

Professional Experience

Intercept Analytics Group, LLC

- *Founding Partner* **2009 - Present**
 - Co-founded partnership that provides, statistical analysis data mining, and strategic advisory solutions to a wide range of industries and organizations
 - Led strategic, business development, marketing, technological, and operational initiatives

Veratect Corporation

- *Director of Computational Analytics* **2009**
 - Led all operations research, advanced analytics, methodological, and new product initiatives
 - Supported executive management, IT, operations, and client base with quantitative methods to include creation and implementation of new risk metrics, event-tracking algorithms, and management and efficiency standards
- *Product Manager* **2008 - 2009**
 - Led all product management, user experience, knowledge management, data collection, market research, and advanced analytics teams
 - Defined strategy, roadmap, and market requirements for current and future products by conducting market research supported by on-going visits to customers and prospects
 - Developed unique risk quantification algorithms, risk metrics, analytical methods, and specialized products for internal and external end-users
- *Data Integration Engineer* **2008**
 - As a founding member of the company, developed strategic plans for collection and sourcing, knowledge management, and product development
 - Contributed to major purchasing, licensing, and technical partnership decisions
 - Developed internal knowledge management portal for networking and collaboration
 - Systems integration lead for all data collection, analysis, and information delivery platforms

Project Argus, Division of Integrated Biodefense, ISIS Center, Georgetown University Medical Center

- *Technical Integration Analyst, Strategic Analytics Unit* **2007 - 2008**
 - Created and distributed novel products for federal government sponsors and user community
 - Project lead and developer for internal knowledge management portal, collaborative geospatial platforms, and various visualization, link analysis, and ontology management applications
 - Administered advanced modeling and text analysis system for efficient information retrieval and relevancy-ranking of multilingual open-source news media
 - Provided technical training and documentation for internal teams and various user groups
- *Programmer / Analyst* **2006 - 2007**
 - Developed and maintained unique Perl scripts for near real-time ingestion of multilingual open-source news media
 - Provided strategic analysis and monitoring of collection and data management processes
 - Designed and implemented system-wide metadata structuring protocols
 - Trained and managed technical sourcing and collection teams

Educational Background

Georgetown University (Washington, DC): Master of Science in Mathematics and Statistics

2008

- Cumulative GPA: 3.7
- Courses: Multivariable Calculus, Mathematical Statistics, Probability Theory, Data Mining, Numerical Methods of Analysis, Signals Processing, Deterministic Models, Categorical Data Analysis, Technology and Intelligence, Statistical Consulting Practicum, Combinatorics and Combinatorial Optimization

Wake Forest University (Winston-Salem, NC): Bachelor of Arts in Physics, Minor in Mathematics

2006

- Cumulative GPA: 3.0, Major GPA: 3.6

Avon Old Farms School (Avon, CT)

2002

- Cum Laude Society, Order of Old Farms (Highest Graduating Honor)

Activities and Memberships

- AnalyticBridge
- National Geographic Society
- The Reading Connection Volunteer Read-Aloud Program
- TED (Technology, Entertainment, Design)
- World Vision International
- American Statistical Association
- Institute of Mathematical Statistics
- Washington Statistical Society
- Sigma Pi Sigma / Physics Honors Society
- Sigma Chi Fraternity, Delta Nu Charter

Technical Skills and Language Proficiency

- Domains (Technical): Algorithm/Metric Development, Data Mining, Data/Geospatial Visualization, Decision Support Systems, Link Analysis, Knowledge/Content Management, Social Media/Networking, Statistical Analysis, Taxonomy/Ontology Management, Text Analytics, User Experience and Interface Design
- Languages (Technical): HTML, KML, Maple, Matlab, Perl, R, RSS, XML
- Domains (Non-Technical): Biological Disease, Civil Unrest
- Languages (Non-Technical): English (Fluent), Spanish (Intermediate)