



**Povinný subjekt:**

**Akademie věd České republiky**

IČO: 60165171

Adresa:

Národní 1009/3  
110 00 Praha 1

**Žadatel:**

Datum narození: [REDACTED]

Adresa:

[REDACTED]

**Datová schránka: fr6adt5**

**Datová schránka: [REDACTED]**

Vyřizuje: Mgr. Dagmar Škabradová

Správní odbor

Kancelář Akademie věd ČR

Sp. zn.: AVCR-S 862/2025 SPO

Č. j.: AVCR 7803/2025 SPO

Praha 29. srpna 2025

#### **Vyrozumění o poskytnutí informací**

Akademie věd České republiky se sídlem Národní 1009/3, 110 00 Praha 1, IČO 60165171 (dále jen „AV ČR“ nebo „povinný subjekt“) obdržela dne 13. 8. 2025 písemnou žádost doručenou mimo podatelnu povinného subjektu na emailovou adresu [REDACTED], kterou žadatel [REDACTED], narozen [REDACTED], bytem [REDACTED] (dále jen „žadatel“), požádal povinný subjekt o poskytnutí informace, přičemž žádost byla označena jako žádost podle zákona č. 106/1999 Sb., o svobodném přístupu k informacím, ve znění pozdějších předpisů (dále jen „zákon č. 106/1999 Sb.“).

Žadatel ve své žádosti žádal o poskytnutí životopisů konkrétních kandidátů, které byly předloženy v rízení o udělení titulu „doktor věd“ (nebo jeho anglický ekvivalent „Research Professor“).

Vzhledem k tomu, že poskytnutí požadovaných informací by mohlo být v rozporu s právními předpisy na ochranu osobních údajů, informoval povinný subjekt dotčené osoby a vyžádal si jejich souhlas s poskytnutím životopisu žadateli. V případech, kdy byl tento souhlas povinnému subjektu udělen, lze žadateli vyhovět a životopisy poskytnout. V případech, kdy povinný subjekt souhlas dotčené osoby nezískal, bude rozhodnuto o částečném odmítnutí žádosti.

Povinný subjekt po posouzení žádosti v zákonné lhůtě dle zákona č. 106/1999 Sb.,

**p o s k y t u j e**

žadateli tyto informace, respektive životopis těchto osob:

- doc. PhDr. Michal Bauer, Ph.D., DSc., Národní hospodářský ústav AV ČR a CERGE-EI
- doc. Ing. Petr Cintula Ph.D., DSc., Ústav informatiky AV ČR
- Mgr. Magdaléna Jacková, Ph.D., DSc., Ústav pro českou literaturu AV ČR
- prof. Ing. Štěpán Jurajda, Ph.D., DSc., Národní hospodářský ústav AV ČR a CERGE-EI
- doc. Ing. et Ing. Vilém Neděla, Ph.D., DSc., Ústav přístrojové techniky AV ČR
- RNDr. Gabriela Pavlínková, Ph.D., DSc., Biotechnologický ústav AV ČR
- Mgr. Petr Plecháč, Ph.D. et Ph.D., DSc.
- prof. RNDr. Karel Hron, Ph.D., Ústav teorie informace a automatizace AV ČR

Vše výše uvedené je přílohou tohoto vyrozumění.

S pozdravem

Mgr. Dagmar Škabradová

ředitelka Správního odboru Kanceláře AV ČR

**Odůvodnění:**

Podle ustanovení § 14 odst. 5 písm. d) zákona č. 106/1999 Sb. neshledal povinný subjekt důvody k odepření žádosti a žadatele vyrozuměl, jak je uvedeno výše.

# **Doc. PhDr. Michal Bauer, PhD**

Email: [REDACTED]

Homepage: <https://sites.google.com/view/michal-bauer/homer>

Personal information: [REDACTED]

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## **ACADEMIC POSITIONS**

- 2017+ CERGE-EI (under US absolute charter), Associate Professor with Tenure (Assistant Professor, 2011-2016), part-time. Member of the Executive and Supervisory Committee of the CERGE-EI.
- 2017+ Institute of Economic Studies, Charles University, Associate Professor, (Assistant Professor, 2009-2017), part-time
- 2011+ Economics Institute of the Czech Academy of Sciences, Researcher
- 2015+ CEPR, London, Research Affiliate
- 2009+ Institute for Study of Labor (IZA), Bonn, Research Fellow

## **EDUCATION**

- 2005 - 2009 Charles University, Prague, Ph.D. in economics
- 1999 - 2005 Charles University, Prague, BA and MA in economics

## **RESEARCH VISITS**

- UC Berkeley, Jan-March 2020
- Briq, Germany, July 2018
- UC Berkeley, USA, Feb-April 2018
- University of Cape Town, June-July 2016
- UC Berkeley, USA, Jan-June 2015
- New York University, USA, Sep 2007–June 2008

## **RESEARCH INTERESTS**

Development microeconomics, Behavioral economics, Experimental economics.

## **SELECTED PUBLISHED PAPERS**

Shifting punishment on minorities: Experimental Evidence of Scapegoating, with J. Cahlíková, J. Chytilová, G. Roland, T. Želinský, *Economic Journal*, 2023, 133 (652):1626–1640.

Communicating doctors' consensus persistently increases Covid-19 vaccinations, with V. Bartoš, J. Cahlíková and J. Chytilová, *Nature*, 2022, 606: 542–549.

Covid-19 and Hostility against Foreigners, with V. Bartoš, J. Cahlíková, J. Chytilová, *European Economic Review*, 2021, 137 (2021) 103818.

Psychological effects of poverty on time preferences, with V. Bartoš, J. Chytilová and I. Levely, *Economic Journal*, 2021, 131 (638), August 2021, 2357–2382.

