



John Hilbert

Decision Visualization Scientist

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Highly organized, self-motivated, and welcoming of challenges

Proficient at problem-solving, showing business foresight, and generating innovative ideas in a variety of environments

Strongly values documentation, follow-up, and follow-through whether working independently or as a member of a project team

EXPERIENCE

- 2017-2016 **Manager of Advanced Analytics & Modeling at Highmark Health**
Built a robust enterprise level data science team in the heart of a division wide restructuring ■ Fostered use of novel data, technologies, and methods in the company for analytical use ■ Built sound analytical practices dwelling on organization, quality, and documentation ■ Notable projects include:
 - Developed methods of uncovering optimal health service locations (R)
 - Strategically created hierarchical geographic market segments for use throughout the enterprise (R)
- 2016-2015 **Lead Data Scientist at Innovu, LLC.**
Promote innovative and robust analytics in the healthcare and employee benefit community ■ Develop and maintain full business intelligence stack (from raw data, groomed analytic layer, to advanced consumer metrics) for internal and external customers (AWS RedShift, Python) ■ Ingest and unite various data sources in collaboration with data engineering team ■ Contribute to long term company analytic strategies in addition to sustaining an agile analytic development team utilizing novel algorithms and open source technology ■ Serve as medical insurance and analytic domain expert ■ Created and operationalized 'Golden' member matching algorithm (Python)
- 2015 – 2010 **Data Scientist at UPMC Health Plan, Division of Health Economics**
Uncover insight to assist product owner and executives in making informed yet actionable decisions ■ Further the benefit and proper use of analytics throughout the organization ■ Collector and custodian of various internal and external data ■ Departmental liaison and advisor for teams and departments on software and analytics ■ Notable projects include:
 - Provider profiling and social network modeling, analysis, and visualization (GEPHI / R)
 - Promotion and design of (d3.js / Tableau) dashboards and data visualization
 - Financial time series projections for corporate budget for each business line
 - Error detection / correction of provider records via network analysis models (R, SQL)
- 2010 – 2008 **Lead Quality Analyst at Thomson Reuters (formerly Aegisoft, LLC)**
Black-box testing algorithmic trading platform ■ Management of off-site team ■ Creation of standard operating procedures and training materials ■ Serve as financial market SME
- 2008 – 2007 **Quantitative Analyst at Transmarket Group, LLC**
Participated in research projects pertaining but not restricted to high-frequency equity research involving time series analysis (MATLAB) ■ Created and supported applications such as daily models which enabled traders to analyze their portfolio risk in relation to market behavior (C#) ■ Analyzed and optimized the trading group's market simulation using a custom multi-threaded genetic algorithm (C#)
- 2007 – 2004 **Adjunct Professor at University of Pittsburgh**
Research Assistant to Dr. Eric Swanson at University of Pittsburgh

SKILLS

Classical & Bayesian Statistics	Financial Markets	R	Matlab
Data Mining Algorithms	Healthcare Data	Python	SAS
Time Series Analysis	Web Design & Dev	DB ETL &	Tableau
Data Visualization	Agile / SCRUM	Modeling	AWS

EDUCATION

- 2010 **MBA Essentials Certificate at University of Pittsburgh**
- 2008 **Masters of Science (ABD) in Physics at University of Pittsburgh**
- 2003 **Bachelors of Science in Physics at Kent State University**
Bachelors of Science in Mathematics at Kent State University

HONORS

Pi Mu Epsilon Senior **Mathematics Award** ■ Center of Nuclear **Physics Award** ■ Physics **Leadership Award** for creating and presiding over Kent State's Society of Physics Students ■ Boy Scouts of America **Eagle Scout**