

CURRICULUM VITAE

11/1/2011

PERSONAL INFORMATION

Name: Seong C. Park
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Department of Agricultural Economics
Texas A&M University,
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EDUCATION

Ph.D., Oklahoma State University, Agricultural Economics, July 2009.
Dissertation: *Economic Analysis on Animal Manure; Static and Dynamic Approaches, Cox Non-nested Test and Optimal Nitrogen Rates for Grasses.*
Committee: Art Stoecker, Wade Brorsen, Jeffery Hattey, Tracy Boyer, Bailey Norwood.

M.S., West Texas A&M University, Agricultural Economics, May 2005.

B.S., Kyungpook National University, South Korea, Economics, February 1999.

PRIMARY FIELDS OF INTEREST

Environmental/Natural Resource Economics, Climate Change, Water Management, Sustainable Bioenergy Production, Integrated Cropping System, Nutrient Management, Risk Analysis,

PROFESSIONAL EXPERIENCE

Sept. 2011 - Present **Assistant Professor/ Agricultural and Resource Economist**
Texas AgriLife Research
Amarillo, Texas

- Nov. 2009 – **Adjunct Professor**
Present Department of Agricultural Sciences, West Texas A&M University, Canyon, Texas
- Sept. 2009 – **Assistant Professor/ Agricultural and Resource Economist**
Present Texas AgriLife Research Center- Vernon, Texas
- Sept. 2009 – **Assistant Professor**
Present Department of Agricultural Economics, Texas A&M University, College Station, Texas
- Aug. 2005- **Doctoral Graduate Research Assistant**
July 2009 Department of Agricultural Economics, Oklahoma State University, Stillwater, Oklahoma
- Sept. 2003- **Masters Graduate Assistant**
May 2005 Department of Agricultural Sciences, West Texas A&M University, Canyon, Texas

SELECTED PUBLICATIONS AND JOURNAL ARTICLES IN PROGRESS

S.C. Park , J. Vitale, J. C. Turner, J.A. Hattey, and A. Stoecker. 2011. “Economic Potential of Intensified Forage Systems in the Southern Plains.” *Journal of American Society of Farm Managers and Rural Appraisers*. 74:97-119.

J.D. Vitale, C. Penn, **S.C. Park**, J. Payne, J. Hattey and J. Warren. 2011. “Animal Manure as Alternatives to Commercial Fertilizers in the Southern High Plains of the United States: How Oklahoma Can Manage Animal Waste.” In S. Kumar, ed. *Integrated Waste Management- Volume II*. Rijeka, Croatia: InTech, pp. 143-164.

S.C. Park , J. Vitale, J. C. Turner, J.A. Hattey, and A. Stoecker. 2010. “Economic Profitability of Sustained Application of Swine Lagoon Effluent and Beef Feedlot Manure Relative to Anhydrous Ammonia in the Oklahoma Panhandle.” *Agronomy Journal*. 102:420-430.

S.C. Park , F. Bretz, S. Amosson, and T. Marek. “Economic Analysis of Manure Harvesting Equipment Utilized in Feedyards for Dust Control.” *Texas Journal of Agriculture and Natural Resources*. (under review).

S.C. Park ,B.W. Brorsen, A. Stoecker and J. A. Hattey. “Forage Response to Swine Effluent: Cox Nonnested Test of Alternative Functional Forms Using a Fast Double Bootstrap.” *Journal of Agricultural and Applied Economics* (under review).

S.C. Park , R. J. Ansley, and M. Mirik. “Delivered Biomass Costs of Honey Mesquite (*Prosopis glandulosa*) for Bioenergy Uses in the Southern Great Plains, USA.” *Global Change Biology Bioenergy* (under review).

J. Cho, **S.C. Park**, and S. Bevers. “An Economic Performance Analysis of the Beef Cow-Herd Enterprise Using a Stochastic Frontier Function.” *International Journal of Livestock Production* (under review).

R.J. Ansley, M. Mirik, B.W. Surber, and **S.C. Park**. “Canopy Area and Aboveground Mass of Individual Redberry Juniper(*Juniperus pinchotii* Sudw.) Trees.” *Rangeland Ecology and Management* (under review).

