
Purdue Center of Economic Education
425 W. State Street
West Lafayette, IN 47907
Phone: (765) 496 – 2596
Email: perkis@purdue.edu , Online: daveperkis.com

David F. Perkis
Krannert School of Management
Purdue University

Education

Ph.D.	Purdue University, Resource and Environmental Economics	2014
M.S.	Purdue University, Economics	2004
M.A.	University of Cincinnati, Applied Economics	2000
B.S.E.	University of Pennsylvania, Chemical Engineering	1991
	University of Pittsburgh, Secondary Mathematics Teaching (05 – 06)	

Awards and Honors

Economics, Research, and Education

12 published articles pre-Ph.D.	2014
Top Policy Maker Honor, “5 Students who are Policy Makers,” Purdue University	2011
Young Professional and Graduate Student Travel Grant, AAEA Annual Meeting	2009
Gamma Sigma Delta Honor Society for Agriculture, Purdue University	2007
Ross Fellowship, Krannert School of Management, Purdue University	2003-2004
Spanish Speaking Living Program, Modern Language House, University of Pennsylvania	1990-1991

Teaching

National Graduate Teaching Award, Agricultural and Applied Economics Association	2014
Outstanding Teaching Assistant (1 of 2), College of Agriculture, Purdue University	2014
Graduate Student Teaching Award of Merit, N American Colleges & Teachers of Agriculture	2014
Top Instructor, College of Agriculture, Graduate Excellence in Teaching, Purdue University	2009
CETA Teaching Award, Department of Agricultural Economics, Purdue University	2008

STEM

Recognition of Excellence Award, Praxis II college level mathematics (200/200)	2006
Tuition Scholarship, School of Education, University of Pittsburgh	2005-2006
Molstad Award (top senior design project), Chem. Eng., University of Pennsylvania	1991

Dissertation

Energy Production, Distribution, and Pollution Controls: Combining Engineering and Economic Analysis to Enhance Efficiency and Policy Design

Research Areas

Fields

Economic Education
Energy and resource economics
Environmental economics and sustainability
Public policy
Price controls in pollution markets
Trading behavior in markets

Methods

Experimental economics
Engineering-economic systems integration
Technology optimization w/linear programming
Global energy market modeling
Applied statistics
Student-focused learning

Professional Experience

Director, Purdue Center for Economic Education Department of Economics, Purdue University	2016 – present
Visiting Assistant Professor, Post-doc Department of Agricultural Economics, Purdue University	2014 – 2016
Lecturer and Research Assistant Department of Agricultural Economics, Purdue University	2012 – 2014
Graduate Assistant Department of Agricultural Economics, Purdue University	2006 – 2012
Teaching Internship, University of Pittsburgh Department of Mathematics, City Charter High School	2005 – 2006
Graduate Assistant, Krannert School of Management Department of Economics, Purdue University	2003 – 2004
Manager, Biostatistical and Computer Support Core Unit Injury Prevention Research Center, University of North Carolina – Chapel Hill	2002 – 2003
Faculty (Part-time), Economics University Transfer Program, Durham Technical Community College	2002
Research Associate (Data Analyst) Institute for Health Policy and Health Services Research, University of Cincinnati	1999 – 2001
Graduate Assistant Department of Economics, University of Cincinnati	1998 – 1999
Computer Consultant Professional Data Resources, Inc., Cincinnati, OH	1997 – 1998
Process Development Engineer R&D (US and International), The Procter & Gamble Co., Cincinnati, OH	1991 – 1996
Research Assistant (undergraduate) Department of Chemical Engineering, University of Pennsylvania	1990
Instructional Counselor Upward Bound program for college bound students, University of Pennsylvania	1989

Departmental/Extension/Community Service

- Author, Implementing Interactive Learning in Agricultural Economics Classrooms (2015), Purdue University
- Recorder, Emissions Trading Workshop (2010), Purdue Climate Change Research Center, Purdue University
- Vice President, Graduate Student Organization (2008), Dept. of Agricultural Economics, Purdue University
- Author, Ph.D. Curriculum Student Survey Report (2008), Dept. of Agricultural Economics, Purdue University
- Instructor, Top Farmer Crop Workshop (2008), Dept. of Agricultural Economics, Purdue University
- Organizer, AAEA Annual Meeting Departmental Presentations (2008), Dept. of Agricultural Economics, Purdue University
- Ph.D. Program Scope Committee – curriculum (2008), Dept. of Agricultural Economics, Purdue University
- Scope and Objectives Committee (2007), Department of Agricultural Economics, Purdue University
- Big Brother (92 – 95), City Cure Christian Ministry, Cincinnati, OH
- Volunteer Tutor (89 – 90), Upward Bound, University of Pennsylvania

