



Kateřina Mácová (Kaprová)

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Gender: Female **Date of birth:** 07/12/1985 **Nationality:** Czech

WORK EXPERIENCE

[12/2012 – Current] **Researcher - Department for the Research on Environmental Behavior**

Charles University, Environment Center (CUEC)

Address: Jose Martiho 2, 16200, Prague, Czechia

Main activities and responsibilities:

Research focus:

* Ecosystem services valuation using market and non-market valuation techniques (mainly demand analysis based on revealed preference methods: travel cost or hedonic price method)

* Environmental cost-benefit analysis, valuation of externalities, impacts of economic instruments and climate change adaptation strategies, policy guidance

[01/2012 – 11/2012] **Researcher**

Institute of Agriculture Economics and Information

Address: Mánesova 1453/75, 12056, Prague, Czechia

Main activities and responsibilities:

* Analyses of economic performance of agricultural holdings, organic farming, assessment of representativeness of Farm Accountancy Data Network sample of holdings

* Data verification

[07/2007 – 12/2011] **Environmental economist - Department of environmental economy and management**

Czech Environmental Information Agency

Address: Litevská 8, 10005, Prague, Czechia

Main activities and responsibilities:

* Analyses of environmental policy instruments, reports on instruments and environmental policy, expenditures on protection of environment, methodic support for analyses

* Economic consultations on RIA, IPPC, waste management

[2011 – 2014] **Teaching assistant**

Department of Environmental Economics, University of Economics

Address: W. Churchilla sq. 4, 13067, Prague, Czechia

Main activities and responsibilities:

Courses 5ZP200 - Introduction to Environmental Economics, 5ZP524 - Economic Valuation of Environment, 5ZP528 - Environmental Cost-Benefit Analysis

EDUCATION AND TRAINING

[2017] **Course of Pedagogical Skills Development**

Charles University

Address: Prague

Main subject / occupational skills covered:

Postgraduate course

[2016] **Management of science and innovations**

Charles University

Address: Prague

Main subject / occupational skills covered:
Postgraduate course

[2014] **Belpasso Summer School on Environmental Economics: Spatial Context and Valuing Natural Capital for Conservation Planning**

University of Catania, BC3, EAERE

Address: Belpasso, Italy

[2013] **Stated preference methods: State-of-the-art modelling**

CERE & Department of Forest Economics, SLU-Umeå

Main subject / occupational skills covered:
Postgraduate course

[09/2011 – Current] **Ph. D. candidate**

Environmental studies - Faculty of Humanity Sciences, Charles University in Prague

Address: Prague

National classification: Doctoral studies

Main subject / occupational skills covered:
Environmental economics, recreation demand analysis, choice modelling, meta-analysis

*** Doctoral thesis: Revealed preferences for outdoor recreation in natural areas - Czech and European perspective**

[09/2008 – 01/2011] **Academic degree Engineer in economics - Ing.**

University of Economics in Prague, Faculty of Economics

Address: Prague

National classification: Master studies

Main subject / occupational skills covered:
Economic theory, Environmental economics, Natural Resource Economics, Statistics, Econometrics, Management, Environmental Policy, Regional Studies

*** Major specialization: Environmental Economics and Management**

*** Minor specialization: Regional and Urban Development**

(passed with grade average among top 10 % of students in the field of study)

[09/2005 – 06/2008] **Academic degree Bachelor in economics - Bc.**

University of Economics in Prague, Faculty of Economics

Address: Prague

National classification: Bachelor studies

Main subject / occupational skills covered:
Economic theory, Environmental economics, Environmental Policy, Statistics, Management; major specialization: Applied Environmental Economics, Management and Politics

(passed with honours)

LANGUAGE SKILLS

Mother tongue(s): Czech

Other language(s):

English

LISTENING C1 READING C2 WRITING C2

SPOKEN PRODUCTION C2 SPOKEN INTERACTION C1

French

LISTENING B2 READING B2 WRITING B2

SPOKEN PRODUCTION B1 SPOKEN INTERACTION B1

Polish

LISTENING A2 READING A2 WRITING A1

SPOKEN PRODUCTION A1 SPOKEN INTERACTION A1

PUBLICATIONS

Articles

Mácová, K., A. Szórádová, J. Kolařík (2022, in press). **Are trees planted along roads sustainable? A large-scale study in the Czech Republic.** Sustainability 2022.

