JOHN H. SCHWENCK

jschwenck12@gmail.com
973.610.8220

EDUCATION

Texas A&M University
College Station, TX

The College of Science | Master of Science; **Statistics** *– Thesis Option*   *Class of 2021*

The Pennsylvania State University
University Park, PA

The College of Liberal Arts | Bachelor of Science; **Economics** *| Focus: Quantitative Analysis*   *Class of 2016*

Smeal College of Business | Bachelor of Science; **Supply Chain & Information Systems**

Minor | **Statistics**

*** Teaching Assistant (TA): *ECON 306 Applied Econometric Modeling*
*** Additional post-graduate coursework: *Multivariable Calculus, Differential Equations, Linear Algebra, Real Analysis*
*** Former member of the PSU Rugby Team (Position: 8-Man)

WORK EXPERIENCE

South Jersey Industries
Atlantic City, NJ

Senior Analyst | Strategic Analytics & Corporate Development   *June 2016 – April 2019*

- Created a data visualization dashboard in Power BI that integrated company-wide performance metrics utilizing SharePoint, R, Python, and ERP systems to drive accountability and transparency in data reporting
- Developed a machine learning model in R for the Damage Prevention team using geospatial data to generate pipeline failure probabilities at various locations for gas leak prevention and other potentially fatal situations
- Utilized VBA to streamline the budgeting process for SJI's former Solar subsidiary that automated manual entry of over 10,000 historical outage reports for impairment and stress testing purposes
- Optimized the Off-System Sales and Trading teams' asset portfolios by developing a logistic regression model using R and SQL to predict the likelihood of the natural gas trade volumes receiving a "supply cut" during the pipeline nomination process and back-tested the model using Monte Carlo and Bootstrapping methods

RESEARCH EXPERIENCE

Riding for Research – A Cycling Trip Across North America
United States & Canada

Independent Research   *April 2019 – Present*

- Pedaled a 1991 Cannondale M1000 bicycle 6,000 miles from New York City, NY to Seward, Alaska to collect granular fitness, dietary, and cardiac related data through various health tracking sensors for an initial pilot study
- Study divided into 3 phases, consisting of exercise, diet control, and stress management, to assess trends in cardiac performance as measured through blood pressure, heart rate variability, and other health indicators
- Plan to develop a mobile application that will allow for collection of data from a representative sample ($n > 1$)

Penn State Energy Marketing Association (P.S.E.M.A.)
University Park, PA

Founder | Director of Macroeconomic Research   *July 2015 – May 2016*

- Established the organization to bridge the gap between technical and non-technical backgrounds who shared a mutual interest for the energy industry and a desire to further their knowledge through cross-disciplinary research
- Developed a logistic regression model in R aimed at forecasting commodity prices based on world events and production reports that drive fundamental factors of oil and gas
- Directed market outlook newsletters for each of the four segments (Oil, Gas, Weather, and Economy) and prepared educational presentations to teach both physical and economic/ financial aspects of the energy supply chain

RELEVANT EXPERIENCE

Penn State Investment Association (P.S.I.A.)
University Park, PA

Analyst | Energy Sector   *August 2012 – May 2016*

- Analyzed industry and company specific research reports to assess the various trends, opportunities and risks within the Energy sector to assist senior fund managers with their investment decisions
- Utilized discounted cash flow models and comparable analysis to evaluate equities in the Energy space to be pitched and voted upon for approval by the executive board

SKILLS & INTERESTS

Programming: R, Python, SQL, VBA, Stata
Software: Excel, Power BI, Bloomberg, SharePoint, Photoshop, Oracle (Hyperion)
Interests: Cycling, skiing, reading, chess, history, saxophone, poker, NY Giants