

## Philosophy of Graduate Study

Graduate study is much more than an extension of an undergraduate program and much more than the completion of courses. A successful graduate student must grow and mature as a professional. This requires the ability to integrate knowledge from formal courses, research activities, independent studies, and other experiences.

A professional applied economist should have the ability to define and solve real-world problems. Students are expected to develop and demonstrate these abilities in courses, examinations, research papers, seminars, theses, dissertations and dialogues with faculty and other graduate students.

The faculty is devoted to helping graduate students achieve academic, intellectual, personal, and career goals. The faculty will endeavor to create a challenging environment of scholarship, creativity, and intellectual freedom. Students are encouraged to work closely with the faculty and to participate in academic activities as colleagues of the faculty.

Graduate students also are expected to take an active part in student and departmental affairs. Their contributions to departmental policy and course and curriculum improvement are sought and welcomed.

## Programs of Study

The Department of Applied Economics and Statistics offers a Doctor of Philosophy (Ph.D.) in Applied Economics and both a thesis option Master of Science (M.S.) in and a non-thesis option Master of Science (M.S.) in Applied Economics and Statistics.

Applied economics and statistics graduate programs at Clemson are solidly based on economic theory and quantitative methods. A student's course work and research may be focused in one of the following areas:

- ▶ **Agricultural Production & Marketing**, including farm and agribusiness management, agricultural finance, agricultural policy, organization and structure of product markets, international and interregional trade, price forecasting, risk management, and consumer economics;
- ▶ **Natural Resource & Environmental Economics**, including resource conservation, land and water policy, wildlife management, non-market demand estimation, real estate appraisal, benefit cost analysis and public choice, and economics of property rights;
- ▶ **Regional & Development Economics**, including rural development policy, demography, location theory and spatial diffusion, regional economic structure, public finance, and economic impact analysis.
- ▶ **Applied Statistics**, including statistical techniques used in solving economic and institutional problems.

## Doctor of Philosophy in Applied Economics

The Ph.D. program is offered by the Department of Applied Economics and Statistics in cooperation with the John E. Walker Department of Economics. The program is administered by the Chair of the John E. Walker Department of Economics and the degree is granted in the College of Business and Behavioral Science. The Program Administrator is advised by the Applied Economics Policy Committee, Applied Economics Curriculum Committee, and Applied Economics Comprehensive Examination Committee. Each committee consists of four members – two from each of the two departments.

The Ph.D. program in applied economics is designed to produce

research scientists capable of independent study and research. In addition to acquiring a strong foundation in economic theory, Ph.D. students are expected to develop skills and expertise in the use of quantitative and qualitative research methods for the analysis of economic problems as demonstrated in comprehensive examinations and in dissertation research. Emphasis is placed on empirical applications of economic theory to the analysis and solution of practical problems.

Each student entering the Ph.D. program is unique with regard to background preparation and professional goals. Consequently, it is desirable to maintain considerable flexibility in developing degree curricula. The student, in consultation with his/her major professor and advisory committee, will construct a graduate degree curriculum compatible with the student's goals.

## Doctor of Philosophy Fields of Study

Each Ph.D. student is required to take courses in microeconomic theory, macroeconomic theory, and econometrics. In addition, each student must have at least two fields of specialization. A minimum of two courses constitutes a field, but most Ph.D. students take several more field courses as well courses in mathematics and statistics.

Ph.D. students may choose to study in the *Department of Applied Economics and Statistics* in the following areas: agricultural production economics, agricultural marketing economics, natural resource and environmental economics, public policy, regional and development economics, and applied statistics (see top of column 2 of this page for more details).

Ph.D. students may choose to study in the *John E. Walker Department of Economics* in the following areas: financial economics, labor economics, monetary economics, industrial organization, public sector economics, law and economics, international economics, and economic development.

## Master of Science in Applied Economics and Statistics

The department offers two types of M.S. programs in applied economics and statistics– the thesis option and the non-thesis option. Students should select the appropriate M.S. program based on their expected career paths.

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All M.S. students must complete at least 30 semester hours of graduate credit.

### Thesis Option M.S.

The Thesis Option M.S. program is designed to provide broad training in applied economics, economic theory, and research methodology. Specific emphasis on a particular field of applied economics is obtained through original research leading to an acceptable thesis. This program is designed for individuals who plan to pursue a Ph.D. degree or a career requiring a high level of research competence. The thesis option M.S. requires 24 semester hours of course work and 6 credit hours of thesis research.