Teaching and Academic Development

Instructor

Natural Resource and Environmental Economics
Introduction to Resource Economics and Environmental Policy (large section)
Introductory Macroeconomics (large sections)
Introductory Microeconomics for Food and Agribusiness (large sections)
Secondary Mathematics (Economics and Probability)
Secondary Honors Book Study: Gödel, Escher, Bach

Teaching Assistant

Principles of Microeconomics
Economic Data Analysis
Honors Economics

Student/Staff Management

Graduate teaching assistants (3) – Purdue University
Undergraduate teaching assistants (10) – Purdue University
Graduate research assistants (4) – University of North Carolina, Chapel Hill
Database programmer – University of North Carolina, Chapel Hill
Engineering technicians – Procter & Gamble

Professional Affiliations

Association of Environmental and Resource Economists
Agricultural & Applied Economics Association
 Teaching, Learning and Communications Section
 Institutional and Behavioral Economics Section
American Economic Association
National Association of Economic Educators

Personal

Native born US citizen
High proficiency (once fluent) in Spanish

Research Papers in Progress

Enhancing economic instruction using techniques from secondary mathematics education.

Using the Energy Technology Perspectives model to analyze energy and emissions policy.

Converting biomass to jet fuel: a spatial optimization model (under review).

Papers

Perkis, David F.; Timothy N. Cason and Wallace E. Tyner. 2016. "An Experimental Investigation of Hard and Soft Price Ceilings in Emissions Permit Markets," *Environmental and Resource Economics* 63(4):703-718.

Tyner, Wallace E., Farzad Taheripour and **David Perkins**. 2010. "Comparison of Fixed versus Variable Biofuels Incentives." *Energy Policy* 38(10):5530-5540.

Agrawal, Rakesh, Navneet R. Singh, Fabio H. Ribeiro, W. Nicholas Delgass, **David F. Perkins** and Wallace E. Tyner. 2009. "Synergy in the hybrid thermochemical-biological processes for liquid fuel production." *Computers & Chemical Engineering* 33(12):2012-2017.

Perkis, David F., Wallace E. Tyner, Paul Preckel and Sarah Brechbill. 2008. "Spatial Optimization and Economies of Scale for Cellulose to Ethanol Facilities in Indiana." In *Transition to a Bioeconomy: Risk, Infrastructure and Industry Evolution*. Farm Foundation conference. Berkeley, CA.

Agrawal, Rakesh, Navneet R. Singh, Fabio H. Ribeiro, W. Nicholas Delgass, **David F. Perkins** and Wallace E. Tyner. 2008. "Environmentally Friendly Energy Solutions." In *Foundations of Computer-Aided Process Operations (FOCAPO)*. Cambridge, MA.

Perkis, David F., Wallace E. Tyner and Rhys Dale. 2008. "Economic Analysis of a Modified Dry Grind Ethanol Process with Recycle of Pretreated and Enzymatically Hydrolyzed Distillers' Grains." *Bioresource Technology* 99(12):5243-5249.

Runyan, Carol W., Carri Casteel, **David Perkins**, Carla Black, Stephen W. Marshall, Renee M. Johnson, Tamera Coyne-Beasley, Anna E. Waller and Shankar Viswanathan. 2005. "Unintentional injuries in the home in the United States: Part I: Mortality." *American journal of preventive medicine* 28(1):73-79.

Runyan, Carol W., **David Perkins**, Stephen W. Marshall, Renee M. Johnson, Tamera Coyne-Beasley, Anna E. Waller, Carla Black and Lorena Baccaglini. 2005. "Unintentional injuries in the home in the United States: Part II: Morbidity." *American journal of preventive medicine* 28(1):80-87.

Coyne-Beasley, Tamera, Carol W. Runyan, Lorena Baccaglini, **David Perkins** and Renee M. Johnson. 2005. "Storage of poisonous substances and firearms in homes with young children visitors and older adults." *American journal of preventive medicine* 28(1):109-115.

Runyan, Carol W., Renee M. Johnson, Jingzhen Yang, Anna E. Waller, **David Perkins**, Stephen W. Marshall, Tamera Coyne-Beasley and Kara S. McGee. 2005. "Risk and protective factors for fires, burns, and carbon monoxide poisoning in U.S. households." *American journal of preventive medicine* 28(1):102-108.

Marshall, Stephen W., Carol W. Runyan, Jingzhen Yang, Tamera Coyne-Beasley, Anna E. Waller, Renee M. Johnson and **David Perkins**. 2005. "Prevalence of selected risk and protective factors for falls in the home." *American journal of preventive medicine* 28(1):95-101.

Pancioli, Arthur M., Mark J. Bullard, Mary E. Grulee, Edward C. Jauch and **David F. Perkis**. 2002. "Supplemental Oxygen Use in Ischemic Stroke Patients: Does Utilization Correspond to Need for Oxygen Therapy?" *Archives of internal medicine* 162(1):49-52.