Using Survey Questions to Measure Preferences in Developing Countries: Lessons from an Experimental Validation in Kenya, with J. Chytilová and E. Miguel, *European Economic Review*, 2020, 103493.

War Increases Religiosity, with A. Cassar, J. Chytilova, J. Henrich, B.G. Purzycki, Nature Human Behavior, 2019, 3 (February): 129-135.

Social Contagion of Ethnic Hostility, with J. Cahliková, J. Chytilová and T. Želinský, Proceedings of the National Academy of Sciences of the US - PNAS, 2018, 115(19): 4881-4886.

Trusting Former Rebels: An Experimental Approach to Understanding Reintegration after Civil War, with I. Levely and N. Fiala, 2018. Economic Journal, 128: 1786-1819.

Can War Foster Cooperation? with C. Blattman, J. Chytilová, J. Henrich, E. Miguel and T. Mitts, 2016, Journal of Economic Perspectives, 30(3): pp. 249-74.

Attention Discrimination: Theory and Field Experiments with Monitoring Information Acquisition, with V. Bartoš, J. Chytilová, and F. Matějka, 2016, American Economic Review, 106(6), pp. 1437-75.

War's Enduring Effects on the Development of Egalitarian Motivations and In-group Biases, with A. Cassar, J. Chytilová and J. Henrich, 2014, Psychological Science, 25(1), pp. 47-57.

Parental Background and Other-Regarding Preferences in Children, with J. Chytilová, B. Pertold-Gebicka, 2014, Experimental Economics, 17(1), pp. 24-46.

Women, Children and Patience: Experimental Evidence from Rural India, with J. Chytilová, 2013, Review of Development Economics, 14(4), pp. 662-675.

Behavioral Foundations of Microcredit: Experimental and Survey Evidence from Rural India, with J. Chytilová and J. Morduch, 2012, American Economic Review, 102(2), pp. 1118-1139.

The Impact of Education on Subjective Discount Rate in Ugandan Villages, with J. Chytilová, 2010, Economic Development and Cultural Change, 58(4), pp. 643-669.

## CITATIONS

Number of citations: WoS 829, Scopus 845, Google.scholar 2698

H-index: WoS 12, Scopus 11, Google.scholar 17

My papers were cited in most leading economics journals (*Quarterly Journal of Economics*, *American Economic Review*, *Journal of Political Economics*, *Econometrica*, *Review of Economic Studies*, *Journal of Economic Perspectives*, *Journal of Economic Literature* and *Annual Review of Economics*), inter-disciplinary journals (*Nature*, *Science*, *PNAS*, *Nature Human Behavior*), political science journals (*American Political Science Review*, *American Journal of Political Science*, *Annual Review of Political Science*), psychology journals (*Psychological Science*, *Annual Review of Psychology*).

## WORKING PAPERS

Youngism: Experimental Evidence, with V. Bartoš, J. Cahliková and J. Chytilová, 2023.

Nastiness in Groups, with J. Cahliková, D. Celik-Katreniak, J. Chytilová, L. Cingl, T. Želinský, 2022 (r&r in Journal of the European Economic Association).

Human Capital Affects Religious Identity: Causal Evidence from Kenya, with L. Alfonsi, J. Chytilová, E. Miguel, 2021 (r&r in Journal of Development Economics).

## INVITED SEMINARS AND SELECTED CONFERENCE PRESENTATIONS

2022-23: University of Vienna, Max Planck Institute in Bonn. 2020-21: UC Berkeley. Symposium on Social Cohesion in Ethnically Diverse Societies, Tillburg Uni. ERINN annual meeting. ESA Global Around the Clock Meeting (keynote). 2018-2019: UC San Diego. ERINN workshop, Uni Oxford. Briq

mini-lecture series, Bonn. Uni Frankfurt. Max Planck Institute in Bonn. UC Berkeley. Annual Experimental Development Economics PhD workshop, Uni East Anglia (keynote). University of Munich. FAIR Center at NHH, Bergen. 2016-17: Exeter Price Workshop (keynote), SITE workshop in Experimental economics, Stanford. CEPR annual symposium in development economics, LSE. University of Wageningen. European Behavioral Economics Meeting, CEU. 68° North Conference in Behavioral Conference, Svolvaer. University of Vienna. Development Economics Network Berlin. Harvard University, Dept. of Human Evolutionary Biology. WESSI NYU Florence workshop, University of Hannover. 2014-15: University of Lausanne. Stanford University. Norwegian School of Economics in Bergen. IEA World Congress in Amman. University of Bonn. Humboldt University. University of San Francisco. UC Berkeley. ASSA Meeting in Philadelphia. Annual World Bank Conference on Africa (UC Berkeley). University of Verona. UPF in Barcelona. University of Zurich. 2012-13: University of Gothenburg. The German Institute for Economic Research (DIW) in Berlin. Institute for Fiscal Studies – EDePo in London. Workshop on experiments in development economics, University of Oxford. University of Maastricht. IZA in Bonn. Central European University in Budapest. Mendel University in Brno. Workshop on fertile fields in economic development, WZB in Berlin. Goethe University of Frankfurt.

## REFEREEING

*Journals:* American Economic Review, American Journal of Agricultural Economics, Americal Journal of Political Science, American Political Science Review, AEJ: Applied Economics, Cognition, Czech Journal of Economics and Finance, Economic Development and Cultural Change, Economic Letters, Econometrica, Economica, European Economic Review, Economic Journal, Games and Economic Behavior, Journal of African Economies, Journal of Behavioral Decision-Making, Journal of Behavioral and Experimental Economics, Journal of Comparative Economics, Journal of Conflict Resolution, Journal of Development Economics, Journal of Economic Behavior and Organization, Journal of Economic Psychology, Journal of Economic Science Association, Journal of the European Economic Association, Journal of Political Economy Microeconomics, Journal of Public Economics, Management Science, Nature, Nature Communications, Nature Human Behavior, Oxford Economic Papers, Plos One, Proceedings of the National Academy of Sciences - PNAS, Psychological Science, Quarterly Journal of Economics, Scientific Reports, Review of Economics and Statistics, Review of Economic Studies, World Development.