### Non-thesis Agribusiness Option M.S.

The Non-thesis Option M.S. program is designed to provide practical training in economics and business and in a particular technical area. The program provides additional technical skills for business-oriented students and additional business skills for students with technical backgrounds. Students are required to write a professional paper and have the opportunity to participate in an internship or cooperative learning experience. The program is designed for individuals who plan to pursue business careers. ■

### Prerequisites

Graduate students in applied economics and statistics have a variety of backgrounds. It is not unusual for new graduate students to lack some courses that are needed for effective performance in the graduate program. Students may be required to complete background course work to prepare for graduate study. Pre-requisites may appear on the student's graduate degree curriculum if taken for credit, but cannot be counted toward satisfying the minimum credit hours required for the degree. Grades earned in pre-requisite courses are included in computing the student's grade point ratio (GPR).

The department encourages applications from individuals with bachelor's degrees in agricultural or applied economics, economics, or related programs and from others with a sound background in general economics. In many cases, such students may be

admitted to full graduate status without additional prerequisites. ■

## Admission Requirements

As a minimum and general requirement for admission to any of the University's graduate programs, a prospective student must hold at least a four-year bachelor's degree from an institution whose scholastic rating is satisfactory to the University and must have the approval of the department chair or program coordinator in which the major work is planned.

### Doctor of Philosophy Program

Prospective students must meet the following requirements of the Graduate School and must be accepted by the Graduate Program Coordinator after review by a departmental admissions committee.

Minimal requirements for full-status admission generally include a bachelor's degree with a GPR of 3.0, a Master's degree with a GPR of 3.0, acceptable scores on the Graduate Record Examination (GRE), three letters of recommendation, official transcripts of all college work, statement of purpose and, in the case of international students, a minimum cumulative score of 220 (550 paper based) on the Test of English as a Foreign Language (TOEFL) examination.

Standardized tests should be completed at least 12 weeks prior to registration day for the semester that students wish to begin graduate work. Letters of recommendation should be from individuals who are qualified to evaluate the student's ability to perform at the graduate level. The application form, application fee, official test scores, letters of recommendation, statement of purpose, and official transcripts should be mailed directly to the Graduate School.

Students having questions about this program should contact Ms. Ellen Reneke, Graduate Programs Assistant (phone: 864-656-5791; fax: 864-656-5776; e-mail: [ereneke@clemson.edu](mailto:ereneke@clemson.edu)).

### Master of Science Program

Minimal requirements for full-status admission to either the Thesis Option or Non-thesis Agribusiness Option M.S. program generally include a bachelor's degree with a GPR of 3.0, acceptable scores on the Graduate Record Examination (GRE), three letters of recommendation, official transcripts of all college work, statement of purpose, and, in the case

of international students, a minimum cumulative score of 550 on the Test of English as a Foreign Language (TOEFL) examination.

Students who do not meet the minimum requirements will be considered for provisional admission. Students accepted under the provisional status are not eligible for financial assistance.

Standardized tests should be completed at least 12 weeks prior to the registration day for the semester that students wish to begin graduate work. Letters of recommendation should be from individuals who are qualified to evaluate the student's ability to perform at the graduate level. The application form, application fee, official test scores, letters of recommendation, statement of purpose, official transcripts should be mailed directly to Graduate School, 101 Sikes Hall, Clemson University.

Students having questions about this program should contact Ms. Ellen Reneke, Graduate Programs Assistant (phone: 864-656-5791; fax: 864-656-5776; e-mail: [ereneke@clemson.edu](mailto:ereneke@clemson.edu)). ■

## Application Deadlines

The deadline for applications from *domestic students* is four weeks prior to registration. Registration is mid to late August for the Fall Semester; early January for the Spring Semester.

*International students living abroad* must have completed applications (including all supporting materials) to the Graduate School by April 15 for the Fall Semester and by September 15 for the Spring Semester.

Deadlines for *International students living in the United States* are June 15 for Fall Semester and November 1 for Spring Semester.

**However, to receive full consideration for financial aid**, all application materials should be completed by March for the Fall Semester and by September for the Spring Semester. ■

## Financial Assistance<sup>1</sup>

Graduate students in applied economics and statistics finance their educations in a variety of ways. Some students finance their education

<sup>1</sup>All assistantship and tuition amounts are current for 2005/06 and are subject to change.

without any external assistance. Fellowships are available from government agencies, industries, foundations, and other scholarship agencies. Information about various fellowships is available from the Graduate School and from the Dean of the College of Agriculture, Forestry and Life Sciences. Graduate students also may receive research/teaching assistantships from the Department of Applied Economics and Statistics (or, in the case of some Ph.D. students, from the Department of Economics).

Students desiring assistantships must apply and qualify for these assistantships. ***Assistantships are awarded competitively and depend upon the recommendation of the Research Graduate Program Committee and the research budget of the department.***

Decisions about awarding graduate assistantships are made by May for the Fall Semester and by October for the Spring Semester.

Typical assistantships are Research/Teaching Assistantships, requiring 20 hours of research work per week. Stipends range from \$10,000 for nine months for M.S. students, and \$15,000 for twelve months for Ph.D. students. Occasionally smaller assistantships will be awarded for special cases. Opportunities exist for additional funding when working on specific projects (e.g., grants) or for special responsibilities.