S.C. Park, R. Woodward, J. Hattey and A. Stoecker. “Economically Optimal Nutrient Management Systems in the Southern High Plains: Stochastic Dynamic Programming.” *in progress*.

C. Phetcharat, **S.C. Park**, J. Vitale, J. Warren, A. Stoecker, and J. Hattey “Optimal Application of Swine Effluent under Stochastic Weather Condition in the Semi-Arid Area.” *in progress*.

S.C. Park, J. Cho, S. Amosson, S. Bevers, and J. Rudd. “Optimal Wheat Variety Selection Strategies in the Southern High Plains.” *in progress*.

H. Yu, **S.C. Park**, S. Amosson, and B. McCarl “Optimal Policy Regulation Reducing Emission from Feedlot and Dairies in the Southern High Plains.” *in progress*.

W. Wang, **S.C. Park**, S. Amosson, and B. McCarl. “Economic and Groundwater Use Implications of Bioenergy Feedstocks Production in the OAP Region.” *in progress*.

P. DeLaune, J. Sij, and **S.C. Park**. “Impact of Tillage Treatments on Cotton across Subsurface Drip Irrigation Levels in the Texas Rolling Plains.” *in progress*.

S.C. Park, J. Cho, R. Teague, and U. Kreuter. “Optimal Rangeland Stocking Density in a Semi-arid Savanna.” *in progress*.

J. Cho, **S.C. Park**, J. Ansley, and M. Mirik. “Economic Feasibility of Rangeland Biomass Relative to Coal as Feedstock for Bio-electricity Generation.” *in progress*.

TECHNICAL, INDUSTRY, AND CONTRACT REPORTS

DeLaune, P.B., J.W. Sij, D. Jones, and **S.C. Park**. 2011. Conservation tillage systems and water management strategies for subsurface drip irrigated cotton production in the Texas Rolling Plains. Final Report to Cotton, Inc. Project No. 08-312TX.

CITATIONS, INTERVIEW, INDUSTRY, AND POPULAR PRESS

AgriLife Today (June 30, 2011). Cool-season greases more profitable than warm-season grasses. <http://agrilife.org/today/2011/06/30/agrilife-research-study-cool-season-grasses-more-profitable-than-warm-season-grasses/>

Texas A&M AgriLife (March 3, 2011). New study to look at economics, groundwater use of bioenergy feedstocks. *ScienceDaily*. Retrieved March 21, 2011, from <http://www.sciencedaily.com/releases/2011/03/110303184119.htm>

Interview to USDA Radio News (July 12, 2010) : Actuality: on Economic Benefit of Manures as Fertilizer. <http://audioarchives.oc.usda.gov/radnewsdetail.asp?ID=12911>

Texas A&M AgriLife Communications (June 29, 2010). “Manure provides higher returns than chemical fertilizers, economist says”. *ScienceDaily*. Retrieved November 9, 2010, from <http://www.sciencedaily.com/releases/2010/06/100628124559.htm>

TEACHING EXPERIENCE

Oklahoma State University

Spring 2009 **Teaching Assistant (TA) in AGEC 3423 Farm and Agricultural Business Management** (Advisor: Dr. Vitale)

- Developed handouts and exam questions
- Taught 6 help sessions for the enterprise budget using Excel spreadsheet
- **Evaluation: N/A**

Fall 2007 **TA in AGEC 5503 Economics of Natural and Environmental Policy** (Advisor: Dr. Stoecker)

- Taught part of one class using Microsoft PowerPoint[®]
- Held office hours for students
- **Evaluation: N/A**

Spring 2006 **TA in AGEC 5403 Production Economics** (Advisor: Art. Stoecker)

- Developed handouts and exam questions
- Helped grade exams and homework
- Held office hours for students
- **Evaluation: N/A**

Fall 2005 **TA in AGEC 4343 International Agricultural Markets, Trade and Development** (Advisor: Shida Henneberry)

- Taught 3 review classes for exams
- Developed handouts and exam questions
- Graded 3 exams and 12 homework for 44 students
- Held office hours for students
- Received excellent evaluation from students.
- **Evaluation: 4.8/5.0**

REFEREED CONFERENCES AND PROCEEDINGS

B. Bhattarai, G.T.Fosgate, J.B. Osterstock, **S.C. Park**, and A.J. Roussel. “Culling decisions based on microbiological and serological test results for the control of Johne’s disease in beef cow-calf operations.” 2011 Conference of Research Workers in Animal Diseases, Chicago, IL, December 4 to 6, 2011.

