

## KAREL JANDA - CV

### Address:

Department of Microeconomics and Mathematical Methods,  
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Citizenship: Czech Republic  
Family Status: Married, with 3 children

## WORK EXPERIENCE

*Department of Microeconomics and Mathematical Methods, Institute of Economic Studies, Faculty of Social Sciences, Charles University, Prague.*

Chairman of the Department: March 1, 2011 - present.

Senior Associate Dean; February 15, 2010 - June 30, 2010.

Professor; March 1, 2009 - present.

Associate Professor; February 1, 2005 - February 28, 2009.

Assistant Professor; August 1, 2003 - January 31, 2005.

*Department of Banking and Insurance, Faculty of Finance and Accounting, Prague University of Economics and Business*

Professor: March 1, 2009 - present.

Associate Professor; February 1, 2005 - February 28, 2009.

Assistant Professor; September 1, 2003 - January 31, 2005.

*CERGE-EI (Center for Economic Research and Graduate Education of Charles University - Economic Institute of Academy of Sciences of the Czech Republic), Prague.*

Affiliate Fellow: September 1, 2008 - December 31, 2014.

Researcher and Lecturer; September 1, 1993 - August 31, 1998; May 5, 2000 - December 31, 2000; January 16, 2006 - August 11, 2006.

*University of Iowa.*

Research and Teaching Assistant; September 1, 1998 - July 31, 2003.

*Research Institute of Agricultural Economics, Prague.*

Researcher; October 1, 1989 - August 31, 1998.

*Department of Agricultural and Resource Economics, University of California, Berkeley.*

Junior Specialist; August 19, 1994 - June 20, 1995

*National Corporate Headquarters, Food manufacturing corporation "Cokoladovny", Prague.*

Planner; September 1, 1988 - September 30, 1989.

## TEACHING EXPERIENCE

Teacher for graduate Ph.D. course *Applied Banking and Finance*, Charles University, Fall 2019, 2020, 2021, 2022 Spring 2020, 2021, 2022, 2023.

Teacher for graduate Ph.D. course *Economics and Law in Banking and Finance*, Charles University, Fall 2004, 2005, 2006, 2007, 2008, 2009, 2011, 2012, 2013, 2014, 2015, 2017, 2018, Spring 2005, 2006, 2007, 2008, 2009, 2010, 2012, 2013, 2014, 2015, 2016, 2018, 2019.

Teacher for graduate MA course *Microeconomics of Banking*, Charles University, Spring 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2012, 2013, 2014, 2015, 2016, 2018, 2019, 2020, 2021, 2022, 2023, Prague University of Economics and Business, Spring 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2012, 2013, 2015, 2016, Fall 2004, 2005, 2006, 2007, 2008, 2009, 2011.

Teacher for graduate Ph.D. course *Microeconomics*, Charles University, Fall 2003, Spring 2004.

Teacher for graduate MA course *Microeconomics Advanced I*, Charles University, Fall 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2011, 2012, 2013, 2014, 2015, 2017, 2018, 2019, 2020, 2021, 2022.

Teacher for graduate MA course *Microeconomics Advanced II – Game Theory*, Charles University, Spring 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2012, 2013, 2014, 2015, 2016, 2018, 2019, 2020, 2021, 2022, 2023.

Teacher for graduate MA course *Economics of Incentives and Contracts*, Charles University, Fall 2003, 2004, 2005, 2006, 2007, 2008, 2009.

Teacher for graduate MA course *Financial Contracting*, Prague University of Economics and Business, Fall 2004, 2005, 2006, 2007, 2008, 2009, 2011, 2012, 2013, 2014, 2015, 2018, 2019, 2021, 2022, Spring 2005, 2006, 2007, 2008, 2009, 2010.

Teacher for graduate MA course *Asset Management*, Prague University of Economics and Business, Summer 2005, 2006, 2008, 2009, 2011.

Co-teacher for graduate MA course *International Investment* Prague University of Economics and Business, Spring 2004.

Teacher for undergraduate course *Banking and Financial Institutions*, Prague University of Economics and Business, Fall 2015, 2017, 2018, 2019, 2020, 2021, 2022, Spring 2016, 2018, 2019, 2020, 2021, 2022, 2023.

Teacher for undergraduate course *Banking Products and Operations*, Prague University of Economics and Business, Fall 2011, 2012, 2013, 2014, 2015, Spring 2012, 2013, 2014, 2015, 2016.

Teacher for undergraduate course *Financial Theory, Policies, and Institutions*, Prague University of Economics and Business, Spring 2006, 2008, 2009, 2010, Fall 2007, 2008, 2009.

Teacher for undergraduate course *Money, Banking, and Financial Markets*, Prague University of Economics and Business, Fall 2003, 2004, 2005, 2006, Spring 2004, 2005.

Teacher for undergraduate course *Banking Seminar*, Prague University of Economics and Business, Fall 2003, 2004, 2005, 2007 Spring 2004, 2005, 2006, 2007, 2008.

Teacher for graduate MA course *Banking Seminar*, Prague University of Economics and Business, Fall 2003, 2012, 2013, Spring 2009, 2010, 2012, 2013, 2014.

Teacher for graduate Ph.D. course *Microeconomics II*, CERGE-EI, Spring 2006.

Teacher for graduate Ph.D. course *Microeconomics I*, CERGE-EI, Fall 2000.

Teacher for graduate Ph.D. course *Microeconomics III*, CERGE-EI, Summer 2000.

Teacher for graduate Ph.D. course *Mathematics - Summer Semester*, CERGE-EI, Summer 1999.

Teaching assistant for undergraduate course *06E-071 Statistics for Strategy Problems*, University of Iowa, Spring 1999, 2000, 2001, 2002, 2003, Fall 1999, 2001, 2002.  
Teacher for graduate Ph.D. course *Industrial Organization II*, CERGE-EI, Spring 1998.