Students receiving assistantships pay tuition of \$1,044 per *semester* and \$348 per *summer session*. This is an annual tuition reduction of approximately \$5,800 for residents of South Carolina, and \$14,000 for non-residents of South Carolina. Fees can be paid through payroll deduction after the first semester of enrollment. In addition, graduate students may use the facilities at Fike Recreation Center and may purchase season tickets for sports events at the faculty-employee rate.

Assistantship appointments are for a period of one year and are generally renewed. Barring unforeseen circumstances, a graduate assistant is paid throughout the year, if the student is making satisfactory progress in the degree program and performing assistantship responsibilities satisfactorily.

International graduate students are required to be in proper immigration status before any assistantship offer is extended or attending benefits ensue.

All students receiving assistantships are responsible for assisting the faculty of the department in the conduct of teaching, research, and extension programs. The work that graduate assistants do for their assis-

tantships may or may not be directly related to their thesis/dissertation research.

Hourly work may be made available to those graduate students not receiving assistantships. Hourly work does not qualify one for reduced tuition.

The tuition for graduate students not on assistantship who are residents of South Carolina is \$4,100 per *semester* (plus \$401 per credit hour for summer sessions); non-residents of South Carolina pay tuition of \$8,214 per *semester* (plus \$677 per credit hour for summer sessions). ■

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## Faculty

### Department of Applied Economics and Statistics

Members of the faculty in the Department of Applied Economics and Statistics are listed below. Dr. Hoke Hill is the Department Chair and Dr. William Bridges is the Department Graduate Coordinator. The list below includes the faculty member's highest degree, institution awarding the degree and the faculty member's major areas of interest. The area code for all faculty telephone numbers is 864. All faculty e-mail addresses are @clemson.edu.

**David L. Barkley** (dbrkly)

**Professor** (656-5797)

Ph.D., Iowa State University. Regional economics, nonmetro financial markets, rural economic development policy, impact analysis.

**William C. Bridges, Jr.** (wbrdgs)

**Professor & Graduate Program Chair** (656-3012)

Ph.D., University of Nebraska-Lincoln. Statistical methods, statistical consulting, quantitative genetics, plant breeding

**Carlos Carpio** (ccarpio)

**Assistant Professor** (656-2439)

Ph.D. North Carolina State University, Production economics, agribusiness

**Charles E. Curtis, Jr.** (ccurtis)

**Professor** (656-5781)

Ph.D., University of Nebraska. Commodity marketing, policy, risk management, agricultural policy.

**Todd Davis** (tdavis)

**Assistant Professor** (656-5777)

Ph.D., Purdue University. Agricultural Economics, farm management, financial management.

**Molly Espey** (mespey)

**Professor** (656-6401)

Ph.D., Univ. of California-Davis. Resource and environmental economics and policy.

**Lawrence W. Grimes** (lwgrm)

**Professor** (656-3067)

Ph.D. Ohio State University. Statistical methods, animal breeding

**Michael D. Hammig** (mhammig)

**Professor** (656-3225)

Ph.D., Washington State University. Production economics, international development, policy analysis, pest management.

**Mark S. Henry** (mhenry)

**Professor** (656-5774)

Ph.D., Kansas State University.

Regional and resource economics, economic impact analysis, economic development, rural-urban linkages, local labor markets

**Hoke S. Hill, Jr.** (hhill)

**Professor & Department Chair** (656-3047)

Ph.D. Clemson University. Statistical methods, applied statistical research, econometrics, management science

**David W. Hughes** (dhugh3)

**Professor** (803-788-5700)

Ph.D. Washington State. Regional economic development, economic and fiscal impact analysis, public finance

**Olga Isengildina-Massa** (olga123)

**Assistant Professor** (656-2440)

Ph.D. Mississippi State. Futures and options markets, agricultural forecasting and evaluation, risk management, value of information in agricultural markets

**David Lamie** (dlamie)

**Associate Professor** (803-788-5700)

Ph.D. Clemson University. Regional economic development, policy analysis, rural telecommunications policy

**Rose Martinez-Dawson**, (martinr)

**Senior Lecturer** (656-2485)

Master of Statistics, North Carolina State University

Statistical methods

**Stephen E. Miller** (smllr)

**Professor** (656-5786)

Ph.D., Virginia Polytechnic Institute & State University. Marketing, management, price analysis.

**James C. O. Nyankori** (jnynr)

**Professor** (656-5788)

Ph.D., University of Illinois.

International trade, human resource economics (health and education), international agricultural technology transfer.

**James R. Rieck** (jriec)

**Professor** (656-3070)

Ph.D. Clemson University

Statistical methods, econometrics, management science.