*Grant agencies:* Czech Science Foundation (GACR, panel member: 2020+), Charles University Grant Agency (GAUK, panel member: 2009-2018), ERC, National Science Foundation (NSF), Swiss National Science Foundation, RRC of Global Development Network, IZA/DFID, Grant Agency of Prague University of Economics and Business.

## SUPERVISION OF GRADUATE STUDENTS AND TEACHING

- Former PhD students and their current affiliation: Vojtěch Bartoš (University of Milan), Jana Cahliková (University of Bonn, Institute for Applied Microeconomics, post-doc), Dagmara Celik-Katreniak (City, University of London), Lubomír Cingl (University of Economics, Prague), Petr Janský (Charles University in Prague), Ian Levely (King's College London), Jiří Schwarz jr. (Charles Uni and Czech National Bank), Danijela Vuletic (CERGE-EI, Prague, post-doc), Nikoloz Kudashvili (EBRD consultant), Darya Korlyakova (OECD)
- Current PhD students: Gayane Baghumyan, Nanna Adam
- Current teaching: Experimental Economics (PhD, CERGE-EI), Development economics (MA, IES), Behavioral economics (BA, IES).

## AWARDS

- 2023 Bedřich Hrozný Award for Creative Initiative, awarded by the Charles University Rector, joint with Julie Chytilová

2022	Award for Excellence in Research, Experimental Development and Innovation, awarded by the Czech Minister of Education
2020, 2016, 2011	Švejnar-Terrell Price for excellence in teaching
2017	Exeter Prize for the best paper in experimental economics, decision theory and behavioral economics published during 2016 (Attention discrimination, joint with Vojtěch Bartoš, Julie Chytilová and F. Matějka)
2015	The Best Paper Award on The Economics of Discrimination awarded by UniCredit & Universities Foundation (Attention discrimination...)
2012	Selected as one of six most successful young Czechs by Czech economic weekly (Ekonom)
2011	Otto Wichterle Prize for young scientists awarded by the Czech Academy of Sciences
2006	Young Economist of the Czech Republic, awarded by the Czech Economic Association

#### **GRANTS**

2020-2023	Grant Agency of the Czech Republic – Determinants of Pro-Social and Anti-Social Behavior (co-PI)
2019-2020	Czech Academy of Sciences (ERC-CZ/AV-B) – Identity and Conflict (PI)
2019-2020	ERINN, Center for Study of African Economies – Human Capital and Identity (co-PI)
2020-2022	Grant Agency of the Czech Republic – Determinants of Pro-Social and Anti-social Behavior: Field Experimental Evidence (co-PI)
2017-2019	Grant Agency of the Czech Republic – Economic and Social Determinants of Hostility (co-PI)
2013-2016	Grant Agency of the Czech Republic - Using Economic Experiments to Understand Discrimination and Inter-group Cooperation (PI)
2010-2012	Grant Agency of the Czech Republic, Postdoctoral grant – Poverty and Inter-temporal Choices (PI)
2010-11	Global Development Network – Formation of Other-Regarding Preferences (Co-PI)

# Curriculum Vitae

## Petr Cintula

Institute of Computer Science  
Czech Academy of Sciences  
Pod Vodárenskou věží 271/2  
182 07 Prague 8, Czech Republic

Born: [REDACTED]

Homepage: <http://www.cs.cas.cz/cintula>

ORCID: 0000-0002-3617-1392

ResearcherID: E-5785-2012

## Education and qualification

- Docent, Applied Mathematics, Czech Technical University in Prague, 1. 12. 2014  
Thesis title: *A General Framework for Mathematical Fuzzy Logic*
- Privatdozent, Computational Logic, Vienna University of Technology, 22. 5. 2013  
Thesis title: *Universal Methods in Mathematical Fuzzy Logic*
- PhD, Mathematical Engineering, Czech Technical University in Prague, 17. 2. 2005  
Thesis title: *From Fuzzy Logic to Fuzzy Mathematics*, Supervisor: Petr Hájek
- Masters (Ing.), Computer Science, Czech Technical University in Prague, 18. 6. 2001  
Thesis title: *The ŁΠ and ŁΠ<sub>½</sub> Logics*, Supervisor: Petr Hájek

## Employment history

2001–present	Institute of Computer Science, Czech Academy of Sciences, senior scientist (since 2013), director (2022–present), deputy director (2021–2022), head of the department of Theoretical Computer Science (2017–20), chairman of the board (2012–16)
2017	University of Cagliari, visiting researcher (July)
2013	University of Bern, visiting researcher (May–June)
2011–2012	Vienna University of Technology, visiting researcher (August–April)

## Research interests

- Abstract algebraic logic
- Non-classical modal and predicate logics and reasoning with graded notions
- Mathematical fuzzy logic, substructural logics, and non-classical mathematics

## Basic scientometric data

- 1 monograph, 46 journal papers, 4 book-chapters, and 17 papers in conference proceedings
- Citations: 900+ (Web of Science), 340+ (MathSciNet), 1100+ (Scopus), 2800+ (Google Scholar)
- H-index: 20 (Web of Science), 11 (MathSciNet), 21 (Scopus), 29 (Google Scholar)