Teacher for graduate MA course *Industrial Organization*, Charles University, Fall 1997.

Teacher for graduate Ph.D. course *Microeconomics - Summer Semester*, CERGE-EI, Summer 1996, 1997, 1998.

Co-teacher for graduate Ph.D. course *Econometrics II*, CERGE-EI, Summer 1997.

Teaching assistant for graduate Ph.D. course *Mathematical Statistics*, CERGE-EI, Fall 1995.

Teaching assistant for graduate Ph.D. course *Industrial Organization*, CERGE-EI, Fall 1993.

### VISITING SCHOLAR

*Department of Agricultural and Resource Economics, University of California, Berkeley.* May 2, 2023 - September 25, 2024.

*University of Oxford,* May 12 - September 19, 2022.

*Australian National University, Canberra,* April 26 - September 1, 2018, November 26, 2018 - February 9, 2019.

*Department of Economics, McGill University, Montreal,* May 3, 2016 - September 26, 2017.

*Australian National University, Canberra,* April 21 - September 19, 2015.

*New Economic School, Moscow,* April 18 - September 22, 2014.

*Toulouse School of Economics,* May 24 - September 22, 2013.

*Australian National University, Canberra,* April 30 - September 13, 2012.

*Department of Agricultural and Resource Economics, University of California, Berkeley.* May 19, 2010 - September 24, 2011.

*Rochester Institute of Technology,* January 15 - January 30, 2005.

*International Center for Land Policy Studies and Training, Taiwan.* March 3 - April 23, 1997.

*Department of Agricultural and Resource Economics, University of California, Berkeley.* August 19, 1994 - June 20, 1995.

*Department of Applied Economics, University of Cambridge.* June 6, 1994 - August 16, 1994.

*Georgetown University, Washington D.C.* August 19, 1992 - August 31, 1993.

### VISITING STUDENT

*Moscow State University, Soviet Union.* May, June 1987.

### EDUCATION

**Graduate:** Department of Economics, University of Iowa, 1998 - 2003.

M.A. degree, 2001.

Ph.D degree, May 2003.

The Center For Economic Research And Graduate Education (CERGE), Charles University. 1992-1996.

Dr. degree, 1996.

**Undergraduate:** Prague School of Economics, Faculty of General Economics. 1984-1988.

Ing. degree, 1988.

**High School:**Gymnazium J.K.Tyla Hradec Kralove. Specialization on mathematics and physics. 1980-84.

## LANGUAGES

Czech - native language

Slovak - passive knowledge

English - active knowledge

Russian - active knowledge

Polish - passive knowledge

French - very basic elementary knowledge. I am in the process of learning this language.

## RESEARCH INTERESTS

I am mainly interested in microeconomics and applied econometrics in the following areas: Microeconomics of Banking, Natural Resources and Agricultural Economics, Economics of Transition and Development.

## WORK IN PROGRESS

Stochastic Economic Feasibility Analysis of Photovoltaic Distributed Generation and Battery Energy Storage Systems Under the Brazilian Economic Regulation

Financial Multi-Objective Optimization for Hybrid Residential Distributed Generation Systems Using Battery Storage

Decarbonising Chinas Economy: The Role of Renewable Energy and Technology Innovation.

Green Bonds

Bond Credit Rating

Impact of Ethanol on U.S. Gasoline Prices

Graph Theory Based Analysis of Biofuels Related Financial and Commodity Networks

Financial Analysis of Cryptocurrencies with Machine Learning

Multi-factor Models of Cryptocurrencies

## PAPERS PUBLISHED IN REFEREED JOURNALS

**Alekseev, Oleg; Janda, Karel; Petit, Mathieu and Zilberman David** "Return and Volatility Spillovers between the Raw Material and Electric Vehicles Markets." *Energy Economic*, 2024, vol. 137, article number 107808.  
<https://doi.org/10.1016/j.eneco.2024.107808>