Kaprová, K., B. Neumannová (2021). **Aktualizace metodiky oceňování dřevin AOPK ČR pro rok 2021** (Updates of Methodology for non-forest woody plants appraisal NCA CR in 2021). Ochrana přírody 4, 31-34.

Kaprová, K., A. Szórádová, E. Smolová (2019). **Vývoj cen výpěstků stromů v oceňování dřevin rostoucích mimo les** (Development of prices of tree nursery products in the context of woody plants appraisal). Zahradnictví 12, 38-41.

Kaprová, K., A. Szórádová, B. Vojáčková (2018). **Patterns in recent urban tree plantations and their implications for urban greenery management under the climate change.** Journal of Landscape Management 9/2, 22-29.

Melichar, J., K. Kaprová, M. Ščasný (2016). **The biodiversity change in the Czech Republic, driving forces and associated welfare impacts.** Journal of Landscape Management 7/2, p. 37-44.

Kaprová, K. (2015). **Recreation values and the value of recreation demand modelling: The case of the Šumava NP.** Journal of Landscape Management 6/2, p. 38-48.

Braun Kohlová, M., Melichar, J., Kaprová, K., Škopková, H., Máca, V. (2015). **Visitor monitoring methods for good management of protected areas.** Journal of Landscape Management 6/2, p. 49-55.

Kaprová, K. (2015). **Definition of the recreation shadow price and its implications on recreation welfare estimation.** Journal of Landscape Management 6/1, p. 7-16.

Melichar J., K. Kaprová (2013). **Revealing preferences of Prague's homebuyers towards greenery amenities: the empirical evidence of distance-size effect.** Landscape and Urban Planning 109(1), pp. 56-66.

Methodologies and books

Kolařík, J., A. Szórádová, H. Holešová, J. Mikulášek, K. Kaprová, J. Karel, E. Smolová, R. Jareš (2022). **Metodika Oceňování dřevin rostoucích mimo les včetně výpočtu kompenzačních opatření za kácené nebo poškozené dřeviny AOPK ČR** (Methodology for non-forest woody plants appraisal including calculation of compensatory measures for felled or damaged woody plants NCA CR). AOPK ČR, Praha. 122 p. ISBN 978-80-7620-099-9

Farkač, B., Sochová, E., Kobyláková, M., Kaprová, K., Čámská, K. (2021). **Osvědčené komunikační postupy v ochraně přírody - Metodika komunikace s vlastníky a uživateli pozemků v chráněných územích.** (Best Communication Practices in Nature Conservation - Methodology on communication with land owners and land users in protected areas) AOPK ČR, Praha. 42 p. ISBN 978-80-7620-093-7

Melichar, J., V. Máca, K. Kaprová, K. Kreislová, J. Karel (2016). **Výpočetní metodika pro vyhodnocení celospolečenských dopadů znečištěného ovzduší modelem integrovaného hodnocení** (Methodology for integrated assessment of social impacts of air pollution). COŽP UK, ATEM, SVÚOM, Praha. 94 p.

Braun Kohlová, M., J. Melichar, K. Kaprová (2016). **Metodika monitoringu návštěvnosti v přírodních oblastech** (Methodology for visitor monitoring in nature areas). AOPK ČR, Praha. 70 p. ISBN 978-80-88076-60-5

Melichar, J., K. Kaprová, V. Máca (eds) (2012). **Applied environmental economics and econometrics: Czech perspective.** Nakladatelství a vydavatelství litomyšlského semináře, Praha. ISBN 978-80-86709-18-5.

Kaprová K., P. Kačmárová, K. Kolská, L. Petkovová, P. Šauer (2010). **Veřejné podpory v ochraně životního prostředí v České republice a přístupy k jejich posuzování** (Public subsidies in environment protection of the Czech Republic and approaches to their evaluation). CENIA, 2010. ISBN 978-80-85087-94-9.