**Kenneth L. Robinson** (krbnsn)

**Assistant Professor** (656-1723)  
Ph.D. Cornell University  
Community development,  
Entrepreneurship, social capital  
**Christopher M. Sieverdes** (cvsrds)  
**Professor** (656-0196)  
Ph.D., Mississippi State University.  
Community leadership, community  
development, social impact assessment.  
**Webb M. Smathers, Jr.** (wsmthrs)  
**Professor** (656-5764)  
Ph.D., University of Kentucky. Re-  
source economics, wildlife economics.  
**Scott Templeton** (stemple)  
**Associate Professor** (656-6680)  
Ph.D., University of California,  
Berkeley. Environmental and resource  
economics, development economics.  
**Joe E. Toler** (jtoler)  
**Professor** (656-3097)  
Ph.D. Clemson University. Statistical  
methods, experimental design, plant  
genetics  
**William A. Ward** (waward)  
**Professor & Director of Center for  
International Trade** (656-6745)  
Ph.D., Michigan State University.  
International policy, international trade,  
international business, investment  
analysis.  
**Gary J. Wells** (gjwells)  
**Professor** (656-5798)  
Ph.D., North Carolina State University.  
International competition and trade.  
Globalization.

## Department of Economics

Faculty in the Department of  
Economics participate in the Ph.D.  
program in applied economics and  
teach core theory courses for both M.S.  
and Ph.D. students. (The area code for  
all numbers is 864. All faculty e-mail  
addresses are @clermson.edu.)

**Scott L. Baier** (sbaier)  
**Assistant Professor** (656-4876)  
Ph.D. Michigan State Univ  
**Daniel K. Benjamin** (wahoo)  
**Professor** (656-3964)  
Ph.D., University of California,  
Los Angeles.  
**Bentley Coffey** (bc Coffey)  
**Assistant Professor** (656-3481)  
Ph.D. Duke University  
**David Cuberes**  
**Assistant Professor**  
Ph.D. University of Chicago  
**Angela Dills** (adills)  
**Assistant Professor** (656-1154)  
Ph.D. Boston University  
**William R. Dougan** (douganw)  
**Professor** (656-4533)  
Ph.D., University of Chicago.  
**David H. Gordon** (gd)  
**Assistant Professor** (656-3956)  
Ph.D., University of Chicago.  
**Michal M. Jerzmanowski** (mjerzma)

**Assistant Professor** (656-0551)  
Ph.D. Brown University  
**Todd D. Kendall** (tkendal)  
**Assistant Professor** (656-0554)  
Ph.D. University of Chicago  
**Chris Kirby**  
**Associate Professor**  
Ph.D. Duke University  
**Cotton M. Lindsay** (lindsay)  
**Professor & Graduate Coordinator**  
(656-3955)  
Ph.D., University of Virginia  
**Michael T. Maloney** (maloney)  
**Professor** (656-3430)  
Ph.D., Louisiana State University  
**Robert E. McCormick** (sixmile)  
**Professor** (656-3441)  
Ph.D., Texas A&M University  
**Sonia Oreffice** (oreffice)  
**Assistant Professor** (656-1154)  
Ph.D. University of Chicago  
**Dennis L. Placone** (dlplc)  
**Associate Professor** (656-3951)  
Ph.D., University of Pittsburgh  
**Raymond D. Sauer Jr** (sauerr)  
**Professor & Department Chair  
Graduate Program Chair (PhD)**  
(656-3969)  
Ph.D., University of Washington  
**Joanna Shepherd** (jshephe)  
**Assistant Professor** (656-6786)  
Ph.D. Emory University  
**Curtis J. Simon** (cjsmn)  
**Associate Professor** (656-3966)  
Ph.D., State University of New York at  
Binghamton  
**Robert F. Tamura** (rtamura)  
**Associate Professor** (656-1242)  
Ph.D., University of Chicago  
**Charles J. Thomas**  
**Assistant Professor**  
Ph.D. Princeton University  
**G. Richard Thompson** (tg)  
**Professor** (656-0946)  
Ph.D., University of Virginia  
**Robert D. Tollison** (rtollis)  
**Professor** (656-3481)  
Ph.D. University of Virginia  
**John T. Warner** (jtwarne)  
**Professor** (656-3967)  
Ph.D., North Carolina State University  
**Lei Zhang** (zlei)  
**Assistant Professor** (656-6853)  
Ph.D. Stanford

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## Applied Economics and Statistics Faculty Selected Publications

The following selected publica-  
tions, from the past several years,  
provide a sample of recent and current  
research interests of the faculty. An  
asterisk (\*) following the author's name  
indicates that the work was co-

authored with one or more individuals  
from other institutions.