- Turdaliev, Salim and Janda, Karel.** "Increasing Block Tariff Electricity Pricing and Propensity to Purchase Dirty Fuels: Empirical Evidence from a Natural Experiment." *Eastern European Economics* 2024, 62(4), pp. 429-449. <https://doi.org/10.1080/00128775.2023.2165948>
- Oliveira, Denner dos Santos; Gomes, Gabriel C.; Rocha, Luiz Celio S.; Rotella, Junior Paulo; Aquila, Giancarlo; Bernardes, Pedro A. C. de Sousa and Janda, Karel.** "Energy and Stochastic Economic Assessment for Distributed Power Generation from Manipueira Biogas." *Environmental Technology* 2024, 45(8), pp. 1608-1621. <https://doi.org/10.1080/09593330.2022.2148569>
- Hadi Heidary and Karel Janda.** "The Life Cycle Assessment and Merit Order Effect of Green Hydrogen Fueled Gas Turbine Power Plant." *Arabian Journal for Science and Engineering* 2024, vol. 49, pp. 1855-1868. <https://doi.org/10.1007/s13369-023-07966-8>
- de Doile, Gabriel N. D.; Rotella, Junior Paulo; Rocha, Luiz Celio S.; Janda, Karel; Peruchi, Rogerio S.; Aquila, Giancarlo and Balestrassi, Pedro Paulo.** "Impacts of Economic Regulation on Photovoltaic Distributed Generation with Battery Energy Storage Systems." *Journal of Energy Storage* 2023, vol. 72, Part B, November 2023, article number 108382. <https://doi.org/10.1016/j.est.2023.108382>
- Rotella, Junior Paulo; Rocha, Luiz Celio S.; Peruchi, Rogerio S.; Aquila, Giancarlo; Pamplona, Edson de Oliveira; Janda, Karel and Pires, Arthur.** "Robust Portfolio Optimization: A Stochastic Evaluation of Worst-Case Scenarios." *Economic Research* 2023, 36 (3), article number 2165525. <https://doi.org/10.1080/1331677X.2023.2165525>
- Pires, Arthur Leandro Guerra; Rotella, Junior Paulo; Rocha, Luiz Celio S.; Peruchi, Rogerio S.; Janda, Karel and Miranda, Rafael de Carvalho.** "Environmental and Financial Multi-Objective Optimization: Hybrid Wind-Photovoltaic Generation with Battery Energy Storage Systems." *Journal of Energy Storage* 2023, vol. 66, article number 107425. <https://doi.org/10.1016/j.est.2023.107425>
- Janda, Karel; Michalikova, Eva; Rocha, Luiz Celio S.; Rotella, Junior Paulo; Schererova, Barbora and Zilberman, David.** "Review of Impact of Bio-fuels on U.S. Retail Gasoline Prices." *Energies* 2023, 16 (1), article number 428. <https://doi.org/10.3390/en16010428>
- Janda, Karel; Kocenda, Evzen; Kortusova, Anna and Zhang, Binyi.** "Estimation of Green Bond Premiums on the Chinese Secondary Market." *Politicka Ekonomie* 2022, 70 (6), pp. 684-710. <https://doi.org/10.18267/j.polek.1363>
- Janda, Karel and Kravtsov, Oleg.** "Regulatory Stress Tests and Bank Responses: Heterogeneous Treatment Effect in Dynamic Settings." *International Journal of Central Banking* 2022, 18 (2) pp. 1-49.
- de Doile, Gabriel N. D.; Rotella, Junior Paulo; Rocha, Luiz Celio S.; Janda, Karel; Aquila, Giancarlo; Peruchi, Rogerio S. and Balestrassi, Pedro Paulo.** "Feasibility of Hybrid Wind and Photovoltaic Distributed Generation and Battery Energy Storage Systems Under Techno-Economic Regulation." *Renewable Energy* 2022, vol. 195, pp. 1310-1323. <https://doi.org/10.1016/j.renene.2022.06.121>

- Rocha, Luiz Celio S.; Rotella, Junior Paulo; Aquila, Giancarlo and Janda, Karel.** "Utility-Scale Energy Storage Systems: World Conditions and Brazilian Perspectives." *Journal of Energy Storage* 2022, vol. 52, part C, article number 105066. <https://doi.org/10.1016/j.est.2022.105066>
- Janda, Karel; Kristoufek, Ladislav and Zhang, Binyi.** "Return and Volatility Spillovers between Chinese and U.S. Clean Energy Related Stocks." *Energy Economics* 2022, vol. 108, article number 105911. <https://doi.org/10.1016/j.eneco.2022.105911>
- Janda, Karel; Kristoufek, Ladislav; Schererova, Barbora and Zilberman, David.** "Price Transmission in Biofuels-Related Global Agricultural Networks." *Agricultural Economics* 2021, 67 (10), pp. 399-408. <https://doi.org/10.17221/223/2021-AGRICECON>
- de Doile, Gabriel N. D.; Rotella, Junior Paulo; Rocha, Luiz Celio S.; Carneiro, Priscila F. G.; Peruchi, Rogerio S.; Janda, Karel and Aquila, Giancarlo.** "Impact of Regulatory Changes on Economic Feasibility of Distributed Generation Solar Units in Brazil." *Sustainable Energy Technologies and Assessments* 2021, vol. 48, article number 101660. <https://doi.org/10.1016/j.seta.2021.101660>
- de Doile, Gabriel N. D.; Rotella, Junior Paulo; Rocha, Luiz Celio S.; Bolis, Ivan; Janda, Karel and Coelho, Junior Luiz Moreira.** "Hybrid Wind and Solar Photovoltaic Generation with Energy Storage Systems: A Systematic Literature Review and Contributions to Technical and Economic Regulations." *Energies* 2021, 14 (20), article number 6521. <https://doi.org/10.3390/en14206521>
- Rotella, Junior Paulo; Rocha, Luiz Celio S.; Morioka, Sandra Naomi; Bolis, Ivan; Chicco, Gianfranco; Mazza, Andrea and Janda, Karel.** "Economic Analysis of the Investments in Battery Energy Storage Systems: Review and Current Perspectives." *Energies* 2021, 14 (9), article number 2503. <https://doi.org/10.3390/en14092503>
- de Doile, Gabriel N. D.; Rotella, Junior Paulo; Carneiro, Priscila F. G.; Peruchi, Rogerio S.; Rocha, Luiz Celio S.; Janda, Karel and Aquila, Giancarlo.** "Economic Feasibility of Photovoltaic Micro-Installations Connected to the Brazilian Distribution Grid in Light of Proposed Changes to Regulations." *Energies* 2021, 14 (6), article number 1529. <https://doi.org/10.3390/en14061529>
- Rocha, Luiz Celio S.; Rocha, Mariana S.; Rotella, Junior Paulo; Aquila, Giancarlo; Peruchi, Rogerio S.; Janda, Karel and Azevedo, Romulo O.** "Robust Multi-objective Optimization for Response Surface Models Applied to Direct Low-value Natural Gas Conversion Processes." *Entropy* 2021, 23 (2), article number 248. <https://doi.org/10.3390/e23020248>
- Janda, Karel and Kourilek, Jakub.** "Residual Shape Risk on Natural Gas Market with Mixed Jump Diffusion Price Dynamics." *Energy Economics* 2020, vol. 85, article number 104465.
- Janda, Karel and Kristoufek, Ladislav.** "The Relationship between Fuel and Food Prices: Methods and Outcomes." *Annual Review of Resource Economics* 2019, vol. 11, pp. 195-216.