Kaprová K., K. Kolská, K. Krpatová, P. Kačmárová, J. Prášek, P. Šauer (2009). **Environmentální poplatky a daně v České republice a ostatních zemích Evropské unie** (Environmental fees and taxes in the Czech Republic and European Union). CENIA, 2009. ISBN 978-80-85087

PROJECTS

I

"Integrated LIFE project for the Natura 2000 network in the Czech Republic"; LIFE-IP: N2K Revisited, LIFE17 IPE/CZ00005 European Commission (2019-2026); researcher

"Recreational purposes of Vltava river cascade and its economical potential under the climate change"; TL02000408 Technology Agency of the Czech Republic (2019-22); researcher

"Authentication of computation of the social value of woody plants growing out of forest for the purpose of calculation of the extent of compensation measures for felling", TL01000020 Technology Agency of the Czech Republic (2018-21); coordinator & researcher

"Optimization of management of forest restoration on sites affected by surface mining", QK1710241 Czech Ministry of Agriculture (2017-21); researcher

"Impact assessment of air pollution deposition and climate variability on forest ecosystem services and design of adaptation measures for minimizing these risk factors", TH02030686 Technology Agency of the Czech Republic (2017-20); researcher

"PEOPLE - People-Centered Development in Practical and Learning Environments", Erasmus+ (2016-19); researcher

"Innovative restart of biotope valuation method", TD03000093 Technology Agency of the Czech Republic (2016-17); researcher

"Novel policies in post-mining landscape planning: socio-economic assessment of alternative land rehabilitation options", TD03000249 Technology Agency of the Czech Republic (2016-17); researcher

"ECONADAPT: The economics of climate change adaptation", 7th FP EC (2013-16); researcher

"Specification of distance, time and travel cost in recreation demand models", Grant Agency of the Charles University (2014-15); main participant

"The use of pricing mechanism for tourism directing and financing the management of specially protected areas in the Czech Republic", TD020049 Technology Agency of the Czech Republic (2014-15); researcher

"Integrated model for assessment of health and environmental risks from opencast mining of brown coal", TD020183 Technology Agency of the Czech Republic(2014-2015); researcher

"Integrated assessment of risks and impacts on materials, ecosystems and population health from exposure to atmospheric pollution", TA02021165 Technology Agency of the Czech Republic (2012-15); researcher

"Global-IQ: Impacts Quantification of global changes", 7th FP EC (2011-14); researcher

"PASHMINA: Paradigm Shifts Modelling and Innovative Approaches", 7th FP EC (2009-12); researcher

II

„Environmental education – Multimedial environmental yearbook“, CZ.1.07./1.1.00/08.0022., Ministry for regional development of the Czech Republic (2011-12); researcher

"Climate cost: Full costs of climate change", 7th FP EC (2009-11); researcher

„SIRIUS – System of Integration and Management of Information in the Field of Technical Environmental Protection and its Connection to Registers of Public Administration“ – Ministry of Environment of the Czech Republic (2010-11); researcher

„Quantification of External Costs from Transport in the Czech Republic“ – Science and Research CG712-111-520, Ministry of Transport of the Czech Republic (2010); researcher - diploma thesis compiled within the project

„Creating conditions for more efficient implementation of economic instruments“ - Science and Research (VaV) SP/4i1/169/08, Ministry of Environment of the Czech Republic (2009-10); researcher

„Hedonic Pricing Method“ - Internal Grant Agency (IGA) 2007/08, University of Economics (2010); researcher

ORGANISATIONAL SKILLS

Organisational skills

Leadership and project management, good organisational skills

COMMUNICATION AND INTERPERSONAL SKILLS

Communication and interpersonal skills

Team player; Good communication & presentation skills

JOB-RELATED SKILLS

Job-related skills

Econometrics, statistics, geographical data analysis

CONF. PROCEEDINGS, WORKING PAPERS

I

Daněk, J., Kaprová, K., Kračmar, V., Drlíková, J., Farkač, B., Vačkářová, D. (2021). Tailoring ecosystem services assessment to stakeholder needs in the framework of consultations with key actors in Natura 2000 sites in the Czech Republic. ESP 2021, 7-10 June 2021, Tartu.

Schägner, J. P., L. Brander, A. Ghermandi, F. Rodríguez López, K. Kaprová, G. Signorello, D. de Groot (2020). Reporting and quality standards for environmental economic valuation. EAERE 2020, Berlin, 23 June - 3 July 2020.

