

Aron Patrick

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

Experience

Louisville Gas & Electric and Kentucky Utilities Jul 2016 – Present

Senior Analyst

Commonwealth of Kentucky – Energy and Environment Cabinet Nov 2009 – Jun 2016

Assistant Director - Data, Modeling, and Carbon Management Jan 2013 – Jun 2016

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

- Manage statistical databases of energy, environmental, and related socioeconomic factors.
- Forecast energy production (electricity, coal, oil, & gas), consumption, emissions, pricing, exports, employment, 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 conduct large-scale data mining operations 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.
 - 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.
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Education

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

Graduate Certificate in Applied Statistics & Data Analysis [View Diploma](#)

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
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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, 2016

<http://bit.ly/2bOrfYk>

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 Assoc. of Manufacturers 5/11/2016

Video of Presentation: <https://youtu.be/WyK6zvXv2Ss>

Presentation: <http://1.usa.gov/23sDw8G>

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

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

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

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

Video of Presentation: <https://youtu.be/mG11DKJCaSA>

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

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