- Filip, Ondrej; Janda, Karel; Kristoufek, Ladislav and Zilberman, David.** "Food Versus Fuel: An Updated and Expanded Evidence." *Energy Economics* 2019, vol. 82, pp. 152-166.
- Janda, Karel; Lajksnerova, Zuzana and Mikolasek, Jakub.** "A General Equilibrium Model of Optimal Alcohol Taxation in the Czech Republic." *Prague Economic Papers* 2019, 28 (5), pp. 589-611.
- Janda, Karel.** "Earnings Stability and Peer Company Selection for Multiple Based Indirect Valuation." *Czech Journal of Economics and Finance* 2019, 69 (1), pp. 37-75.
- Janda, Karel and Strobl, Martin.** "Smoking Czechs: Modelling Tobacco Consumption and Taxation." *Prague Economic Papers* 2019, 28 (1), pp. 3-29.
- Janda, Karel and Kravtsov, Oleg.** "Basel III Leverage and Capital Ratio over the Economic Cycle in the Czech Republic and its Comparison with the CEE Region." *European Financial and Accounting Journal* 2018, 18(4), pp. 5-24.
- Janda, Karel.** "Slovak Electricity Market and the Price Merit Order Effect of Photovoltaics." *Energy Policy* 2018, vol. 122, pp. 551-562.
- Malek, Jan; Recka, Lukas and Janda, Karel.** "Impact of German Energiewende on Transmission Lines in the Central European Region." *Energy Efficiency* 2018, 11 (3), pp. 683-700.
- Filip, Ondrej; Janda, Karel and Kristoufek, Ladislav.** "Ceny biopaliv a souvisejících komodit: analýza s použitím metod minimální kostry grafu a hierarchických stromů." (In Czech.) ("Prices of Biofuels and Related Commodities: an Analysis Using Methods of Minimum Spanning Tree and Hierarchical Tree.") *Politická Ekonomie* 2018, 66 (2), pp. 64-86.
- Janda, Karel; Malek, Jan and Recka, Lukas.** "Vliv obnovitelných zdrojů na českou soustavu přenosu elektriny." (In Czech.) ("The Impact of Renewable Energy Sources on the Czech Electricity Transmission System.") *Politická Ekonomie* 2017, 65 (6), pp. 728-750.
- Moreira, David and Janda, Karel.** "Measuring the M&A Value of Control and Synergy in Central and Eastern European Transition Economies with the Case of Avast - AVG Acquisition." *European Financial and Accounting Journal* 2017, 12 (3), pp. 155-168.
- Janda, Karel; Malek, Jan and Recka, Lukas.** "Influence of Renewable Energy Sources on Transmission Networks in Central Europe." *Energy Policy* 2017, vol. 108, pp. 524-537.
- Janda, Karel; Kourilek, Jakub and Trabelsi, Sarah.** "Price Co-movement Between Biodiesel and Natural Gas" *Journal of Environmental Management and Tourism* 2017, 8 (1), pp. 7-16.
- Lunackova, Petra; Prusa, Jan and Janda, Karel.** "The Merit Order Effect of Czech Photovoltaic Plants." *Energy Policy* 2017, vol. 106, pp. 138-147.
- Filip, Ondrej; Janda, Karel; Kristoufek, Ladislav and Zilberman, David.** "Dynamics and Evolution of the Role of Biofuels in Global Commodity and Financial Markets." *Nature Energy*, article number 16169, 1 (12), December 2016, 9 pages.

- Kristoufek, Ladislav; Janda, Karel and Zilberman, David.** "Comovements of Ethanol Related Prices: Evidence from Brazil and the USA." *Global Change Biology (GCB) Bioenergy* 2016, 8 (2), pp. 346-356.
- Havranek, Tomas; Irsova, Zuzana, Janda, Karel and Zilberman, David.** "Selective Reporting and the Social Cost of Carbon." *Energy Economics* 2015, vol. 51, pp. 394-406.
- Janda, Karel; Tran, Van Quang and Zetek, Pavel.** "The Factors Influencing the Participation of Women in Microfinance." (In Czech.) ("Faktory ovlivnující zapojení žen v mikrofinancích.") *Politická ekonomie*, 2015, 63 (3), pp. 363-381.
- Janda, Karel; Tran, Van Quang and Zetek, Pavel.** "Influence of External Funding on Microfinance Performance – Macro Perspective." (In Czech.) ("Vliv externího financování na mikrofinanční rozvoj – makropohled.") *Ekonomický časopis - Journal of Economics*, 2015, 63 (2), pp. 115-132.
- Janda, Karel and Zetek, Pavel.** "Microfinance Revolution: Controversies and Challenges." (In Czech.) ("Mikrofinanční revoluce: kontroverze a výzvy.") *Politická ekonomie*, 2015, 63 (1), pp. 108-130.
- Janda, Karel.** "Export Credit Agencies in the Czech Republic and Their Market Power." *CESifo Forum* 2014, 15 (3), pp. 45-51.
- Janda, Karel; Rausser, Gordon and Barbora Svarovska.** "Can Investment in Microfinance Funds Improve Risk-Return Characteristics of a Portfolio?" *Technological and Economic Development of Economy*, 2014, 20 (4), pp. 673-695.
- Kristoufek, Ladislav; Janda, Karel and Zilberman, David.** "Price Transmission between Biofuels, Fuels and Food Commodities." *Biofuels, Bioproducts and Biorefining* 2014, 8 (3), pp. 362-373.
- Blahova, Pavla; Janda, Karel and Kristoufek, Ladislav.** "The Perspectives for Genetically Modified Cellulosic Biofuels in the Central European Conditions." *Agricultural Economics* 2014, 60 (6), pp. 247-259.
- Janda, Karel; Krska, Stepan and Prusa, Jan.** "Czech Photovoltaic Energy: Model Estimation of the Costs of Its Support." (In Czech.) ("Česká fotovoltaická energie: modelový odhad nákladu na její podporu.") *Politická ekonomie* 2014, 62 (3), pp. 323-346.
- Janda, Karel and Zetek, Pavel.** "Macroeconomic Factors Influencing Interest Rates of Microfinance Institutions in Latin America and the Caribbean." *Agricultural Economics* 2014, 60 (4), pp. 159-173.
- Chrz, Stepan; Janda, Karel and Kristoufek, Ladislav.** "Modeling Interconnections within Food, Biofuel, and Fossil Fuel Markets." (In Czech.) ("Modelování provazanosti trhu potravin, biopaliv a fosilních paliv.") *Politická ekonomie* 2014, 62 (1), pp. 117-140.
- Janda, Karel; Michalíková, Eva and Skuhrovec, Jiri.** "Credit Support for Export: Robust Evidence from the Czech Republic." *The World Economy* 2013, 36 (12), pp. 1588-1610.
- Janda, Karel and Turbat, Batbayar.** "Determinants of Financial Performance of Microfinance Institutions in Central Asia." *Post-Communist Economies* 2013, 24 (5), pp. 558-569.