Kaprová, K. (2020). Water-related recreation around the Vltava river and its economic impacts: A complex approach. Proceedings of conference "Public Recreation and Landscape Protection - With Sense Hand in Hand..." May 2020, p. 567-571.

Kaprová, K. (2019). Recommendations for transfer of recreation values to Czech natural sites. Proceedings of conference "Public Recreation and Landscape Protection - With Sense Hand in Hand..." May 2019, p. 313-316.

Kaprová, K., J. Melichar, M. Braun Kohlová (2018). Testing the validity of benefit transfer in case of recreation values of natural areas in the Czech Republic. Proceedings of conference "Public recreation and landscape protection - with nature hand in hand..." (RaOP 2018), May 2-4, 2018, Křtiny., p. 336-341.

Kaprová, K., J. Melichar, M. Braun Kohlová (2017). Společenské přínosy a ekosystémové služby rekultivované krajiny (Social Benefits and Ecosystem Services of Reclaimed Landscape). Těžba a její dopady na životní prostředí VII, September 19-20, 2017, Most.

Kaprová, K., J. Melichar (2016). Modelling the recreation demand for natural areas in the Czech Republic. 8th International conference on monitoring and management of visitors in recreational and protected areas (September 26-30, Novi Sad) Book of abstracts, p. 96-98.

Kaprová, K., J. Melichar (2016). Measuring recreation benefits of forest quality change with contingent behavior model. 8th International conference on monitoring and management of visitors in recreational and protected areas (August 20-23 2014, Novi Sad) Book of abstracts, p. 319-322.

J. Melichar, M. Braun Kohlová, K. Kaprová (2016). Optimal pricing of recreation in the Czech protected areas. 8th International conference on monitoring and management of visitors in recreational and protected areas (August 20-23 2014, Novi Sad) Book of abstracts, p. 430-432.

Kaprová, K., and J. Melichar (2016). Recreation demand for large natural areas in the Czech Republic. Proceedings of conference "Public recreation and landscape protection - with nature hand in hand..." (RaOP 2016), May 1-3, 2016, Křtiny.

Kaprová, K. (2015). Precision of travel cost measures in estimation the recreation demand: The case of Šumava National Park. IN: Public recreation and landscape protection - with man hand in hand, conference proceedings, 3-5 May 2015, Brno, p. 181-186.

II

Braun Kohlová, M., J. Melichar, K. Kaprová, H. Škopková, V. Máca (2015): Methods for visitor monitoring in protected areas. IN: Public recreation and landscape protection - with man hand in hand, conference proceedings, 3-5 May 2015, Brno, p. 148-152.

Kaprová, K., J. Melichar (2015). Ekonomické hodnocení dopadů povrchové těžby na ekosystémy - diskuse přístupů (Economic assessment of impacts of surface mining on the ecosystems - discussion of approaches). Sborník z konference Těžba a její dopady na životní prostředí VI. (15.-16. září, Staré Splavy), p. 27-35.

Kaprová, K. (2014). Prague urban ecosystem services and their effect on property prices. Paper presented at Belpasso Summer School on Environmental and Resource Economics: Spatial context and valuing natural capital for conservation planning, August 31 - September 6 2014, Belpasso.

Kaprová, K., J. Melichar, J. Urban (2014). Investigating public preferences for forest recreation attributes: Combined scenic beauty and

discrete choice model. Paper presented at 7th International conference on monitoring and management of visitors in recreational and protected areas, August 20-23 2014, Tallinn.

Melichar, J., K. Kaprová, M. Ščasný (2013). Index-based decomposition and econometric analysis of driving forces of biodiversity

change. Paper presented at EcoMod2013 Prague, July 1-3, 2013.

Melichar, J., K. Kaprová, J. Urban (2013). Welfare analysis with discrete choice models - Investigating public preferences for forest recreation attributes. Paper presented at 7th International days of statistics and economics, September 19-21 2013, Prague.

Kaprová, K., J. Melichar (2012). Truncation, overdispersion and endogenous stratification in recreation demand models. Paper presented at

Mathematical methods in economics conference, September 11-13 2012, Karviná.