B. Bhattarai, G.T.Fosgate, J.B. Osterstock, C.P. Fossler, **S.C. Park**, and A.J. Roussel. “Effect of positive test results for *Mycobacterium avium* subspecies *paratuberculosis* on weaning weights in beef cow-calf herds.” 2011 AAVLD/USAHA Annual Meeting in Buffalo, NY, September 28-October 5, 2011.

B. Bhattarai, G.T.Fosgate, J.B. Osterstock, C.P. Fossler, **S.C. Park**, and A.J. Roussel. “Perceptions of beef cow-calf producers and veterinarians on losses associated with Johne’s disease.” 2011 AABP Annual Conference in St. Louis, Missouri. September 22-24, 2011.

C. Yu, **S.C.Park**, B.McCarl, and S. Amosson. “Feedlots, Air Quality, and Dust Control-Benefit Estimation.” Poster Presentation, Agricultural and Applied Economic Association (AAEA) meeting, July 24-26, 2011.

W. Wang, **S.C.Park**, B.McCarl, and S. Amosson. “Economic and Groundwater Use Implications of Climate Change and Bioenergy Feedstock Production in the Ogallala Aquifer Region.” Selected paper, Agricultural and Applied Economic Association (AAEA) meeting, Pittsburgh, Pennsylvania, July 24-26, 2011.

W. Wang, **S.C.Park**, B.McCarl, and S. Amosson. “Groundwater Use and Economic Implications of Climate Change in Ogallala Aquifer Region.” The 2011 UCOWR/NIWR Conference, Planning for Tomorrow’s Water: Snowpack, Aquifers, and Reservoirs. July 11-14, 2011, Colorado.

S. Amosson, J. R. Girase, B. Guerrero, **S.C. Park**, B. Bean, and W. Rooney. “Economic Analysis of Sweet Sorghum and Biomass Sorghum for Biofuels Production in the Texas High Plains.” Invited paper, Western Agricultural Economics Association (WAEA) meeting, Banff, Alberta, Canada, June 29-July 1, 2011.

C. Phetcharat, A.L. Stoecker, J.A. Hattey, J.G. Warren, J.D. Vitale, and **S.C. Park**. “An Optimal Application of Swine Effluent in Texas and Oklahoma Panhandle Determined by Bayesian Stochastic Dynamic Programming.” Selected paper, Western Agricultural Economics Association (WAEA) meeting, Banff, Alberta, Canada, June 29-July 1, 2011

J.Cho, **S.C. Park**, and S. Bevers. “An Economic Performance Analysis of the Beef Cow-herd Enterprise Using a Stochastic Frontier Function.” Selected paper, Southern Agricultural Economics Association (SAEA) meeting, Corpus Christi, Texas, February 6-8, 2011.

DeLaune, P.B., J.W. Sij, **S. C. Park**, and D. Jones. 2011. "Impact of Tillage Treatments Across Subsurface Drip Irrigation Levels in the Texas Rolling Plains." 2011 Cotton Beltwide Meetings. Atlanta, GA January 4-7. 2011.

S.C. Park, R.Woodward, J. Hattey and A. Stoecker. "Optimal Nitrogen Application Strategies: Stochastic Dynamic Approach." Poster Presentation, Agricultural and Applied Economic Association (AAEA) meeting, Denver, Colorado, July 25-27 2010.

S.C. Park, C. Phetcharat, A. Stoecker, and J. A. Hattey. 2010. "Optimal Application of Swine Effluent under Stochastic Weather Conditions in the Texas and Oklahoma Panhandles." Selected paper, Southern Agricultural Economics Association (SAEA) meeting, Orlando, Florida, February 7-9, 2010.