- Prusa, Jan; Klimesova, Andrea and Janda, Karel.** "Consumer Loss in Czech Photovoltaic Power Plants in 2010-2011." *Energy Policy* 2013, vol. 63, pp. 747-755.
- Vacha, Lukas; Janda, Karel, Kristoufek, Ladislav and Zilberman, David.** "Time-Frequency Dynamics of Biofuel-Fuel-Food System." *Energy Economics* 2013, vol. 40, pp. 233-241.
- Janda, Karel; Rausser, Gordon and Strielkowski, Wadim.** "Determinants of Profitability of Polish Rural Micro-enterprises at the Time of EU Accession." *Eastern European Countryside* 2013, vol. 19, pp. 177-217.
- Kristoufek, Ladislav; Janda, Karel and Zilberman, David.** "Regime-dependent Topological Properties of Biofuels Networks." *European Physical Journal B* 2013, 86 (2), article 40, 12 pages.
- Janda, Karel and Svarovska, Barbora.** "Performance of Microfinance Investment Vehicles." *Journal of Economics* 2013, 61 (1), pp. 47-66.
- Kristoufek, Ladislav; Janda, Karel and Zilberman, David.** "Correlations Between Biofuels and Related Commodities Before and During the Food Crisis: A Taxonomy Perspective." *Energy Economics* 2012, 34 (5), pp. 1380-1391.
- Janda, Karel; Kristoufek, Ladislav and Zilberman, David.** "Biofuels: Policies and Impacts." *Agricultural Economics* 2012, 58 (8), pp. 372-386.
- Havranek, Tomas; Irsova, Zuzana and Janda, Karel.** "Demand for Gasoline Is More Price-Inelastic than Commonly Thought." *Energy Economics* 2012, 34 (1), pp. 201-207.
- Janda, Karel and Rausser, Gordon.** "Comparing American and European Regulation of Over-the-Counter Derivative Securities." *European Financial and Accounting Journal* 2011, 6 (4), pp. 7-19.
- Janda, Karel.** "Inefficient Credit Rationing and Public Support of Commercial Credit Provision." *Journal of Institutional and Theoretical Economics* 2011, 167 (2), pp. 371-391.
- Janda, Karel and Mikolasek, Jakub.** "Success in Economic Transformation of the Czech Beer Industry and Its Social Costs and Benefits." *Transformations in Business and Economics* 2011, 10 (3), pp. 117-137.
- Janda, Karel and Svarovska, Barbora.** "Investing into Microfinance." *Journal of Business Economics and Management* 2010, 11 (3), pp. 483-510.
- Janda, Karel; Mikolasek, Jakub and Netuka, Martin.** "Complete Almost Ideal Demand System Approach to Czech Alcohol Demand." *Agricultural Economics* 2010, 56 (9), pp. 421-434.
- Janda, Karel; Michalikova, Eva and Potacelova, Vera.** "Gravity and Fiscal Models of Government Support of Export Credit in the Czech Republic." (In Czech.)("Gravitacni a fiskalni modely statni podpory exportnich uveru v Ceske republice.") *Politicka ekonomie* 2010, 58 (3), pp. 305-325.
- Dokulilova, Lenka; Janda, Karel and Zetek, Pavel.** "Sustainability of Microfinance Institutions in Financial Crisis." *European Financial and Accounting Journal* 2009, 4 (2), pp. 7-33.