## Research stays (for a month or more)

- University of the Witwatersrand, Johannesburg, South Africa (January 2019, July 2016)
- University of Sydney, Sydney, Australia (October–November 2018)
- La Trobe University, Melbourne, Australia (February–March 2017)
- University of Cagliari, Cagliari, Italy (July 2017)
- Research Institute for Mathematical Sciences, Kyoto, Japan (November 2015)
- University of Bern, Bern, Switzerland (May–June 2013)
- Vienna University of Technology, Vienna, Austria (from August 2011 till April 2012)
- Slovak Technical University, Bratislava, Slovakia (January 2004, February 2003)
- Johannes Kepler University, Linz, Austria (March–April 2007, February 2005, 2004)

## Notable invited lectures

- *Towards a general theory of lattice-valued models*, model theory session at XVIII Latin American Symposium on Mathematical Logic, Chile, 2019
- *Lattice-valued predicate logics*, XIV Congreso Dr. Antonio Monteiro, Argentina, 2017
- *Logic and Implication*, XXII Conference on Applications of Logic in Philosophy and the Foundations of Mathematics, Poland 2017
- *Substructural Logics: A Logical Glimpse at Residuated Lattices*, The 91st Workshop on General Algebra, Czech Republic, 2016
- *Logics of graded predicates*, ManyVal 2015, Switzerland, 2015
- *First-order non-classical logics: an order-based approach*, Compositional Meaning in Logic, Austria, 2014
- *From (Deductive) Fuzzy Logic to (Logic-Based) Fuzzy Mathematics*, European Conference on Symbolic and Quantitative Approaches to Reasoning with Uncertainty, Italy, 2009
- *Fuzzy Class Theory: A State of the Art*, Linz Seminar on Fuzzy Set Theory, Austria, 2009

## Awards

- Young researchers' award for outstanding achievements bestowed by the Czech Academy of Sciences, 2007
- Junior Scientist Award bestowed by the Learned Society of the Czech Republic, 2006
- Josef Hlávka award for young employees of the Czech Academy of Sciences, 2006
- 1st class award of the rector of the Czech Technical University for an outstanding PhD thesis, 2005
- Otto Wichterle award bestowed by the Academy of Sciences of the Czech Republic, 2005

## Grants (principal (co)-investigator)

- *Metamathematics of Substructural Modal Logics*, Czech Science Foundation GA22-01137S, 2022–2024
- *Reasoning with Graded Properties*, Czech Science Foundation GA18-00113S, 2018–2020
- *Predicate Graded Logics and their Applications to Computer Science*, Czech Science Foundation GA17-04630S, 2016–2019
- *Syntax Meets Semantics: Methods, Interactions, and Connections in Substructural logic*, 689176 of Horizon 2020 Marie Skłodowska-Curie RISE, 2016–2018
- *Modelling Vague Quantifiers in Mathematical Fuzzy Logic*, joint project of Austrian Science Fund I1897-N25 and Czech Science Foundation GF15-34650L, 2015–2018
- *Center of Excellence–Institute for Theoretical Computer Science (CE-ITI)*, GBP202/12/ G061 of the Czech Science Foundation, 2012–2018
- *An Order-Based Approach to Non-Classical Propositional and Predicate Logics*, GA13-14654S of the Czech Science Foundation, 2013–2016
- *A Multivalued Approach to Optima and Equilibria in Economics*, GAP402/12/1309 of the Czech Science Foundation, 2012–2014
- *Mathematical Fuzzy Logic in Computer Science*, GAP202/10/1826 of the Czech Science Foundation, 2010–2014 (Principal investigator since 2013 only)
- *Logical Foundations of Semantics*, GD401/09/H007 of the Czech Science Foundation, 2009–2012
- *Dynamic Formal Systems*, IAA900090703 of the Grant Agency of the Academy of Sciences of the Czech Republic, 2007–2010
- *Formal Theories of Mathematical Structures with Vagueness*, KJB100300502 of the Grant Agency of the Academy of Sciences of the Czech Republic, 2005–2007

## Academic supervision activity

- Postdoctoral researchers (formal supervision): J. Wannenburg (2021–22, ministry project); T. Moraschini (2018–19, MCSA.CZ project); I. Sedlár and A. Vidal (2018–20, MCSA.CZ projects)
- Postdoctoral researchers working on my projects: K. Yamamoto and N. Ferenz (2022–), L. Reggio (2018–19), P. Baldi (2018), A. Vidal (2016–18), T. Moraschini (2016–18), I. Sedlár (2016–18), S. Bonzio (2017)
- Master students: P. Rusnok (2008), J. Kučera (2006), J. Hytka (2006)
- Bachelor students: P. Fejl (2017)
- Member of the board of PhD study programs: Mathematical Engineering (FNSPE Czech Technical Uni., 2010–present); Artificial Intelligence and Biocybernetics (FEE Czech Technical Uni., 2013–present); Computer Science (FS Palacký Uni., 2013–present); Discrete Models and Algorithms (FMP Charles Uni., 2016–present); Algebra, Theory of Numbers and Mathematical Logic (FMP Charles Uni., 2016–20); and Logic (FA, Charles Uni., 2017–present)

## Teaching experience (semestral courses)

- *Mathematical Logic*, Czech Technical University, 2016/17–present
- *Foundations of Fuzzy Logic*, Czech Technical University, 2012/13, 2014/15
- *Fuzzy Logic*, Vienna University of Technology, 2011/12, 2013/14, 2015/16, 2017/18
- *Mathematical Fuzzy Logic*, Charles University, 2010/11, 2013/14
- *Applied Non-Classical Logics*, Czech Technical University, 2004/05–2006/07, 2008/09, 2013/14
- *General Theories of Logical Systems*, Charles University, 2005/06–2007/08, 2010/11, 2012/13