P. DeLaune, J.Sij, and **S.C. Park**. "Impact of Tillage, Water Management, and Well Water Nitrate on Subsurface Drip Irrigated Cotton Production." The Cotton Soil Management and Plant Nutrition Conference, New Orleans, LA, January 4-7, 2010.

S.C. Park , F. Bretz, S. Amosson, P. Warminski, T. Marek. 2010. "Economic Analysis of Manure Harvesting Equipment in Feedyards for Dust Control." In: Jason Cleere. Eds., 56th Texas A&M Beef Cattle Short Course, College Station, TX, August 2-4, 2010.

S.C. Park , A. Stoecker, J. A. Hattey, and J. C. Turner. 2007 "Long-Term Profitability of Animal Manure Using Optimal Nitrogen Application Rate." Selected paper, Southern Agricultural Economics Association (SAEA) meeting, Mobile, Alabama, February 2007.

Almas, Lal K. Colette, W. Arden, and **S.C. Park**, 2006. "Economic Optimization of Groundwater Resources in the Texas Panhandle" Selected paper, Southern Agricultural Economics Association (SAEA) meeting, Orlando, Florida, February 2006.

Almas, L. K., W.A. Colette, and **S.C. Park**. 2004. "Water Use of Irrigated Agriculture and Methodology for Water Demand Projection: A Comparison among Selected States." In: Rainwater K. A and Zobeck, T.M. eds., 2004 High Plains Groundwater Resources: Challenge and Opportunities, Conference Proceedings Texas Tech University Water Resources Center, Lubbock, TX.

INVITED PRESENTATION AND SEMINARS

S.C. Park. "Sustainable Integrated Practices under Climate Change Impacts in the Southern Great Plains agriculture in U.S.A", Daegu-Kyungpook Institute, South Korea (July, 2011); Kyungpook National University, Department of Economics, South Korea (July, 2011); Chonbuk National University, Department of Agricultural Economics, South Korea (July, 2011); Korean Rural Economic Institute, South Korea (July, 2011).

S.C. Park. "Economic Analysis of Manure Harvesting Equipment Utilized in Feedyards for Dust Control." Texas AgriLife Research Monthly Seminar, Vernon, Texas (June, 2011).

S.C. Park. “Economic Profitability of Sustained Application of Swine Lagoon Effluent and Beef Feedlot Manure Relative to Anhydrous Ammonia in the Oklahoma Panhandle.” Vernon Lions Club, Vernon, TX (March, 2011).

S.C. Park , J. Vitale, J. C. Turner, J. Hattey, and A. Stoecker. 2009. “Economic Effect on Oklahoma Panhandle Maize with Different N Sources and Rates.” Submitted paper proposal, 20th Annual Research Symposium, Oklahoma State University, Stillwater, OK. February 2009.

S.C. Park , A. Stoecker, J. A. Hattey, and J. C. Turner. 2007. “Economic Feasibility of Animal Manure as a Substitute for Commercial Fertilizer.” Submitted paper proposal, 18th Annual Research Symposium, Oklahoma State University, Stillwater, OK. February 2007.

GRANTS, CONTRACT, AND OTHER FUNDING ACTIVITIES (7 grants and contracts, total \$478,087; 2009-2011)

N. Rajan, S. Ale, P. B. DeLaune, T. Baughman, **S.C. Park**, B. Bean, Q. Xue and S. Maas. 2011. “Development and evaluation of technologies for improving crop production and formulating decision management tools.” Texas AgriLife Cropping Systems Initiative. Sep. 2011-Aug. 2013. (co-principal investigator, \$300,000).

P.B. DeLaune, **S.C. Park**, and N. Rajan. 2011. “Tillage Effects on Cotton Production in Dryland and Irrigated Production Systems of the Rolling Plains.” Texas State Support Committee of Cotton Inc. Jan-Dec. 2012. (co-principal investigator, \$19,000)

N. Rajan, S. Mass, P. DeLaune, and **S.C. Park**. 2011 “On-Farm Evaluation of Irrigation Management Options for Corn in the Texas High Plains.” Texas Corn Producers Board. Jan-Dec. 2011 (co-principal investigator, \$11,000).

