Aron Patrick

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Summary: Statistician with eight years of public sector experience in data analytics, quantitative modeling, and project management. Innovative, motivated, and passionate about econometrics, simplifying complex data, and efficient governance.

Experience

Commonwealth of Kentucky – Energy and Environment Cabinet **Nov 2009 – Present**

Assistant Director - Data, Modeling, and Carbon Management **Jan 2013 – Present**

Senior Analyst - Data and Quantitative Modeling **Nov 2009 – Jan 2013**

- Manage statistical databases of energy, environmental, and related socioeconomic factors.
- Forecast energy production (coal, oil, & gas), employment, consumption, emissions, pricing, exports, and tax revenue and provide state and local leadership with advanced notice of changes in employment and tax revenue.
- Respond to leadership, general public, and media inquiries on energy production, consumption, and employment.
- Advise cabinet secretaries, Governor's Office, Attorney General's Office, legislators, and other senior leadership.
- Manage staff and graduate student research assistants, interns, and programming statisticians.
- Generated revenue for Kentucky from consulting with dozens of state's governments and sales of automated data products.
- Administrator for government websites, database servers, and social media accounts.

United States Government **Apr 2008 – Oct 2009**

Intelligence Analyst

- Worked with a team of mathematicians and statisticians to develop classified forecasts and tactical recommendations for government leadership using a variety of data mining, inferential statistical, and trend analysis techniques to protect United States Government interests, allies, and personnel.
- Conducted large-scale data mining operations of raw and finished intelligence data and reporting.
- Trained in a variety of multilevel modeling techniques to detect underlying causation including; multiple regression of panel data with fixed and random effects, logistic regression, segmented regression, geospatial analysis, and hierarchical clustering.
- Granted various United States Government security clearances.

Education

University of Kentucky, Department of Statistics **Aug 2010 – Dec 2011**

Graduate Certificate in Applied Statistics & Data Analysis

Patterson School of Diplomacy and International Commerce **Aug 2005 – Dec 2007**

Master of Arts in Diplomacy and International Commerce *View Diploma*

- Awarded *United States Government* Graduate Fellowship, Vince Davis Scholarship, Patterson School Fellowship
- GPA 3.8 with High Honors
- Published Master's Thesis: http://bit.ly/1OwGFRp

University of Kentucky, College of Arts and Sciences **Aug 1999 – May 2004**

Bachelor of Arts in Political Science *View Diploma*

Université de Bourgogne **Aug 2001 – June 2002**

- Exchange Student and Foreign Language Teaching Assistant

Technical Skills

SAS, JMP, R, Stata, Visual Basic, Tableau, ArcGIS, QGIS, SQL Queries, HTML, Sharepoint, Statistical Analysis, Microsoft Office

Foreign Languages

English (Native), French (Native Proficiency), Cantonese and Mandarin Chinese (Professional Proficiency), Simultaneous Translation

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Publications

The Vulnerability of the United States Economy to Electricity Price Increases, 2015

Whitepaper: http://1.usa.gov/1aVhOWu

Interactive Excel Model: http://1.usa.gov/1G31BuN

Kentucky Coal Facts and Kentucky Quarterly Coal Report, 2012-2016

http://energy.ky.gov/Pages/CoalFacts.aspx

Kentucky Energy Profile, 2010-2015

http://energy.ky.gov/Pages/Profile.aspx

Economic Challenges Facing Kentucky's Electricity Generation Under Greenhouse Gas Constraints, 2013

http://bit.ly/1DhHoMU

State Energy Data and Profiles - Sold to 13 State Governments Using Fully Automated Database, Graphics, and Text Platform

Examples: **Iowa**: http://bit.ly/1IoBxh5 **Maine**: http://1.usa.gov/1N9lvqu **Missouri**: http://on.mo.gov/1ONLwOh

Southern States Energy Profiles, 2012, 2014

http://bit.ly/1HGuJvm

The Vulnerability of Kentucky's Manufacturing Economy to Electricity Price Increases, 2012

http://1.usa.gov/1HGuHDN

The Reinstatement of the Middle Kingdom, 2007 (Master's Thesis)

http://bit.ly/1OwGFRp

Presentations

Vulnerability of the United States Economy to Electricity Price Increases, *Kentucky Economic Association* **10/23/2015**

Presentation: http://1.usa.gov/1Nqp0Kz

Kentucky Energy Outlook, Kentucky Petroleum Marketers Association **9/14/2015**

Presentation: http://1.usa.gov/1QbzY58

Kentucky Coal - Past, Present, and Future, *Northern Kentucky University* **3/27/2014**

Presentation: http://1.usa.gov/1XH3W3z

Video of Presentation: https://youtu.be/meRZcw3ZHpE

Household Electricity Expenditures as a Percentage of Household Income, *Energy & Environment Cabinet* **9/15/2014**

Presentation: http://1.usa.gov/1rFQ1xh

Video of Presentation: https://youtu.be/mGl1DKJCaSA

Kentucky Coal Outlook, *Kentucky Department of Revenue, Office of State Budget Director, Department of Local Government* **4/11/2014**

Modeling an Energy Intensive Economy, *Duke University Nicholas Institute* **4/24/2013**

Presentation: http://1.usa.gov/1Ip5r4Q

Modeling Electricity Price Elasticities Using Heterogeneous Panel Data, *Energy & Environment Cabinet* **6/8/2012**

Presentation: http://1.usa.gov/1TYe0VO

Interactive Excel Model: http://1.usa.gov/1gOugKu

Kentucky Coal Outlook, *Kentucky Governor's Office , Governor's Executive Cabinet, Kentucky State Capitol* **12/7/2011**

Numerous Classified Presentations to United States Government Leadership on Classified Topics **2008 – 2009**