- Janda, Karel.** "Bankruptcies with Soft Budget Constraint." *Manchester School* 2009, 77 (4), pp. 430-460.
- Janda, Karel.** "Methodology and Empirical Analysis of Social Changes and Economic Risk in Complex Systems." Review in *Prague Economic Papers* 2009, 18 (1), pp. 88-93.
- Janda, Karel.** "Uverova podpora investicnich zameru v Ceske republice." (In Czech.) ("Credit Support of Investment in the Czech Republic.") *Acta Oeconomica Pragensia* 2009, 17 (2), pp. 3-20.
- Janda, Karel.** "Statni podpora ceskych vyvoznich uveru." (In Czech.) ("Government Support of the Czech Export Credit.") *Cesky financni a uctni casopis* 2008, 3 (1), pp. 1-13.
- Janda, Karel and Cajka, Martin.** "Ceska uverova podpora zemedelstvi: analyza prvni deseti let." (In Czech.) ("Czech Credit Support to the Agriculture: The Analysis of the First 10 Years.") *Czech Economic Review* 2007, 1 (2), pp.135-154.
- Janda, Karel.** "Optimal Debt Contracts in Emerging Markets with Multiple Investors." *Prague Economic Papers* 2007, 16 (2), pp.115-129 .
- Janda, Karel.** "Analysis of the Budgetary Costs of the Supporting and Guarantee Agricultural and Forestry Fund." *Czech Journal of Economics and Finance* 2006, 56 (9-10), pp.416-434.
- Janda, Karel.** "Agency Theory Approach to the Contracting between Lender and Borrower." *Acta Oeconomica Pragensia* 2006, 14 (3), pp.34-47.
- Janda, Karel and Cajka, Martin.** "Podpora zemedelskeho uveru na Slovensku a v Ceske republice." (In Czech.)("The Support of Agricultural Credit in Slovakia and in the Czech Republic.") *Journal of Economics/ Ekonomicky casopis* 2006, 54 (2), pp.139-153.
- Janda, Karel.** "The Comparison of Credit Subsidies and Guarantees in Transition and Post-Transition Economies." *Journal of Economics/ Ekonomicky casopis* 2005, 53 (4), pp.383-398.
- Janda, Karel and Munich, Daniel.** "The Intra-Industry Trade of the Czech Republic." *Emerging Markets Finance and Trade* 2004, 40 (2), pp. 27-50.
- Janda, Karel.** "Credit Guarantees in a Credit Market with Adverse Selection." *Prague Economic Papers* December 2003, 12 (4), pp. 331-349.
- Janda, Karel.** "Signalling and Underutilization of Import Quota and Voluntary Export Restraint." *Journal of International Trade and Economic Development*, December 2002, 11 (4), pp. 351-365.
- Janda, Karel.** "Debt Renegotiation with Collateral under Asymmetric Information." *Czech Journal of Economics and Finance*, November 2002, 52 (11-12), pp. 634-635.
- Janda, Karel.** "Model konkurencniho uveroveho trhu v podminkach nedokonalych informaci." (In Czech.)("A Model of a Competitive Credit Market in the Conditions of Imperfect Information.") *Politicka ekonomie*, August 2002, 50 (4), pp. 551-566.

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*Bankruptcies with Soft Budget Constraint in Transition Economies.* **The Annual Conference of the European Economics and Finance Society.** Prague, Czech Republic, May 22 - 25, 2008.

*Signaling the Strength of a Market Entrant. Conference Central Europe in the Union and the Union in the Central Europe.* Prague, Czech Republic, September 19 - 21, 2007.

*Optimal Renegotiation Proof Financial Contracts with Multiple Lenders. 22nd European Conference on Operations Research.* Prague, Czech Republic, July 8 - 11, 2007. And *The 4th Biennial Conference of the Czech Economic Society.* Prague, Czech Republic, November 25, 2006.

*Government Support to Agricultural Credit - Theory and Czech Empirical Evidence. 93rd Seminar of the European Association of Agricultural Economists.* Prague, Czech Republic, September 22 - 23, 2006.

*Credit Guarantees in a Credit Market with Adverse Selection. 59th Congress of the International Institute of Public Finance.* Prague, Czech Republic, August 25 - 28, 2003.

*Debt Renegotiation with Collateral under Asymmetric Information. The 2nd Biennial Conference of the Czech Economic Society.* Prague, Czech Republic, November 23, 2002. And *Iowa Alumni Workshop.* University of Iowa, Iowa City, May 11, 2002.

*Multifunctionality in the Czech Agriculture. Summer Symposium of International Agricultural Trade Research Consortium.* Whistler, Canada, June 15 - 17, 2002.

*Food Import Demand in the Czech Republic.* (Joint with Gordon Rausser and Jill McCluskey.) *Conference of International Atlantic Economic Society.* Montreal, October 7 - 10, 1999. And *Agrarian Perspectives VIII.* Czech Agricultural University, Prague, September 23 - 24, 1999.

*Food Demand During the Transition from Centrally Planned to Market Economy. University - Wide Research Forum.* University of Iowa, Iowa City, April 5, 1999.

*Czech Foreign Trade During Economic Transition 1990-1997. Trade Policies and Structural Changes in CEE Countries.* Workshop organized by CEPR and IEWS. Bucharest, Romania, October 17, 1997.

*Monopolistic Credit Market in Stabilized and Transition Economies. XIIth Congress of European Economic Association.* Toulouse, August 31 - September 2, 1997.

*Government Interventions in Competitive Credit Market. Econometric Society European Meeting.* Toulouse, France, August 26 - 30, 1997.

*Credit Provision under Asymmetric Information and the Fund of Guarantees for Agriculture and Forestry. XIth Congress of European Economic Association.* Istanbul, August 21-24, 1996.

*The Government Support To Agricultural and Small Business Credit. Business Stimulation and Regional Development.* Seminar organized by Georgetown University. Bielsko Biala, Poland, December 8-10, 1995.

*Capital Markets and Farming Structures in the Czech Republic in the Conditions of Asymmetric Information and Uncertainty.* (Joint with Tomas Ratering.) *Transformation Strategies with Particular Reference to Capital Formation in Agricultural Cooperatives in Central and Eastern Europe.* Godollo University and FAO, Godollo, Hungary, September 8-10, 1995.

*The Estimation of Import Demand in Czech Agricultural Trade.* (Joint with Gordon Rausser.) *Agriculture and Trade in Transition Economies: Policy Design and Implementation.* Institute for Policy Reform and CERGE-EI, Prague, July 28-29, 1995.

*Government Regulation of Agricultural Markets in Czechoslovakia. Joint Outlook Conference of Ministry of Agriculture of Poland and Economics Research Service of US Department of Agriculture.* Warsaw, Poland, June 1992.

*The Analysis of Production Efficiency in Food Industry. International Conference of Student Researchers in Economics.* Prague, December 1988.