P.B. DeLaune, **S.C. Park**, and N. Rajan. 2010. “Tillage Effects on Cotton Production in Dryland and Irrigated Production Systems of the Rolling Plains.” Texas State Support Committee of Cotton Inc. Jan-Dec. 2011(co-principal investigator, \$19,000)

S.C. Park, S. Amosson, and B. McCarl. 2010 “Economic and Groundwater Use Implications of Bioenergy Feedstocks Production in the OAP Region.” Federal Ogallala Aquifer Program, Oct, 2010-Sep, 2012, Funded by (principal investigator, \$ 74,200).

S.C. Park and S. Amosson. 2010 “Economic Analysis of Abatement Measures.” May 2010-Dec.2011. Federal Air Quality Program: Reducing Emissions from Cattle Feedlots and Dairies. (principal investigator, \$28,170)

A. J. Roussel, J. B. Osterstock, G. T. Fosgate, and **S. C. Park**. 2010 “Economic outcomes associated with Mycobacterium Avium Subsp. Paratuberculosis Infection in Beef Herds”. The National Johne’s Disease Demonstration Herd Project. Jan-Dec. 2010 (co-principal investigator, \$26,717).

S.C. Park. “Economic analysis to develop sustainable integrated agricultural practices and mitigate climate change impacts in the Southern Great Plains agriculture.” September 2009-Present, CRIS/HATCH Project, TEX093967, United States Department of Agriculture.

DeLaune, P.B., **S.C. Park**, S. Feagley, D.H. Pote, and J.L. Lemunyon. 2011. “Improving Environmental Quality and Crop Production with Innovative Subsurface Banding for Dry Poultry Manure.” USDA-NIFA. \$499,251 (**Currently under review**).

GRADUATE STUDENT SUPERVISION AND COMMITTEES

Gary Marek (Ph.D.), Agricultural Sciences, West Texas A&M University (Committee member), September 2009. Economic implication of Bio-ethanol Production

Bikash Bhattarai (Ph.D.), Biomedical Sciences, Texas A&M University (Committee Member), January 2010, Economics of the Johne’s disease Control

Weiwei Wang (Ph.D.), Agricultural Economics, Texas A&M University (Committee Member), October 2010, Groundwater Planning

Chin-Hsien Yu (Ph.D.), Agricultural Economics, Texas A&M University (Committee Member), November 2010, Feedlot Emission Control

RESEARCH ASSOCIATE

Dr. Jaesung Cho (Post-Doctoral Research Associate), Texas AgriLife Research-Vernon (Advisor), Woody Bioenergy and Sustainable Rangeland Management

PROFESSIONAL ASSOCIATIONS AND MEMBERSHIPS

American Agricultural Economic Association (AAEA), 2008- Present

Southern Agricultural Economic Association (SAEA), 2007-Present

Agricultural Economics Graduate Student Association, OSU, IT coordinator, 2006-08;

The Honor Society for International Scholars Phi Beta Delta, April 2005

Toastmasters International 2004-2005, 2008- Present

JOURNAL REVIEWER AND CONFERENCE REFEREE

Journal of Agricultural and Applied Economics

Agronomy Journal

Sustainability

PROFESSIONAL AND DEPARTMENTAL SERVICE

Southern Agricultural Economic Association Meeting Abstract Review 2010-2011

Texas AgriLife Vernon Center Coordinating Committee, September 2009 – Present

HONORS AND AWARDS

Graduate Assistantship, Oklahoma State University, 2005-2008.
Graduate School Fellowship, West Texas A&M University, 2003- 2005.
Undergraduate Scholarship, Kyungpook National University, 1995-1999.
ARCOM (Army Commendation Medal from U.S. Army) November 1995

OTHER SKILLS AND LANGUAGES

Proficient with various statistical, mathematical, spatial and database packages, including SAS, STATA, ArcGIS, GAMS, Maple, MS Excel, and MS Access.
Languages : English and Korean

REFERENCES

Dr. Art Stoecker

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Department of Agricultural Economics
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Dr. Wade Brorsen

Regents Professor
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Dr. Jeffory A. Hattey

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Environmental Sciences.
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