## Notable tutorials

- *A Gentle Introduction to Abstract Algebraic Logic*, invited tutorial, PhDs in Logic, Germany, 2017
- *A Gentle Introduction to Mathematical Fuzzy Logic*, invited tutorial, European Summer School on Fuzzy Logic and Applications, Czech Republic, 2016
- *Tutorial on Mathematical Fuzzy Logic* (with C. Noguera), Isralog, Israel, 2014
- *A Gentle Introduction to Mathematical Fuzzy Logic* (with C. Noguera), European Summer School in Logic, Language and Information, Germany, 2014
- *Mathematical Fuzzy Logic: First-Order and Beyond*, invited tutorial, Workshop ‘Information, Uncertainty, and Imprecision’, Czech Republic, 2013
- *Abstract Algebraic Logic: Theory and Applications* (with C. Noguera), European Summer School in Logic, Language and Information, Poland, 2012

## (Co-)chair of Program Committees

- *Logic, Algebra and Truth Degrees*, Paestum 2022
- *Non-Classical Modal and Predicate Logics*, Guangzhou 2017 and 2011
- *Linz Seminar*, Linz 2010
- *Non-Classical Mathematics*, Hejnice 2009

## (Co-)chair of the organization committees of scientific meetings

- *TACL 2017*, Prague 2017
- *ManyVal 2013*, Prague 2013
- *Logic Algebra and Truth Degrees*, Prague 2010
- *Logical Models of Reasoning with Vague Information*, Čejkovice 2009

## Member of Program Committees

- *Non-Classical Modal and Predicate Logics*, Bochum 2021
- *Logica*, Hejnice 2013–2020
- *Logic, Algebra and Truth Degrees*, Phalaborwa 2016, Vienna 2014, Kanazawa 2012, and Siena 2008
- *ManyVal*, Bucharest 2019 and Toulouse 2017
- *IEEE International Symposium on Multiple-Valued Logic*, Linz 2018 and Novi Sad 2017
- *Tbilisi Symposium on Language, Logic and Computation*, Tbilisi 2015
- *EUSFLAT*, Milan 2013, Aix-Les-Bains 2011, and Lisbon 2009
- *Topology, Algebra, and Categories in Logic*, Marseille 2011

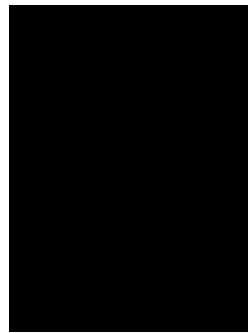
## Editorial work

- Associate editor of *Archive for Mathematical Logic*, 2012–present
- Area Scientific Editor of the *Journal of Applied Logic*, 2014–present
- Area editor of *Fuzzy Sets and Systems*, 2015–2018
- Member of the editorial board of *Soft Computing*, 2012–2015
- *Handbook of Mathematical Fuzzy Logic, volume 3* (with C. Fermüller and C. Noguera), vol. 58 of Studies in Logic, Mathematical Logic and Foundations, College Publications, 384 pages, 2015
- *Handbook of Mathematical Fuzzy Logic, volumes 1 and 2* (with P. Hájek and C. Noguera), vol. 37 and 38 of Studies in Logic, Mathematical Logic and Foundations, College Publications, 492 and 480 pages, 2011
- *Understanding Vagueness. Logical, Philosophical and Linguistic Perspectives*, (with C. Fermüller, L. Godo, and P. Hájek), vol. 6 of Studies in Logic, College Publications, 432 pages, 2011
- *Witnessed Years: Essays in Honour of Petr Hájek*, (with Z. Haniková and V. Švejdar), vol. 37 of Tributes, College Publications, 416 pages, 2009
- Special issues of *Logic Journal of the IGPL* “Non-Classical Modal and Predicate Logics” (with R. Iemhoff and S. Ju), 22(3):411–513, 2014 and (with Z. Weber and S. Ju), 27(4):385–623, 2019
- Special issue of *Fuzzy Sets and Systems* “Linz Seminar 2010” (with E.P. Klement and L. Stout), 197:1–97, 2012
- Special issue of *Journal of Logic and Computation* “Mathematical Fuzzy Logic” (with G. Metcalfe and C. Noguera), 21(5):715–862, 2011
- Special issues of *Fuzzy Sets and Systems* “Formal Methods for Fuzzy Mathematics, Approximation and Reasoning, Parts I and II” (with L. Běhounek, V. Novák, and I. Perfilieva), 159(14):1727–1835, 2008 and 160(8):1003–1053, 2009

## Additional professional activities

- Czech Society of Cybernetics and Informatics, member of the Scientific Council (2011–present), member of the Council (2007–16), chair of the *Svoboda award* bestowed by the society (2010–16)
- IT4Innovations Centre of Excellence, member of the Research Council (2015–21)
- Institute of Theory of Information and Automation of CAS, member of the Supervisory Board (2009–19)
- Working group of Mathematical Fuzzy Logic (100+ members from 20+ countries), coordinator (2007–16)
- Institute of Computer Science of CAS, chair of the Board (2012–17), member of the Board (2007–12)
- 28 published reviews for Mathematical Reviews, opponent of 5 PhD theses, and over 100 reviewing tasks for peer-reviewed conferences and journals (e.g. Annals of Pure and Applied Logic, Archive for Mathematical Logic, Fundamenta Informatiae, Fuzzy Sets and Systems, International Journal of Approximate Reasoning, Journal of Logic and Computation, Journal of Symbolic Logic, Logical Journal of IGPL, Mathematical Logic Quarterly, Studia Logica, Theoretical Computer Science)

# CURRICULUM VITAE



Prof. RNDr. Karel Hron, Ph.D.

