

## Jason Scott Bergtold

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### Objective

To obtain a faculty position with teaching and research responsibilities in the field of economics with concentrations in the areas of econometrics, consumer economics and/or natural resource and environmental economics.

### Education

#### **Ph.D. Economics**, May 2004 (*expected*)

Virginia Polytechnic Institute and State University (Virginia Tech), Blacksburg, VA

Major Field: Econometrics, Operations Research

Minor Field: Environmental and Natural Resource Economics

Dissertation: *Advances in Applied Econometrics: Binary Discrete Choice Models, Artificial Neural Networks and Asymmetries in the FAST Multistage Demand System.*

Advisor(s): Daniel B. Taylor and Aris Spanos

#### **M.S. Agricultural and Applied Economics**, December 2001

Virginia Polytechnic Institute and State University (Virginia Tech), Blacksburg, VA.

Thesis: *Projected Economic Impacts of the New Partnership Agreement Between the EU and ACP States on the Senegalese Groundnut Sector.*

Advisor: George W. Norton

#### **B.A. Economics**, May 1999

Colorado State University, Fort Collins, CO.

### Teaching Interests

Applied Econometrics, Econometric Theory, Mathematical Programming and Operations Research, Environmental Economics and Principles of Macro/Microeconomics.

### Teaching Experience

#### **Instructor, Principles of Macroeconomics**, Spring Semester, 2003.

Department of Economics,

Virginia Polytechnic Institute and State University (Virginia Tech), Blacksburg, VA.

- Fully responsible for all aspects of class administration: class structure, class content, preparation and delivery of all class materials, administration of tests, and assignment of final grades, for an undergraduate class of 177 students.

Overall Rating of Instructor from Student Evaluations: 3.10 (out of 4.00)

**Teaching Assistant, Empirical Economics (Econometrics)**, Spring Semester, 2002 and 2004  
Department of Agricultural and Applied Economics,  
Virginia Polytechnic Institute and State University (Virginia Tech), Blacksburg, VA.

- Assisted Dr. Anya McGuirk in the preparation and teaching of a graduate level econometrics course.

**Instructor, Principles of Microeconomics**, Fall Semester, 2001.

Department of Economics,  
Virginia Polytechnic Institute and State University (Virginia Tech), Blacksburg, VA.

- Fully responsible for all aspects of class administration: class structure, class content, preparation and delivery of all class materials, administration of tests, and assignment of final grades, for an undergraduate class of 132 students.

Overall Rating of Instructor from Student Evaluations: 3.55 (out of 4.00)

### **Research Interests**

Applied Econometric Theory and Practice (Discrete Choice Models, Artificial Neural Networks and Misspecification Testing), Consumer Economics (Multistage Demand Systems and Model Specification), International Economics (The Cotonou Convention and West Africa), and Environmental and Natural Resource Economics (Contingent Valuation and Pollution Permit Trading)

### **Research Experience**

**Research Assistant**, Department of Agricultural and Applied Economics,  
Virginia Polytechnic Institute and State University (Virginia Tech), Blacksburg, VA.  
May 2002 – Present.

- Used feed-forward artificial neural networks to model dichotomous choice contingent valuation survey data and compared to traditional methods.
- Developed misspecification tests for variety of statistical models using orthogonal polynomials.
- Estimated a multi-stage demand system using panel data with fixed effects for forty-nine processed food categories.

**Research Assistant**, Office of International Research and Development,  
Virginia Polytechnic Institute and State University (Virginia Tech), Blacksburg, VA. August 1999 – August 2001.

- Used mathematical programming model to evaluate the economic impact of Cotonou Convention on the Senegalese groundnut sector.

### **Other Professional Experience**

**Referee**, *Agricultural Economics*, 2003

### **Publications**

Bergtold, J., G. Norton and C. Brewster. "Lomé to Cotonou: Trade Policy Alternatives for the Senegalese Groundnut Sector." Accepted for Publication, *Agricultural Economics*, 2004.

Bergtold, J., E. Akobundu and E.B. Peterson. "The FAST Method: Estimating Unconditional Demand Elasticities for Processed Foods in the Presence of Fixed Effects." Accepted for Publication. *Journal of Agricultural and Resource Economics*, 2004.

Bergtold, J. *Projected Economic Impacts of the New Partnership Agreement Between the EU and ACP States on the Senegalese Groundnut Sector*. MS Thesis, Department of Agricultural and Applied Economics, Virginia Tech, 2001.

### **Papers Selected for Presentation at Professional Meetings by Peer Review**

Bergtold, J., E. Akobundu and E.B. Peterson. "The FAST Method: Estimating Unconditional Demand Elasticities for Processed Foods in the Presence of Fixed Effects." Paper presented at the annual meeting of the American Agricultural and Applied Economics Association, Montreal, Quebec, July 27 – 30, 2003.

Bergtold, J., D.B. Taylor and D.J. Bosch. "Networking Your Way to a Better Prediction: Effectively Modeling Contingent Valuation Survey Data." Paper presented at the annual meeting of the American Agricultural and Applied Economics Association, Montreal, Quebec, July 27 – 30, 2003.

Bergtold, J., G. Norton and C. Brewster, "Projected Impacts of the New Partnership Agreement Between the EU and ACP States on the Senegalese Groundnut Sector." Paper presented at the annual meeting of the Southern Agricultural Economics Association, Dallas/Fort Worth, TX, January 28 – 31, 2001.

### **Additional Training and Skills**

GAMS Programming Workshop: Complementarity Modeling in Economics, March 28-31, Boulder, CO. Instructors: R.W. Cottle and T.F. Rutherford.

Operations Research, Statistical Software and Programming Languages: C, GAMS, GAUSS, MATLAB, SAS

### **Memberships**

American Agricultural Economics Association  
American Economics Association  
Southern Agricultural Economics Association

### **Honors and Distinctions**

AAEA Travel Grant, 2003  
The Honor Society of Phi Kappa Phi, Virginia Polytechnic Institute and State University, December 2002.  
President, AAEC/ECON Graduate Student Assembly, 2000-2001  
Omicron Delta Epsilon, Delta Chapter, Colorado State University, December 1999.