Reports and Grants

Tyner, Wallace E., Sarah Brechbill and **David Perkis**. 2010. "Cellulosic Ethanol: Feedstocks, Conversion Technologies, Economics, and Policy Options." In CRS Report for Congress, Coordinator Randy Schnepf. Washington, DC: Congressional Research Service.

Tyner, Wallace E., Farzad Taheripour and **David Perkis**. 2009. "Impacts of Variable Biofuel Incentives Compared with Fixed Incentives." In Department of Agricultural Economics, ed. Purdue University. West Lafayette.

Runyan, Carol W., **David F. Perkis**, Stephen W. Marshall, Tamera Coyne-Beasley and Anna E. Waller. 2003. "State of Home Safety, Part II." Injury Prevention Center, University of North Carolina: Home Safety Council. (on grant)

Runyan, Carol W., Lorena Baccaglioni, Carla Black, Tamera Coyne-Beasley, Renee M. Johnson, Dan Macklin, Stephen W. Marshall, **David F. Perkis**, Anna E. Waller and Jingzhen Yang. 2002. "The State of Home Safety in America." Chapel Hill, NC: Injury Prevention Research Center, University of North Carolina.

Chenier, Thomas C. and **David F. Perkis**. 2001. "Explaining Variation in Insurance Status." Institute for Health Policy and Health Services Research, University of Cincinnati: Ohio Department of Health, Center for Public Health Data and Statistics. (on grant)

Engineering Patents

Angell, Adrian J. W., Athanasios Surutzidis, Frank A. Kvietok and **David F. Perkis**. 1997. "Process for Producing a Particulate Laundry Additive Composition for Perfume Delivery." United States: The Procter & Gamble Company.

Research Presentations

Perkis, David F. [based on work with Cason, TN and Tyner, WE. 2012. "An Experimental Investigation of Hard and Soft Price Ceilings in Emissions Permit Markets," *Agricultural and Applied Economics Association, 2012 Annual Meeting*. Seattle, Washington.

Perkis, David F. 2011. "Biofuels Policy Options to be Evaluated in 2011." In Purdue University - Indiana Farm Bureau Supper Series. Zionsville, IN.

Perkis, David. [based on work with Tyner, W. and Taheripour, F.] 2010. "A Win-Win Biofuel Policy: Reducing Firm Risks and Government Costs with Variable Subsidies." In *Frontiers in Bioenergy Symposium*. Purdue University.

Perkis, David F. [based on work with Tyner, W., Preckel, P. and Brechbill, S.] 2008. "Spatial Optimization and Economies of Scale for Cellulose to Ethanol Facilities in Indiana." In *Second Generation Biofuels Symposium*. Purdue University.

Perkis, David F. [based on work with Tyner, W. and Dale, R.] 2007. "Economic Analysis of a Modified Dry Grind Ethanol Process with Recycle of Pretreated and Enzymatically Hydrolyzed Distiller's Grains." In *Biobased Industry Outlook Conference*. Iowa State University.

Perkis, David F. [based on work with Mills, J. and Zandvakili, S.] 2000. "Statistical Inference for Measures of Inequality with SAS Implementations: a bootstrap procedure." In *Graduate Research/Scholarship Forum*. University of Cincinnati.

Pedagogical Presentations

Perkis, David F. 2015. "Enhancing Economic Instruction Using Techniques from Secondary Mathematics Education" In 54th Annual Financial Literacy and Economic Education Conference. St. Petersburg, FL.

Perkis, David F. 2014. "Teaching Tips from AAEA Award Winners." In Agricultural and Applied Economics Association, Annual Meeting. Minneapolis, MN.

Perkis, David F. 2009. "Interactive Learning Models and the Applied Economics Classroom – Lessons from the Mathematics Education Profession." In Agricultural and Applied Economics Association, Annual Meeting. Milwaukee, WI.

Perkis, David F. 2008. "Utilizing Experimental Economic Techniques in the Classroom." In GSO Seminar Series. Purdue University, Department of Agricultural Economics.

Other Research

Computer Model: **Perkis, David F.**, Wallace E. Tyner and Rhys Dale. 2008. "Process Engineering Model of a Corn to Ethanol Dry Mill Plant." West Lafayette, IN: Purdue University. Model located online:

<http://web.ics.purdue.edu/~perkis/DMMModel-public.xls>

Paper Presentation: Holzer, Cynthia, Gregg Warshaw, **David F. Perkins**, Richard W. Hornung and Joel Tsevat. 2001. "Views on Preventive Health Care for Patients with Alzheimer's Disease." The annual meeting of the American Geriatrics Society. Chicago, IL.

Working Paper: Mills, Jeffrey A., Sourushe Zandvakili and **David F. Perkins**. 2000. "A Statistical Inference for Measures of Inequality with SAS Implementations." Cincinnati, OH: Department of Economics, University of Cincinnati.