Shane Catts

507 W 8th Street, Birdsboro, PA 19508 | 610-291-9990 | [Shane.Catts13@gmail.com](mailto:Shane.Catts13@gmail.com)

Analytic professional with proven experience turning data into actionable insights. Track record of presenting technical topics to C-Suite stakeholders promoting data driven decision making.

**Skills & Abilities**

## Analytics

* R, SQL, Tableau, Alteryx, Power BI, Qlickview, AWS S3/EMR, VBA, Excel, Power Query, CPLEX, Arena, JMP by SAS, KNIME, @Risk, Oracle Crystal Ball, Rapid Miner

**Experience**

## Senior Analyst, Trading & Optimization | UGI Energy Services | November 2018 - Present

* Produce real-time analytic dashboards, and reports utilized by executive management
* Research and price weather derivatives utilizing closed-form solutions, and numerical methods in R
* Complete quantitative analysis on proposed trading strategies to maximize returns, and mitigate risk
* Developed proprietary trading program that automated trading across commodity market hubs
* Execute optimization modeling to enhance the management of trading portfolio
* Engineer new pricing tools for customer portfolio to maximize margin, and promote efficiency

## Manager, Supply & Trading | PESCO Energy | January 2017 - October 2018

* Performed portfolio simulations, and historical scenario analysis to identify and quantify risk
* Completed complex budgeting and financial reporting for trading portfolio
* Presented portfolio analytics to Risk Management Committee and recommended strategies to mitigate risk
* Accomplished in depth market research, and presented strategic findings to C-Suite stakeholders
* Collaborated with Corporate Strategic Development in valuation modeling for potential acquisition targets
* Modeled energy load and produced robust forecast that reduced energy cost

## Analyst II, Energy Supply & Planning | UGI Utilities Inc. | November 2015 - December 2016

* Forecasted customer demand by constructing, and validating predictive models to assure accuracy
* Managed price optimization model to set optimal utility rates for over 500,000 customers
* Instituted term procurement plans for over 250 MM in annual energy spend

## Analyst I, Energy Supply & Planning | UGI Utilities Inc. | March 2014 - November 2015

* Procured physical energy commodities in the spot and term market to fulfill utility demand
* Achieved incremental margin by trading energy commodities in the spot markets
* Completed data request and reporting for annual regulatory filings

**Education**

## M.S. Analytics | 2020 | Villanova University | 3.9 / 4.0

Course Work: Data Mining, Enterprise Data Management, Business Intelligence, Multivariate Data Analysis, Structured Data Modeling, Optimization, Simulation, Programming in R, Text and Web Mining, Advanced Business Applications, Marketing Analytics, Machine Learning, Sports Analytics, Project Management

Practicum: Partner with a top US retailer to perform an enterprise wide analytics project.

## B.A. Political Science | 2013 | Albright College

* Academic All-Conference, National Football Foundation Hampshire Honor Society