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## Address

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## Description of academic career and positions

2007-2013	<b>Assistant Professor</b> Department of Mathematical Analysis and Applications of Mathematics, Faculty of Science, Palacký University in Olomouc
2013-2021	<b>Associate Professor</b> Department of Mathematical Analysis and Applications of Mathematics, Faculty of Science, Palacký University in Olomouc
2021-to present	<b>Professor</b> Department of Mathematical Analysis and Applications of Mathematics, Faculty of Science, Palacký University in Olomouc
2018-2022	<b>Vice-Dean for External Relations</b>
2018-2024	<b>Deputy Head of Department</b>
2024-	<b>Head of Department</b>

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## Education and training

2020	Professorship (prof., equivalent to Professor) in Applied Mathematics Faculty of Science, University of Ostrava, Ostrava, Czech Republic
2013	Habilitation (doc., equivalent to Associate Professor) in Mathematics – Applied Mathematics Faculty of Science, Masaryk University, Brno, Czech Republic
2008	RNDr. (University Doctor of Natural Sciences) in Applications of Mathematics in Economy Faculty of Science, Palacký University, Olomouc, Czech Republic
2005 – 2007	Ph.D. study in Applied Mathematics Faculty of Science, Palacký University, Olomouc, Czech Republic principal subjects: mathematical statistics, multivariate statistics thesis: <i>Twoepoch linear models with nuisance parameters</i>

	(supervisor: Prof. Dr. Lubomír Kubáček)
2006 – 2007	Research stay & training in Applied Statistics Dept. of Statistics and Probability Theory, Vienna University of Technology, Austria
2000 – 2005	principal subjects: multivariate data statistics, R software for statistical computing Master degree (Mgr., equivalent to MSc.) in Applications of Mathematics in Economy Faculty of Science, Palacký University, Olomouc, Czech Republic

## Main area of research

### *Statistical analysis of compositional data*

Compositional data are multivariate observations carrying relative information, popularly expressed in percentages, proportions, ppm, mg/kg, etc. Their statistical analysis reflects the specific nature of compositional data by considering log-ratios of the components rather than the original values and forming new easy-to-handle coordinates, where the standard statistical methods can be applied and properly interpreted. The concept of compositional data can be generalized also to probability density functions, which share the scale invariance property, under the Bayes spaces methodology.

## Highest academic prizes/recognition received

### Most important academic prizes/awards received

1. 1st price in national part of Competition in Student Research Activities (section Probability Theory, Statistics, Econometrics and Financial Mathematics (2004)
2. Palacký University Rector Price for the best student thesis in mathematics (2004, 2005)
3. TIES (The International Environmetrics Society) Best Student Presentation Award (2007)
4. Editor's Best Reviewer Award, Mathematical Geosciences (2017)
5. Simon's CRM Professor, McGill University, Montreal (2020, two months) – postponed to 2022/23 due to COVID-19 pandemic
6. INTUE (International Network of Time-Use Epidemiologists) Annual Award (2022)

### Most important activities and memberships in academic/scientific organizations

1. Member of Board of Directors, International Association for Statistical Computing - European Regional Section (2012-2016, 2020-2024)
2. Executive Committee Member (Publication Officer), International Association for Statistical Computing (2021-2023, 2023-2025)
3. International Statistical Institute, Elected Member (2024)
4. Council Member, International Association for Mathematical Geosciences (2020-2024, 2024-2028)
5. Secretary General, Association for Compositional Data (2017-2019)
6. Member of Scientific Board of Faculty of Science, Palacký University, Olomouc, Czech Republic (2014-)
7. Reviewer – peer reviews for international statistical and geological journals, cca 80 reviews in the last 5 years

## Publication activity

1 book: Filzmoser, P., Hron, K., Temp, M. *Applied Compositional Data Analysis*, Springer Series in Statistics. Springer, Cham, 2018

1 edited book: Filzmoser, P., Hron, K., Martín-Fernández, J.A., Palarea-Albaladejo, J. (eds.) *Advances in Compositional Data Analysis*. Springer, Cham, 2021.

8 chapters in books, cca 130 papers in peer-reviewed journals

142 items in Web of Science, 4469 cites (without self-citations), Hirsch index 32 (February 2025), actually ca. 650 cites per year.

Publication activity is focused on development of the logratio methodology for compositional data analysis and density data analysis (Bayes spaces) with a wide range of applications covering geochemistry, chemometrics and time-use epidemiology.

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## Most important research projects

1. **Distributional data analysis for geochemical mapping.** (25-15447S) – 2025-2027, principal investigator  
Fund provider: The Czech Science Foundation
2. **Generation and Transfer of Compositional Data Analysis Knowledge (CODA-GENERA).** (PID2021-123833OB-I00) – 2022-2025, member of the research team  
Fund Provider: Spanish Ministry of Science and Innovation and by ERDF A way of making Europe
3. **Generalized relative data and robustness in Bayes spaces.** (22-15684L) – 2022-2024, co-principal investigator (together with Peter Filzmoser, TU Wien)  
Fund provider: The Czech Science Foundation
4. **Optimizing the 24-h movement behaviors for obesity prevention in the post-pandemic era.** (22-02392S) – 2022-2024, member of the research team  
Fund provider: The Czech Science Foundation
5. **Separation of Geochemical Signals in Sediments: Application of Advanced Statistical Methods on Large Geochemical Datasets.** (19-01768S) – 2019-2021, principal investigator  
Fund provider: The Czech Science Foundation
6. **Identification of Regulatory Networks Controlling Pea Seed Coat Development Using Combination of RNA Sequencing, Protein and Metabolites Analysis.** (19-07155S) – 2019-2021, member of the research team  
Fund provider: The Czech Science Foundation
7. **Application of a Novel Compositional Data Analysis Approach for the Evaluation of Combined Effects of 24-hour Lifestyle Behaviors on Childhood Obesity.** (18-09188S) – 2018-2020, member of the research team  
Fund provider: The Czech Science Foundation
8. **Statistics in Metabolomics for Biomarker Research in Medicine.** (15-34613L) – 2015-2017, member of the research team  
Fund provider: The Czech Science Foundation, jointly with Austrian Science Fund FWF
9. **Functional Data Analysis and Related Topics.** (15-06991S) – 2015-2017, member of the research team  
Fund provider: The Czech Science Foundation
10. **Text, functional and other high-dimensional data in econometrics: New models, methods, applications.** (CA21163) – 2022-2025, member of the research team  
Fund provider: COST Association