### RESEARCH GRANTS and PRIZES

*Evidence-Based Industrial Policy.* Charles University. Grant number PRIMUS/25/SSH/008. Participant, 2025-2028.

*Asset Pricing, Internet Data, Machine Learning with Natural Language Processing in the Era of Sustainable and Decentralized Finance with Uncertainty.* Grant Agency of the Czech Republic. Grant number 24-10008S. Principal investigator, 2024-2026.

*Global Excellence in Modeling Climate and Energy Policies.* EU Horizon 2020. Project no.: 870245. Deputy Coordinator, 2022-2026.

*Center for Socio-Economic Research on Environmental Policy Impact Assessment (SEEPIA).* Technology Agency of the Czech Republic. Project no.: SS04030013. Participant, 2021-2026.

*Modeling the Structure and Dynamics of Energy, Commodity and Alternative Asset Prices.* Grant Agency of the Czech Republic. Grant number 22-19617S. Participant, 2022-2024.

*Frontiers in Energy Efficiency Economics and Modelling - FE3M.* Grant Agency of the Czech Republic. Grant number 19-26812X. Principal co-investigator, 2019-2024.

*Global Excellence in Modelling of Climate and Energy.* EU Horizon 2020. Contract no.: 681228. Coordinator, 2016-2022.

*Economics of Energy and Environmental Policy.* Charles University. Grant number PRIMUS/17/HUM/16. Participant, 2018-2022.

*Experience-sharing of V4 Countries to Strengthen Civic Engagement* Visegrad Fund. Grant number 21910119. Participant, 2019-2020.

*Frantisek Behounek Prize.* Czech Ministry of Education, Youth and Sports. 2017.

*Innovative Approaches to Credit Risk Management.* Grant Agency of the Czech Republic. Grant number 18-05244S. Participant, 2018-2020.

*Developing Hybrid Modelling Framework for Regulatory Impact Assessment: CGE-TIMES.* Grant Agency of the Czech Republic. Grant number 18-26714S. Participant, 2018-2019.

*European Integration in Central Europe: the Experience of Visegrad Countries.* Visegrad Fund. Grant number 61450035. Participant, 2015-2018.

*Beyond Green Paradoxes: Microeconomic, Econometric and Meta-Analysis Framework for Investigation of Unintended Effects of Climate and Energy Policies.* Grant Agency of the Czech Republic. Grant number 16-00027S. Principal investigator, 2016-2018.

*Credit Risk Modeling for Financial and Commodity Assets Portfolios.* Grant Agency of the Czech Republic. Grant number 15-00036S. Principal investigator, 2015-2017.

*Economic Modeling for Climate-Energy Policy.* Seventh Framework Programme EU. Contract no.: 609642. Coordinator, 2014-2017.

*V4 for C3 EU Integration.* Visegrad 4 Eastern Partnership Program. Flagship Project number 31250020. Participant, 2012-2015.

*Heterogeneity in Economics and Finance.* Grant Agency of Charles University. Grant number 265 504/2012. Participant, 2012.

*Institutional Support.* University of Economics, Prague. Grant number IP100040. Participant, 2012-2016.

*Heterogeneity Between Agents in Economics and Finance.* Grant Agency of Charles University. Grant number 263 504/2011. Participant, 2011.

*The Development of Analytical Framework for Energy Security: Time Series Econometrics, Game Theory, Meta-Analysis, and Theory of Regulation* Grant Agency of the Czech Republic. Grant number 402-11-0948. Principal investigator, 2011-2015.

*The Development of Microeconomic Agent Optimization in Economics and Finance.* Grant Agency of Charles University. Grant number 261 501/2010. Principal investigator, 2010.

*Institutional Responses to Financial Market Failures.* Grant Agency of the Czech Republic. Grant number 403-10-1235. Participant, 2010-2014.

*The Problems of Correlation in the Financial Risk Management.* Grant Agency of the Czech Republic. Grant number 402-09-0380. Participant, 2009-2011.

*EU Food Industry Dynamics and Methodological Advances.* Sixth Framework Programme EU. Contract no.: 044283. Participant, 2007-2009.

*Credit Risk and Credit Derivatives.* Grant Agency of the Czech Republic. Grant number 402-06-0890. Participant, 2006-2008.

*Integration of the Czech Economy into European Union and Its Development.* Institutional grant of the Czech Ministry of Education. Grant number MSM0021620841. Participant, 2005-2011.

*Efficiency of Financial Markets and New Basel Capital Accord (NBCA).* Grant Agency of the Czech Republic. Grant number 402-05-2123. Participant, 2005-2007.

*Policy Advice in Economic Policy Institutes Network.* United Nations Development Programme. Grant number 34492(33297). Participant, 2004-2008.

*Interactions of Public Finance and Capital Markets.* Grant Agency of the Czech Republic. Grant number 402-03-1307. Participant, 2003-2005.

*Markets in the Transition Economy under Imperfect Information.* Research Support Scheme of the Open Society Support Foundation. Grant number 97/1998. Principal investigator, 1999-2001.

*The Development of a Market Economy in the Czech Republic.* Grant Agency of the Czech Republic. Grant number 402/95/0789. Participant, 1995-1996.

*Trade Analysis and Policy Development.* USAID. Participant, 1994-1995.

*Financing the Czech Agriculture in Transition.* Grant Agency of the Czech Republic. Grant number 512-93-2495. Participant, 1993-1994.



*Economic Efficiency of Czech Alcohol Beveridges Industry.* First prize in international competition of students from all COMECON countries in 1989.

