

Zhimin Li, Associate Analyst
Veritas Economic Consulting, LLC
1851 Evans Road, Cary, NC 27513

PRACTICE AREAS

- Custom Modeling
- Econometric Modeling
- Statistical Estimation

EXPERTISE

- Statistical Analysis
- Statistical Programming

EDUCATION

Graduate study in progress, Yale University, New Haven, CT, Environmental Economics

B.S., Electrical Engineering, Shantou University, Guangdong, China

Semester at Sea Voyage, University of Virginia, February–May 2007
Itinerary: Bahamas, Puerto Rico, Brazil, South Africa, Mauritius, India, Malaysia, Vietnam, Hong Kong, Qingdao (China), Japan, Hawaii, and San Diego

Undergraduate Thesis: Photovoltaic (PV) System Maximum Power Point Tracking (MPPT) Based on Proteus Simulation Platform
Score: Excellent

RECENT PUBLICATION

- Bingham, M.F., and Z. Li. 2008. "Evaluating the Relationship between Residential Property Values and Groundwater Quality." Working Paper No. 2008-05. Cary, NC: Veritas Economic Consulting.

Mr. Li works on projects in electricity market simulation, unit commitment modeling, experimental design, conjoint analysis, electric car diffusion, and recreation demand modeling. As part of his efforts, Mr. Li has supported Veritas' custom modeling efforts, including the development of Veritas' Electric Vehicle Adoption Model and Electricity Policy Simulation Model (EPSM). The Electric Vehicle Adoption Model forecasts location-specific electric vehicle adoption rates given changes in technology, public infrastructure, consumer education, or gas spikes. The EPSM is a computerized simulation model that identifies baseline values for electricity generation assets and evaluates the impact of environmental regulations on regional United States electricity generation and delivery systems.

Mr. Li's efforts were instrumental in developing the technical aspects of each model. He is skilled in statistical estimation and econometric modeling, including discrete choice modeling (conditional logit, nested logit, and random parameters logit). He is fluent in several computer programs, including Stata, Analytica, Biogeme, and Matlab.

KEY PROJECTS (CLIENTS)

Assisting in the development of the National Benefit-Cost Framework of Electric Vehicles that evaluates the impacts of electric vehicle adoption increases on physical, economic, and environmental systems (Electric Power Research Institute)

Assisted in the development of the Electric Vehicle Adoption Model which uses survey and best available data to forecast location-specific electric vehicle adoption under a variety of scenarios (Veritas)

Assisted in the analysis of electric vehicle customer expectations survey (Southern Company, Tennessee Valley Authority and Electric Power Research Institute)

Preparing a national analysis of the economic and reliability impacts associated with a required closed-cycle cooling retrofit of existing once-through cooled systems (Electric Power Research Institute)

Assisted in the development of an economic model to assess unit-level compliance costs of proposed regulation on coal combustion products from coal-fired electric generation (Electric Power Research Institute)

Experience

Veritas Economic Consulting, LLC, Cary, NC

Associate Analyst, 2008 to present

Research Assistant, 2008

ACL English Center, Sydney, Australia

Marketing Assistant Intern, 2008

Baishi Plastics Factory, Guangdong, China

Translator and Interpreter

Schindler China Elevator Company, Shenzhen Branch, Guangdong, China

Maintenance and Sales Assistant Intern

Areas of Specialization

Electric Vehicles

- Currently supporting the development of a framework that provides the structure for developing a comprehensive benefit-cost analysis of strategies to promote the adoption of the electric vehicle by U.S. households.
- Supported in the development of a custom model that forecasts location-specific electric vehicle adoption under a variety of scenarios.
- Assisted in the analysis of customer expectations of electric vehicles throughout the country.

Custom Models

- Supported the design and development of the Electric Vehicle Adoption Model which forecasts location-specific electric vehicle adoption under a variety of scenarios.
- Supported the design and development of regional economic-engineering models of electricity production and distribution to evaluate the economic, pricing, and production impacts associated with environmental regulations (the Environmental Policy Simulation Model).
- Designed and developed a state-of-the-art electricity reliability model that evaluates the impact of new technologies on electricity production, efficiency, and grid reliability.
- Designed and developed an economic model to account for and integrate the economic and ecological benefits associated with potential urban river restoration alternatives.
- Designed and developed the Panama Canal Route Competitive Analysis Prototype that analyzes the impacts of Panama Canal pricing schemes, and additional variables, on the relative competitiveness of the Panama Canal route.
- Developed numerous economic models to support benefit-cost analysis of best technology available (BTA) for reducing adverse environmental impacts (AEI) at individual generating stations across the country.
- Designed and analyzed complex models that explain and predict recreator behavior and visitation frequency for exposure assessments.