11. **Statistical and Machine Learning Techniques in Human Microbiome Studies.** (CA18131) –  
2019-2023, member of the research team  
Fund provider: COST Association
12. **Soil Science & Archaeo-Geophysics Alliance.** (CA17131) – 2020-2023, member of the  
research team  
Fund provider: COST Association
13. **Computationally-Intensive Methods for the Robust Analysis of Non-Standard Data.** (IC1408)  
– 2015-2019, member of the research team, member of the Management Committee  
Fund provider: COST Association
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## Top 10 publications

- Genest, C., Hron, K., Nešlehová, J. *Orthogonal decomposition of multivariate densities in Bayes spaces and relation with their copula-based representation.* Journal of Multivariate Analysis, 198 (2023), 105228 (24 pages). DOI: 10.1016/j.jmva.2023.105228
- Hron, K., Machalová, J., Menafoglio, A. *Bivariate densities in Bayes spaces: orthogonal decomposition and spline representation.* Statistical Papers, 64 (2023), No. 5, 1629-1667. DOI: 10.1007/s00362-022-01359-z
- Fačevicová, K., Filzmoser, P., Hron, K. *Compositional cubes: A new concept for multi-factorial compositions.* Statistical Papers, 64 (2023), 955-985. DOI: 10.1007/s00362-022-01350-8
- Hron, K., Menafoglio, A., Palarea-Albaladejo, J., Filzmoser, P., Talská, R., Egozcue, J.J. *Weighting of parts in compositional data analysis: Advances and applications.* Mathematical Geosciences, 54 (2022), 71-93. DOI: 10.1007/s11004-021-09952-y
- Štefelová, N., Alfons, A., Palarea-Albaladajo, J., Filzmoser, P., Hron, K. *Robust regression with compositional covariates including cellwise outliers.* Advances in Data Analysis and Classification, 15 (2021), 869-909. DOI: 10.1007/s11634-021-00436-9
- Talská, R., Hron, K., Matys Grygar, T. *Compositional scalar-on-function regression with application to sediment particle size distributions.* Mathematical Geosciences, 53 (2021), 1667-1695. DOI: 10.1007/s11004-021-09941-1
- Talská, R., Menafoglio, A., Hron, K., Egozcue, J.J., Palarea-Albaladejo, J. *Weighting the domain of probability densities in functional data analysis.* Stat, 9 (2020), No. 1, e283 (13 pages). DOI: 10.1002/sta4.283
- Filzmoser, P., Hron, K., Templ, M. *Applied Compositional Data Analysis*, Springer Series in Statistics, Springer, Cham, 2018
- Fačevicová, K., Hron, K., Todorov, V., Templ, M. *General approach to coordinate representation of compositional tables.* Scandinavian Journal of Statistics, 45 (2018), No. 4, 879-899. DOI: 10.1111/sjos.12326
- Hron, K., Menafoglio, A., Templ, M., Hrůzová, K., Filzmoser, P. *Simplicial principal component analysis for density functions in Bayes spaces.* Computational Statistics and Data Analysis, 94 (2016), 330-350. DOI: 10.1016/j.csda.2015.07.007

## List of publications

### 1a) Books

- Filzmoser, P., Hron, K., Templ, M. *Applied Compositional Data Analysis*, Springer Series in Statistics, Springer, Cham, 2018

### 1b) Books (as editor)

Filzmoser, P., Hron, K., Martín-Fernández, J.A., Palarea-Albaladejo, J. (eds.) *Advances in Compositional Data Analysis*. Springer, Cham, 2021.