- Barkley, D. L., M. S. Henry, and M. L. Warner.** 2002. The Community-Level Impacts of Economic Development: The Role of Local Labor Market Adjustments. In *The Rural South: Preparing for the Challenges of the 21<sup>st</sup> Century*. Southern Rural Development Center
- Barkley, D. L.\*** 2001. Certified Capital Companies: Strengths and Shortcomings of Latest Wave in State-assisted Venture Capital Programs. *Economic Development Quarterly*.
- Barkley, D. L.** 2003. Policy Options for Equity Financing for Rural Entrepreneurs in *Main Streets of Tomorrow: Growing and Financing Rural Entrepreneurs*. Federal Reserve Bank of Kansas City.
- Espey, M.** 2005. Automobile Fuel Economy: What Is It Worth? *Contemporary Economic Policy*, 23: 317-323.
- Espey, M.** 2002. Price Setting Under the Federal Recreation Fee Demonstration Program: 1996-2001. *Association of Environmental and Resource Economists Newsletter*.
- Espey, M.\*** 2004. Turning on the Lights: A Meta-Analysis of Residential Electricity Demand Elasticities. *Journal of Agricultural and Applied Economics*
- Hammig, M. D.\*** 2002. Profitability Comparison of the Partitioned Aquaculture System with a Traditional Catfish Farm.. *Aquaculture Economics and Management*
- Hammig, M.D.\*** 2002. Estimates of Transport Losses of World Food Supply. *Journal of International Food and Agribusiness Marketing*.
- Henry, M. S.\*** 2001. Spatial Econometric Models for Simultaneous Systems: Application to Rural Community Growth in France. *International Regional Science Review*.
- Henry, M.S.\*** 2002. Reducing Food Stamp and Welfare Caseloads in the South: Are Rural Areas Less Likely to Succeed Than Urban Centers? In *Rural Dimensions of Welfare Reform*, eds. B. Weber, G. Duncan and L. Whitener. Upjohn Institute Press.
- Henry, M.S., and D.L. Barkley.** 2003.\* Fiscal Trends: Implications for the Rural South. *Journal of Agricultural and Applied Economics*.
- Henry, M.S.** 2003. Meat Processing in Rural America: Economic Powerhouse or Problem? Chapter

- 6 in *Communities of Work: Rural Restructuring in Local and Global Contexts.*, Eds. W.W. Falk, M.D. Schulman and A.R. Tickamyer. Ohio University Press.
- Henry, M.S. and D.L. Barkley.\* 2004.** Identifying Urban-Rural Linkages: Tests for Spatial Effects in the Carlino-Mills Model. Chapter 15, *Advances in Spatial Econometrics: Methodology, Tools and Applications.* Edited by L. Anselin, R.J.G.M. Florax and S.J. Rey. Springer-Verlag.
- Isengildina, O.\* 2006.** Crop Farmer's Use of Market Advisory Services. *Journal of International Food and Agribusiness Marketing*
- Isengildina, O.\* 2004.** Evaluation of USDA Interval Forecasts of Corn and Soybean Prices. *American Journal of Agricultural Economics.*
- Miller, S.E.\* 2006.** Identifying Competencies Possessed and the Skills Needed of Entry-Level College Graduate Agribusiness Employees. *Research Report RR 06-01*, Dept of Applied Economics & Statistics.
- Miller, S. E. and Bradford, G. L. 2001.** Teaching Net Present Value Analysis. *Review of Agricultural Economics.*
- Miller, S. E. 2000.** Averting-Cost Measures of the Benefits to South Carolina Households of Red Imported Fire Ant Control. *Journal of Ag and Urban Entomology.*
- Robinson, K.L., R.D. Christy and Ntam Baharanyi. 2005.** Empowering Rural Communities Through Entrepreneurship: Experiences from the 1890 Land-Grant Institutions. USDA, *Rural Development.*
- Robinson, K.L., W. Dassie and R.D. Christy. 2004.** Entrepreneurship and Small business Development as a Rural Development Strategy. *Southern Rural Sociology.*
- Rainey, D.V., **K.L. Robinson, I. Allen and R.D. Christy. 2003.** Essential Forms of Capital for Sustainable Community Development. *American Journal of Agricultural Economics.*
- Templeton, S. R. 2002.** Economic Impacts of Environmental Horticulture in California, South Carolina and the United States. In *Proceedings of the Symposium on Urban Agriculture: Emerging Opportunities in Science, Education and Policy.*
- Templeton, S.\* 2000.** An Economic Analysis of Environmental Horticulture with a Focus on California. *HortScience.*
- Templeton, S.\* 1999.** Effects of Demographic and Related Micro-economic Change on Land Quality in Hills and Mountains of Developing Countries. *World Development.*
- Templeton, S.\* 1999.** Agriculture and the Environment: An Economic Perspective with Implications for Nutrition. *Food Policy.*
- Wells, G. J. 2001.** Trade Agreements: A Pro/Con Analysis of Including Core Labor Standards. *Congressional Research Service Report RS20909.*
- Wells, G. J. 2001.** Regional Trade Agreements: An Analysis of Trade-Related Impacts. *Congressional Research Service Report RL31072.■*

## Graduate Student Research

Each student in the Thesis Option M.S. program or in the Ph.D. program must select a research problem, develop an outline setting forth a research plan, and conduct a research project, in consultation with the major advisor. The report of this research must satisfy thesis or dissertation standards for M.S. and Ph.D. students. Agribusiness Option M.S. students must write a paper of professional quality.