## PROFESSIONAL ACTIVITIES

Co-Editor of *Politická Ekonomie* 2009-present.  
Member of the editorial board of *Journal of Tax Reform* 2015-present.  
*European Finance and Accounting Journal*: member of the advisory board 2014-2015, member of the editorial board 2016-present.  
Member of the advisory editorial board of *International Journal of Economic Sciences* 2014-present.  
Member of the editorial board of the *Czech Journal of Economics and Finance* 2004-present.  
Member of the editorial board of *Czech Economic Review* 2006-2016.  
Member of the editorial board of *Open Economics Journal* 2008-2016.  
Member of the editorial board of *Open Business Journal* 2007-2016.  
Member of the editorial board of *Prague Social Sciences Studies* 2005-2012.  
Member of *Scientific Council of Transition Studies Review* 2004-2018.  
Member of *Oxford's Network of Climate Researchers* 2022 - present.  
Member of *ANU Institute for Climate, Energy and Disaster Solutions*, Australian National University 2018 - present.  
Research Associate of *Climate Change and Energy* program of *CAMA*, Australian National University 2012-present.  
Member of *Board of Directors of the Czech Economic Society* 2011-present.  
Member of field committee of the Ph.D. study programme in energy economics at *Faculty of Electrical Engineering at Czech Technical University* 2019-present.  
Member of field committee of the Ph.D. study programme in economic theory at *CERGE* 2009-present.  
Field committee of the Ph.D. study programme in economic theory at *Charles University*, member 2003-present, chairman 2006-2010.  
Member of *Expert Advisory Body of Evaluators* established by the *Research, Development and Innovation Council of the Czech government*, 2019 - present.  
Member of *Grant Subcommittee of the Czech Science Foundation* 2006-2017, 2019 - present, deputy chairman of finance subcommittee and member of social sciences and humanities committee 2019 - present.  
*Grant Agency of Charles University*, member of social sciences section 2006-2019, chairman of economics subsection 2007-2010 and 2014-2019, member of governing board 2008-2010.  
Member of *Czech expert advisory group for "Climate, Energy, Mobility"* programme section of *EU Horizon Europe*, 2020-present.  
Member of *Czech expert advisory group for "Secure, Clean and Efficient Energy"* programme section of *EU Horizon 2020*, 2014-2020.  
Member of *central scientific working group for research in agricultural economics* at *Czech Ministry of Agriculture* 2009-2011.  
Member of *Center for Basic Research in Dynamic Economics and Econometrics*, Prague 2009-2011.  
Member of *Grant Committee of the Czech Academy of Sciences* 1998-2000.  
Member of *Scientific Council of Faculty of Social Sciences, Charles University in Prague* 2010, 2011-2014.  
Member of *Scientific Council of Faculty of Economics, University of Economics, Prague* 2013-2022.  
Member of *Scientific Council of Environment Center, Charles University in Prague* 2014-present.

Member of Czech Academy of Agricultural Sciences 2011-present.

Founding member of Czech Association of Agricultural and Environmental Economists and Sociologists 2018-present.

Member of New York Academy of Sciences 2023-present.

Referee for *Acta Oeconomica Pragensia*, *Acta Universitatis Agriculturae et Silviculturae Mendelianae Brunensis*, *Agricultural Economics*, *AGRIS on-line Papers in Economics and Informatics*, *American Economic Journal: Economic Policy*, *Applied Economics*, *Applied Economics Letters*, *Borsa Istanbul Review*, *Bulletin of Economic Research*, *Bulletin of The Czech Econometric Society*, *Central European Journal of Operations Research*, *Central European Review of Economic Issues*, *Czech Economic Review*, *Czech Journal of Economics and Finance*, *Eastern European Economics*, *Economic Inquiry*, *Economic Systems*, *Economics of Transition*, *Emerging Markets Finance and Trade*, *Energy Journal*, *Energy Economics*, *Energy Policy*, *Energy Strategy Reviews*, *Energies*, *European Integration Online Papers*, *Food Policy*, *Global Change Biology (GCB) Bioenergy*, *International Journal of Economic Sciences*, *International Journal of Environmental Research and Public Health*, *International Journal of Finance and Economics*, *Journal of Business Economics and Management*, *Journal of Business Ethics*, *Journal of Climate Finance*, *Journal of Cleaner Production*, *Journal of Competitiveness*, *Journal of Development and Agricultural Economics*, *Journal of Economics*, *Journal of Economic Surveys*, *Journal of Economic Theory*, *Journal of Environmental Economics and Management*, *Journal of Food Products Marketing*, *Journal of Institutional and Theoretical Economics*, *Journal of International Development*, *Journal of International Trade and Economic Development*, *Journal of World Business*, *Land, Land Use Policy*, *Mathematics*, *Oxford Development Studies*, *Open Business Journal*, *Open Economics Journal*, *Politická Ekonomie*, *Post-Communist Economies*, *Prague Economic Papers*, *Quarterly Review of Economics and Finance*, *Regulation and Governance*, *Renewable Energy*, *Review of World Economics/ Weltwirtschaftliches Archiv*, *SIAM Journal on Optimization*, *Small Business Economics*, *Statistika*, *Studies of Socio-Economics and Humanities*, *Sustainability*, *Transportation Research Part A: Policy and Practice*, *Wiley Interdisciplinary Reviews (WIREs) Energy and Environment*, *Oxford University Press*, *Oeconomica*, *Matfyzpress*, *Springer Verlag*, *Czech National Bank*, *Czech Science Foundation*, *Czech Ministry of Finance*, *Grant Agency of Czech Ministry of Education*, *Grant Agency of the Czech Academy of Sciences*, *Grant Agency of Charles University*, *Czech National Grant Agency for Agricultural Sciences*, *Slovak Academy of Sciences*, *Slovak Research and Development Agency*, *European Association of Agricultural Economists*, *European Association of Environmental and Resource Economists*, *Czech Economic Society*, *Global Development Network*, *United Nations Development Programme*, *International Agricultural Trade Research Consortium*, *Research Directorate of European Commission*.