

---

Purdue Center of Economic Education  
403 W. State Street  
West Lafayette, IN 47907  
Phone: (765) 496 – 2596  
Email: [perkis@purdue.edu](mailto:perkis@purdue.edu) , Online: [daveperkis.com](http://daveperkis.com), [DrDave.net](http://DrDave.net)

---

**David F. Perkis**  
**Krannert School of Management**  
**Purdue University**

---

## Professional Summary

An award-winning teacher, researcher, and policy analyst with proven experience in leading research teams in both academia and industry. A focus on the fields of economic education, energy & environmental economics, and experimental economics with a passion for and proven track record in:

- Educating students using experiential and project-based learning,
- Creating sustainable systems in economic policy, education, and engineering, and
- Combining economics and STEM fields in research, engagement, and teaching practices.

## 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)	

## Dissertation

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

## Highlights and Awards

### Economics, Research, and Education

12 published articles pre-Ph.D.  
Top Policy Maker Honor, “5 Students who are Policy Makers,” Purdue University  
Gamma Sigma Delta Honor Society for Agriculture, Purdue University  
Ross Fellowship, Krannert School of Management, Purdue University  
Spanish Speaking Living Program, Modern Language House, University of Pennsylvania

### Teaching

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

### STEM

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

## Professional Experience

Currently directing the **Purdue Center for Economic Education**, a soft-money center in the Department of Economics, Krannert School of Management at Purdue University. Have achieved a positive revenue flow over the first two years of leadership while developing a focus in STEM, entrepreneurship, and experiential learning. Have significantly expanded efforts in engagement, marketing, and fundraising while building upon the Center's strong tradition in research and teaching.

### **Purdue University**

Director, Purdue Center for Economic Education	2016 – present
Visiting Assistant Professor, Post-doc, Agricultural Economics	2014 – 2016
Lecturer and Research Assistant, Agricultural Economics	2012 – 2014
Graduate Assistant, Agricultural Economics	2006 – 2012

### **City Charter High School**

Teaching Intern, Department of Mathematics	2005 – 2006
--	-------------

### **Purdue University**

Graduate Assistant, Krannert School of Management	2003 – 2004
---	-------------

### **University of North Carolina Injury Prevention Research Center**

Manager, Biostatistical and Computer Support Core Unit	2002 – 2003
--	-------------

### **Durham Technical Community College**

Faculty (Part-time), Economics	2002
--------------------------------	------

### **University of Cincinnati**

Research Associate, Institute for Health Policy and Health Services Research	1999 – 2001
Graduate Assistant, Economics	1998 – 1999

### **Professional Data Resources**

Computer Consultant	1997 – 1998
---------------------	-------------

### **Procter & Gamble**

Process Development Engineer, Research & Development	1991 – 1996
--	-------------

### **University of Pennsylvania**

Undergraduate Research Assistant, Department of Chemical Engineering	1990
Instructional Counselor, Upward Bound	1989

## Research Areas

### **Fields**

- Economic Education
- STEM and economic education
- Experiential learning models
- Energy, the environment, and sustainability
- Public policy

### **Methods**

- Experimental economic markets
- Classroom experiments
- Math education learning models
- Engineering-economic systems integration
- Technology optimization w/GAMS programming
- Applied statistics

## **University/Engagement/Community Service**

- Instructor, Classroom Business Enterprise, West Lafayette, South Bend, and Indianapolis (2017)
- Instructor, Classroom Experimental Economics for Secondary Teachers, West Lafayette (2017)
- 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 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**

Have had the pleasure of managing many excellent PhD, masters, and undergraduate students, as well professional staff in technology and administration.

## **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 in Progress

Evidence of computer visualization tools enhancing career education learning.

Enhancing economic instruction using techniques from secondary mathematics education.

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

## Papers

Li, Mingran, Wenjie Wu, Ruimin Gao, Zheng Zhao, Yingjie Chen, **David Perkis**, Kevin Mumford and Timothy Bond. (In revision). "CareerMapping: Hierarchical, Multidimensional Data Visualization of Career Pathway Exploration"

**Perkis, David F.** and Wallace E. Tyner. 2018. "Developing a cellulosic aviation biofuel industry in Indiana: A market and logistics analysis" *Energy* 142(1):793-802.

**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 Perkis**. 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. Perkis** 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. Perkis** 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 Perkis**, 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 Perkis**, 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 Perkis** 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 Perkis**, 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 Perkis**. 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

**Perkis, David F.**, Jacob Elich and Conner Smith. 2017. "Economic Indicators Report." In Purdue Center for Economic Education, Krannert School of Management, Purdue University. West Lafayette.

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 Baccaglini, 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.

## Professional Presentations

**Perkis, David F.** 2017. "Using Economics to Teach Mathematics" In 56<sup>th</sup> Annual Financial Literacy and Economic Education Conference. New York, NY.

**Perkis, David F.** 2017. "The Classroom Business Enterprise Program" In Smart Indiana Economic Education & Financial Literacy Conference. Indianapolis, IN.

**Perkis, David F.** 2015. "Enhancing Economic Instruction Using Techniques from Secondary Mathematics Education" In 54<sup>th</sup> 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.** [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.** 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.** [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.** 2008. "Utilizing Experimental Economic Techniques in the Classroom." In *GSO Seminar Series*. Purdue University, Department of Agricultural Economics.

**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.

## 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. Perkis**, 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. Perkis**. 2000. "A Statistical Inference for Measures of Inequality with SAS Implementations." Cincinnati, OH: Department of Economics, University of Cincinnati.