Publication is an integral part of research. All M.S. and Ph.D. students are expected to complete research of publishable quality.

The following is a partial list of recent oral presentations at regional and national professional meetings and publications authored or coauthored by graduate students in agricultural and applied economics. Graduate student names are in bold print.

### Presentations

- Barkley, D.L., M.S. Henry and **Santosh Nair. 2004.** Regional Innovation Systems as The Key to Global Competitiveness: Implications for Rural Areas and Workers. The Shadows of Poverty: Strengthening the Rural Poverty Research Capacity of the South, Southern Rural Development Center and RUPRI conference.
- Bhattarai, M., and M. Hammig. 2000.** An Empirical Investigation of the Environmental Kuznets Curve for Deforestation in Latin America. Southern Agricultural Economics Assoc., Lexington, KY.
- Bhattarai, M., and M. Hammig. 2000.** An Empirical Investigation of the Environmental Kuznets Curve for Deforestation in Latin America. Southern Agricultural Economics Assoc., Lexington, KY.
- Espey, M. and **K. Owusu-Edusei. 2001.** Neighborhood Parks and Demographics in Greenville, South Carolina. Southern Agricultural Economics Annual Meeting, Orlando Florida.
- Fakhruddin, F., and M. Espey. 2003.** Living on the Edge: Property Values in the Urban/Rural Fringe," American Agricultural Economics Association annual meetings, Montreal, Canada
- Henry, M.S., **Chao Fu, Yunlong Zhang and Haizhen Li. 2004.** Modeling Population and Employment Growth in Small Region Development: The Sichuan Example. Inaugural Conference of the Consortium for Western China Development Studies.
- Henry, M.S., **Haizhen Li** and D.L. Barkley. 2003. Human Capital and Rural Growth in the Southern United States: 1970-2000. Regional Science Association International Annual Meetings.
- Li, Haizhen, M.S. Henry and D.L. Barkley. 2005.** Public School Spending in the South: Will the Elderly and Rural Population Help or Hinder Support for Local Schools? Southern Regional Science Association Annual Meeting.
- Lin, Huiyan, K. Lu, M. Espey, and J. Allen. 2006.** Modeling Urban Sprawl and Land Use Change in a Coastal Area – A Neural Network Approach. American Agricultural Economics Association Annual Meeting.
- Nardi, Matias G. , and T.D. Davis. 2006.** Supply Chain Management in Argentina and Brazil and the Effect on World Agricultural Competitiveness." Argentine Soybean Crushing Industry Experts, Buenos Aires.
- Espey, M. and **K. Owusu-Edusei. 2001.** Neighborhood Parks and Demographics in Greenville, SC. American Agricultural Economics Association Meeting, Chicago, IL.
- Sharma, Ritu, and S.R. Templeton, C. Privette, J.Hayes and W. Hunt. 2005.** An Economic Analysis of Costs of Bioretention Cells and Stormwater Ponds. Southwestern Economics Association Annual Meeting.
- Shim, M., and M. Hammig. 2000.** Factors Affecting Consumption of Rice Products in the United States. Southern Agricultural Economics Association, Lexington, KY.
- Templeton, S.R. and **Ritu Sharma. 2003.** Determinants of Statewide Land Development in the United

States. Southern Agricultural Economics Association Annual Meeting.

**Towfique, B.,** and M. Espey. 2002. Hydro-politics: The Economic Foundations of International Water Treaties. American Agricultural Economics Association, Long Beach CA.

**Vinuya, Ferdinand.,** M.S. Henry, D.L. Barkley and M.D. Hammig. 2005. Technical Efficiency of South Carolina Shrimp Fishery and Its Implications for the Local Industry. Southern Regional Science Association Annual Meeting.

## Publications

Barkley, D.L., M.S. Henry and **Brian Gantt.** 2004. The S. C. Shrimp Trawling Industry: 2003 Survey Results. Regional Economic Development Research Laboratory Research Report 09-2004-01.

**DeWald, J.,** M. Espey and M. Hammig. 2004. Implementation of Village Self-Help Projects in the Kyrgyz Republic. *World Development.*

Espey, M. and **K. Owusu-Edusei.** 2002. Federal Land Acquisition and Payments-In-Lieu of Taxes: One Piece in the Puzzle of County Finance. *Choices*

Espey, M., and **K. Owusu-Edusei.** 2001. Neighborhood Parks and Residential Property Values in Greenville, South Carolina. *Journal of Agricultural and Applied Economics.*

Espey, M., and **B. Towfique.** 2004. International Bilateral Water Treaty Formation. *Water Resources Research*

**Espey, M. and Santosh Nair.** 2005. Automobile Fuel Economy: What is it Worth? *Contemporary Economy Policy*

Henry, M.S., D.L. Barkley, **Ferdinand Vinuya and Brian Gantt.** 2005. Options For Processing Shrimp Landed in South Carolina. Regional Economic Development Research Laboratory Research Report.