Kaprová K., P. Kačmárová (2012). Hodnocení environmentální škodlivosti podpor v ČR (Assessment of environmentally harmful subsidies in the Czech Republic). In: Sborník z mezinárodní vědecké konference Environmentální účetnictví a reporting udržitelného rozvoje na mikroekonomické a makroekonomické úrovni. Brno (v tisku), 23. - 25. 4. 2012.

Kačmárová P., K. Kaprová (2012). Databáze OECD/EEA ekonomických nástrojů ochrany životního prostředí: Poplatky a daně ČR (The

OECD/EEA database on economic instruments used for environmental policy and natural resources management: Fees and taxes). In: Sborník z mezinárodní vědecké konference Environmentální účetnictví a reporting udržitelného rozvoje

na mikroekonomické a makroekonomické úrovni. Brno (v tisku), 23. - 25. 4. 2012.

III

Kaprová, K. (2011). Lokální přínosy vegetace v urbanizovaných územích a možnosti jejich hodnocení (Local benefits from vegetation in urban areas and methods for their assessment). In: Makroekonomické aspekty environmentálního účetnictví a reportingu (kolektiv autorů), Univerzita Pardubice 2011.

Kačmárová P., K. Kaprová, K. Kolská, A. Hadrabová, J. Kreuz, P. Šauer (2011). Aplikace metodiky posuzování efektivity implementace politik a legislativy na vybrané ekonomické nástroje ochrany životního prostředí (Application of Methodology for assesment of effectiveness of environmental policy implementation to chosen economic instruments of environmental policy). In: Makroekonomické aspekty environmentálního účetnictví a reportingu (kolektiv autorů), Univerzita Pardubice 2011.

Kačmárová P., K. Kaprová, K. Křpatová (2011). Analýza českých informačních potřeb v oblasti nástrojů politiky životního prostředí

(Analysis of Czech demand for information in the area of environmental policy instruments). In: Makroekonomické aspekty environmentálního účetnictví a reportingu (kolektiv autorů), Univerzita Pardubice 2011.

SOFTWARE, SPECIALIZED MAPS

Software, specialized maps

- Kolařík, J. et al. (2021). Software for appraisal of the value of trees growing outside the forest, including the calculation of compensation measures for felled or damaged trees.
- Melichar, J. et al. (2015). Software for the economic optimisation model for assessment of price mechanisms to regulate tourism.
- Karel, J. et al. (2015). Software for the integrated assessment of social impacts of air pollution.
- Smolová, E. et al. (2021). Map of ecological requirements of new plantings of woody plants.
- Melichar, J. et al. (2017). Specialized map of production and non-production functions of reclamation sites for the mining area of the Sokolov coal basin.
- Kaprová, K. et al. (2015). Specialized map of visitors' intensity and diffusion in CHKO Český ráj.
- Kaprová, K. et al. (2015). Specialized map of visitors' intensity and diffusion in NP Šumava.
- Kaprová, K. et al. (2015). Specialized map of physical impacts on ecosystems for stationary energy sources.
- Kaprová, K. et al. (2015). Specialized map of economic impacts due to atmospheric pollution in pilot sites.
- Máca, V. et al. (2015). Specialized map of physical impacts on population health for stationary energy sources.
- Karel, J. et al. (2015). Specialized map of imission fields from dispersion study for stationary energy sources.
- Karel, J. et al. (2015). Specialized map of imission fields for opencast mining in the ČSA mine.

TEACHING

Teaching

- Environmental Economics and Tourism - optional course at Department of Tourism, Faculty of International Relations, Prague University of Economics and Business (2019-)
- The Energy and Environmental Economics - optional course at CERGE-EI (2017-18)
- Welfare measurement - optional course at Institute of Economic Studies, Faculty of Social Sciences, Charles University (2013-2018)
- Economic valuation of environment- optional course at Department of Environmental Economics, Faculty of Economics, University of Economics (2011-2014)
- Environmental cost-benefit analysis - optional course at Department of Environmental Economics, Faculty of Economics, University of Economics (2011-2014)
- Basics of statistics and econometrics - external Ph. D. course at Department of Development Studies, Faculty of Science, Palacký University, Olomouc (2011)
- Introduction to Environmental Economics -compulsory course at Department of Environmental Economics, Faculty of Economics, University of Economics (2009-11)