught Statistics for Life Sciences to undergraduate students.

Clemson University Student-Athlete Enrichment Program, Clemson, South Carolina

Mathematics Tutor, 2009-2011

Taught math and statistics courses to undergraduate student-athletes.

National Oceanic and Atmospheric Administration, Boulder, Colorado

Intern, 2009

Experimented with the discrete Fourier transform and its applications in C++. Discussed NAM and GFS model forecasts at daily weather briefings.

GIS Solutions, Inc., Springfield, Illinois

Project Assistant, 2006-2008

Used ArcGIS and NAVTEQ software to establish unique school identifiers for a state-funded project.