Henry, M., D.L. Barkley and **Haizhen Li.** 2003. Education and Nonmetropolitan Income Growth in the South. *Southern Perspectives*

**Kim, Y.,** D. L. Barkley, and M. S. Henry. 2000. Industry Characteristics Linked to Establishment Concentrations in Nonmetropolitan Areas. *Journal of Regional Science.*

**Lewis, Willis** and M.S. Henry. 2004. Do Rural Welfare Caseloads have a Stake in Metropolitan Areas Growth? *The Southern Business and Economic Journal*

Nyankori, J. C. O., and **Veronica Wabukawo.** 2002. "School Characteristics and Academic Performance in Uganda: Evidence From 2001 Primary Leaving Examinations. *Working Paper WP 061202, Clemson University.*

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## Regional Economic Development Research Laboratory (REDRL)

The REDRL has been established to provide research expertise on issues related to the economic growth and development of communities, counties, and states. REDRL is comprised of nationally recognized scholars dedicated to analyzing and understanding changes in regional economies and implications of changes on residents, businesses, and the public sector.

The goals of REDRL are to:

- ▶ facilitate and conduct innovative research projects whose results can be used by state and local leaders, agencies, and foundations to enhance prospects for regional economic development;
- ▶ establish a critical mass of expertise in regional economics, rural development, and urban planning using Clemson University faculty, facilities, and resources; and collaborate with researchers at other universities and government agencies;
- ▶ serve as a focal point for requests from state and local governments, foundations, private firms, US government departments, and private, nonprofit groups for research pertaining to regional eco-

omic development trends, strategies and policies. ■

## Research Facilities and Equipment

Graduate students have access to a variety of research and educational facilities.

Clemson's Division of Computing and Information Technology (DCIT) supports the computing activities of students, faculty and staff with an extensive network of computers. DCIT maintains and supports 13 computer labs located throughout the campus. The labs contain high-end PCs and laser printing equipment. All students have access to the Internet, electronic mail, word processing and spreadsheet applications. DCIT provides students and faculty members services through the Collaborative Learning Environment (CLE). The CLE facilitates the use of technology in teaching and research by offering a wide array of tools and resources. Access to CLE services for each course section is automatically maintained through the class enrollment system.

An extensive array of computer hardware is housed at the Information Technology Center at the Clemson Research Park. DCIT operates a statewide computing network incorporating processors from a variety of vendors.

Computer training is available to all faculty, students and employees as part of regular University courses, through short courses and in special training programs designed for various kinds of users. A complete list of DCIT services is available on the DCIT homepage ([dcit.clemson.edu](http://dcit.clemson.edu)).

The data processing lab in the department is equipped with up-to-date hardware and software. In addition, all PCs are connected to the university's mainframe computer.

New graduate students will be introduced to the mainframe and personal computer facilities available to them through the department's data processing lab and the Division of Computing and Information Technology. Students are expected to do their own computer work, including programming.

The University's main library is located 150 yards from the department. It houses more than 1.6 million documents and has excellent computerized, literature-search databases. Outstanding collections of journals, books, government documents and primary research materials have been

developed in many areas, especially agriculture, natural and physical sciences, economics and technology.

Access to the Libraries' collections is provided through the Online Libraries Catalog, a part of the Libraries' CU Explorer system. To assist in finding journal and newspaper articles, the Libraries have provided access to a number of electronic indexes, several of them providing access to full-text journals online. CU Explorer is accessible from most computers on campus as well as through dial access.

Graduate students have office space in Barre Hall, near the faculty, the department's data processing laboratory and the G. H. Aull Reading Room. ■

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## Applied Economics & Statistics Graduate Student Organization

The Applied Economics and Statistics Graduate Student Organization (GSO) is open to all students wishing to join. The purpose of the GSO is to maintain a formal channel of communication between the graduate students and the department faculty and staff through which ideas and issues of concern may be exchanged. Also, the GSO provides a forum for the graduate students to discuss matters relating to their professional and social welfare. Membership dues are \$5.00 per semester (subject to change by vote of the members).

The GSO works with the Research-Graduate Program Committee chairman in welcoming new graduate students and helping them get settled in Clemson. All graduate students are encouraged to become active members of the GSO to enhance their educational and social experience at Clemson. ■

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## Clemson University

Clemson University is nestled in the picturesque foothills of the Blue Ridge mountains. The 1,400 acre campus, on the former plantation of John C. Calhoun, is located on the shores of Lake Hartwell in the northwestern part of South Carolina.