Regulatory Compliance

- Helped develop simulation model for electric car diffusion
- Supported custom modeling efforts, including the development of Veritas' Environmental Policy Simulation Model (EPSM) and Alternative Dam-Restoration Options Model (ADROM), developing the technical aspects of each model
- Helped develop computerized simulation model that identifies baseline values for electricity generation assets and evaluates the impact of environmental regulations on regional U.S. electricity generation and delivery systems
- Helped develop computerized simulation model that evaluates the relative costs and socioeconomic benefits of alternative dam-restoration options ranging from repowering to removal
- Helped conduct benefits valuation studies (BVS) of J.R. Whiting, J.H. Campbell, Karn-Weadock, and B.C. Cobb Generating Plants in Michigan, programming Analytica models to simulate evaluations of fishing benefits
- Provided research economic and social analysis of the Boardman River Dams, Closed Cycle Cooling, and Reliability Study Plan and programmed Analytica models to simulate economic analysis

Translation, Interpretation, and Engineering

- Fluent in reading, writing, and speaking Mandarin Chinese, Cantonese, and English
- Conducted surveys with ACL English Center's Chinese students to gain feedback about their study in Australia and to identify potential markets for ACL. Provided a written report on the focus group findings. Advised on and translated written marketing and ACL's promotional material from English to Chinese.
- Translated emails, orders, and technical files for business operations for a manufacturer of plastics. Acted as interpreter between the factory and visiting overseas customers.
- Performed structural analysis and maintenance work for clients' elevators and escalators. Analyzed employees' sales records and organized training classes to improve workers' sales skills. Negotiated business deals alongside the sales manager. Instructed Chinese employees in English communication skills.

Honors and Awards

Nominated for Shantou University Medal, Shantou University, June 2008

Excellent Graduate Award, Shantou University, June 2008

Escort Runner for 2008 Beijing Olympic Torch Relay, Beijing Olympics Organizing Committee, May 2008

First Prize Winner of the Thirteenth "21st Century Lenovo Cup" National English Speaking Competition sponsored by China Daily and Lenovo, rewarded with a sponsored internship at ACL Sydney English Center, April 2008

National Merit Scholarship, Chinese Education Ministry, 2007

Geoffrey Prentice scholarship, Mr. Geoffrey Prentice, 2007

Semester at Sea Scholarship, Li Ka-Shing Foundation, 2007

Second-rank Scholarship and Outstanding Student Honor, Shantou University, 2006–2007

First-rank Scholarship and Outstanding Student Honor, Shantou University, 2005–2006

First-rank Scholarship and Outstanding Student Honor, Shantou University, 2004–2005

Working Paper

Bingham, M.F., and Z. Li. 2008. "Evaluating the Relationship between Residential Property Values and Groundwater Quality." Working Paper No. 2008-05. Cary, NC: Veritas Economic Consulting.

Selected Reports

Bingham, M.F., K.E. Mathews, A.R. Morton, D.M. Woodard, E.S. Abrams, and Z. Li. 2008. *Economic and Social Analysis of the Boardman River Dams: Quantification of Existing Conditions*. Prepared for Boardman River Dams Committee. Cary, NC: Veritas Economic Consulting.

Bingham, M.F., G. Crownfield, J.C. Kinnell, Z. Li, K.E. Mathews, C.M. Spagnardi, J.S. Whaley, and D.M. Woodard. *B.C. Cobb Generating Plant Benefits Valuation Study*. Prepared for Consumers Energy Company. Cary, NC: Veritas Economic Consulting.

Bingham, M.F., J.C. Kinnell, Z. Li, K.E. Mathews, C.M. Spagnardi, J.S. Whaley, and D.M. Woodard. *J.H. Campbell Generating Complex Benefits Valuation Study*. Prepared for Consumers Energy Company. Cary, NC: Veritas Economic Consulting.

Bingham, M.F., J.C. Kinnell, Z. Li, K.E. Mathews, C.M. Spagnardi, J.S. Whaley, and D.M. Woodard. *Evaluation of Economic Benefits: J.R. Whiting Generating Plant*. Prepared for Consumers Energy Company. Cary, NC: Veritas Economic Consulting.

Bingham, M.F., J.C. Kinnell, Z. Li, K.E. Mathews, C.M. Spagnardi, J.S. Whaley, and D.M. Woodard. *Karn/Weadock Generating Complex: Benefits Valuation Study*. Prepared for Consumers Energy Company. Cary, NC: Veritas Economic Consulting.