The University was founded as Clemson College in 1889 when Thomas Green Clemson, son-in-law of statesman John C. Calhoun, bequeathed the Calhoun farm, Fort Hill, to the state of South Carolina to be used as an agricultural college. The University became the land grant university of South Carolina with the

Hatch and Smith-Lever Acts of 1887 and 1914, respectively. Clemson was an all-male military school until 1955. The University presently has approximately 17,000 students enrolled, including 5,000 graduate students.

Clemson's Graduate School was formed in 1947. Through the five academic colleges of the University, Master's degrees are offered in 73 areas. Doctoral programs are currently authorized in 41 specialties in the University. Research, an integral component of the postbaccalaureate education, is conducted on campus, across the country, and in foreign countries.

The Department of Applied Economics and Statistics is one of the largest and most diverse departments on campus, providing graduate students with opportunities to study and conduct research in a variety of specialties ranging from more traditional concerns of farm management, production economics and marketing to applied studies in the areas of natural resource policy, regional economic development, and wildlife economics. ■

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## Climate, Recreation and Cultural Activities

The weather in the Clemson area is mild with an average winter temperature of 41°F and summers averaging 80°F. The winters, although mild, may provide occasional snowfalls. Likewise, summer temperatures often reach, and sometimes exceed, 90°F. However, the proximity of the mountains, several lakes and rivers allows residents and visitors to enjoy all seasons.

Lake Hartwell, with a shoreline of nearly 1,000 miles, borders the University campus. Lakes Keowee and Toxaway are also close. Several state parks on the shores of the lakes or in the mountains are within an hour's drive of the campus. White-water rafting, tubing, and bass and trout fishing are also available less than an hour's drive away. The coastal beaches of South Carolina are only four and one-half hours away and range from the excitement and glitter of Myrtle Beach to the seclusion and tranquility of Hunting Island (near the historic city of Beaufort).

The Clemson area has a rich historical background. The antebellum home of John C. Calhoun is on the campus, as is the Hanover House, built in 1716. The neighboring town of Pendleton is listed in the National Register of Historic Places. Cowpens

National Battlefield, site of the brilliant victory of Daniel Morgan and his backwoodsmen over British Regulars in 1781, is a short drive from the campus.

The city of Greenville, dedicated to growth in the arts and education, is 30 miles away. Greenville is home to several theater and ballet companies, musical organizations and two art museums. The Peace Center for the Performing Arts is a world-class center featuring international performances in music, drama and dance. The Greenville-Spartanburg airport supports several national airlines.

The Brooks Center for the Performing Arts at Clemson University is home to several concert series, theater, and other performances. The Strom Thurmond Institute for Excellence in Government is located on campus and houses the Thurmond collection.

Clemson is just off Interstate 85 about midway between Charlotte, NC, and Atlanta, GA. This region along the I-85 corridor is one of the fastest growing areas of the United States.

The city of Atlanta, Georgia is only 120 miles to the south. Atlanta features a wide range of cultural and sporting events. The international airport in Atlanta is the busiest in the country.

The University is a 10-minute drive from Seneca, 20 minutes from Easley and Anderson, and 40 minutes from Greenville. These nearby cities offer numerous employment opportunities for dependents, commercial centers, and recreation. ■

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## Housing

Questions about housing should be directed to the Housing Office, Assignments, 200 Mell Hall, Box 344075, Clemson, SC 29634-4075 (864-656-2295). A variety of rental housing is available in the city of Clemson and surrounding areas. Most graduate students prefer to live off-campus and share living expenses with other graduate students. ■

## How to Apply

Students are expected to apply electronically at the Graduate School web page:  
[www.grad.clemson.edu /](http://www.grad.clemson.edu/)

When an electronic application is submitted, all required supporting documents and the application fee must be mailed within 60 days to Graduate Admissions, 104 D Sikes Hall, Clemson University, Clemson, SC 29634. Complete Instructions are found at the website.

Students may request an application packet to be mailed to them by contacting the Graduate School at 104D Sikes Hall, Clemson University, Clemson, SC 29634 or by calling 864-656-3195 or at the web address [www.grad.clemson.edu/p\\_apply.html](http://www.grad.clemson.edu/p_apply.html)

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## Further Information

For more specific information about our graduate programs, please contact:

Graduate Programs  
Department of Applied Economics and Statistics  
269 Barre Hall  
Clemson University  
Clemson, SC 29634-0355

Telephone:  
864-656-5791

Fax:  
864-656-5776

E-mail:  
ereneke@clemson.edu

Web pages:

Department of Applied Economics and Statistics  
<http://cherokee.agecon.clemson.edu>

Department of Economics  
<http://www.clemson.edu/economics/>

Clemson University Graduate School  
<http://www.grad.clemson.edu>