## 2) Peer-reviewed journal articles

- Nesrstová, V., Wilms, I., Hron, K., Filzmoser, P. *Identifying important pairwise logratios in compositional data with sparse principal component analysis*. Mathematical Geosciences, 57 (2025), 333-358.
- Janda, D., Gába, A., Hron, K., Arundell, L., Contardo Ayala, A.M. *Movement behaviour typologies and their associations with adiposity indicators in children and adolescents: A latent profile analysis of 24-h compositional data*. BMC Public Health, 24 (2024), 1553 (11 pages).
- Vindiš, J., Pelcová, J., Jašková, P., Hron, K. *The interplay between lying, sitting, standing, moving, and walking on obesity risk in older adults: A compositional and isotemporal substitution analysis*. BMC Geriatrics, 24 (2024), 1047 (10 pages).
- Pavlů, I., Machalová, J., Tolosana-Delgado, R., Hron, K., Bachmann, K., van den Boogaart, K.G. *Principal component analysis for distributions observed by samples in Bayes spaces*. Mathematical Geosciences, 56 (2024), 1641-1669.
- Matys Grygar, T., Radojičić, U., Pavlů, I., Greven, S., Nešlehová, J.G., Tůmová, Š., Hron, K. *Exploratory functional data analysis of multivariate densities for the identification of agricultural soil contamination by risk elements*. Journal of Geochemical Exploration, 259 (2024), 107416.
- Štefelová, N., Palarea-Albaladejo, J., Hron, K., Gába, A., Dygrýn, J. *Compositional PLS biplot based on pivoting balances: an application to explore the association between 24-hour movement behaviours and adiposity*. Computational Statistics, 39 (2024), 835-863.
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- Segura-Jiménez, V., Pedišić, Ž., Gába, A., Dumuid, D., Olds, T., Štefelová, N., Hron, K., Gómez-Martínez, S., Marcos, A., Castro-Piñero, J. *Longitudinal reallocations of time between 24-h movement behaviours and their associations with inflammation in children and adolescents: the UP&DOWN study*. International Journal of Behavioral Nutrition and Physical Activity, 20 (2023), 72 (12 pages).
- Grison, H., Janovský, M.P., Lisá, L., Hasil, J., Štefan, I., Hron, K., Hejcmán, M. *Magnetic and geochemical record of soil impacted by 300 years of Early Medieval settlement*. Catena, 231 (2023), 107368 (13 pages).
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- D'Elia, D., Truu, J., Lahti, L., Berland, M., Papoutsoglou, G., Ceci, M., Zomer, A., Lopes, M.B., Ibrahimi, E., Gruca, A., Nechyporenko, A., Frohme, M., Klammsteiner, T., Carrillo-de Santa Pau, E., Marcos-Zambrano, L.J., Hron, K., Pio, G., Simeon, A., Suharoschi, R., Moreno-Indias, I., Temko, A., Nedyalkova, M., Apostol, E.-S., Truică, C.-O., Shigdel, R., Hasić Telalović, J., Bongcam-Rudloff, E., Przymus, P., Babić Jordamović, N., Falquet, L., Tarazona, S., Sampri, A., Isola, G., Pérez-Serrano, D., Trajkovik, V., Klucar, L., Loncar-Turukalo, T., Havulinna, A.S., Jansen, C., Bertelsen, R.J., Claesson, M.J. *Advancing microbiome research with machine learning: Key findings from the ML4Microbiome COST action*. Frontiers in Microbiology, 14 (2023), 1257002 (8 pages).
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- Štefelová, N., de Sousa, J., Hron, K., Palarea-Albaladejo, J. Dobešová, D., Kvasnička, A., Friedecký, D. *Selective pivot logratio coordinates for PLS-DA modelling with applications in metabolomics.* Stat, 12 (2023), No. 1, e592 (15 pages).
- Fačevicová, K., Filzmoser, P., Hron, K. *Compositional cubes: A new concept for multi-factorial compositions.* Statistical Papers, 64 (2023), 955-985.
- Matys Grygar, T., Elznicová, J., Tůmová, Š., Kylich, T., Skála, J., Hron, K., Álvarez-Vázquez, M.Á. *Moving from geochemical to contamination maps using incomplete chemical information from long-term high-density monitoring of Czech agricultural soils.* Environmental Earth Sciences, 82 (2023), No. 1, 6 (21 pages)
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- Hron, K. *Remark on properties of bases for additive logratio transformations of compositional data*. Acta Univ. Palacki. Olomuc., Fac. rer. nat. Math., 47 (2008), 77-82.
- Hron, K. *Estimation of the first order parameters in the twoepoch linear model*. Acta Univ. Palacki. Olomuc., Fac. rer. nat. Math., 46 (2007), 43-50.
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### 3) Refereed book chapters

- Filzmoser, P., Hron, K., Menafoglio, A. *Logratio approach to distributional modeling*. In: Daouia, A., Ruiz-Gazen, A. (2021) Advances in contemporary statistics and econometrics. Festschrift in honor of Christine Thomas-Agnan. Springer, Cham: 451-470.
- Dumuid, D., Pedišić, Ž., Palarea-Albaladejo, J., Martín-Fernández, J.A., Hron, K., Olds, T. *Compositional data analysis in time-use epidemiology*. In: Filzmoser, P., Hron, K., Martín-Fernández, J.A., Palarea-Albaladejo, J. (2021) Advances in compositional data analysis. Festschrift in honour of Vera Pawlowsky-Glahn. Springer, Cham: 383-404.
- Filzmoser, P., Hron, K. *Compositional data analysis in chemometrics*. In: Tauler, R., Walczak, B., Brown, S.D. (2020) Comprehensive chemometrics: Chemical and biochemical data analysis, 2nd edition. Elsevier, Amsterdam: 641-662.
- Walach, J., Filzmoser, P., Hron, K. *Data normalization and scaling: Consequences for the analysis in omics sciences*. In: Jaumot, J., Bedia, C., Tauler, R. (2018) Data analysis for omics sciences: Methods and applications. Elsevier, Amsterdam: 165-196.

- Filzmoser, P., Hron, K. *Robust coordinates for compositional data using weighted balances*. In: Nordhausen, K., Taskinen, S. (2015) Modern nonparametric, robust and multivariate methods. Springer, Heidelberg: 167-184.
- Filzmoser, P., Hron, K. *Robustness for compositional data*. In: Becker, C., Fried, R., Kuhnt, S. (2013) Robustness and complex data structures. Springer, Heidelberg: 117-131.
- Filzmoser, P., Hron, K. *Robust statistical analysis*. In: Pawlowsky-Glahn, V., Buccianti, A. (2011) Compositional data analysis: Theory and applications. Wiley, Chichester: 59-72.
- Templ, M., Hron, K., Filzmoser, P. *robCompositions: An R-package for robust statistical analysis of compositional data*. In: Pawlowsky-Glahn, V., Buccianti, A. (2011) Compositional data analysis: Theory and applications. Wiley, Chichester: 341-355.

#### 4) Conference proceedings

- CoDaWork 2015, L'Escala, Spain: Tolosana-Delgado, R., van den Boogaart, K.G., Fišerová, E., Hron, K., Dunkl, I. *Joint compositional calibration: a geochronological example*
- MME 2014, Olomouc, CZ: Hrůzová, K., Hron, K., Todorov, V., Filzmoser, P. *Regression among parts of compositional data with an economic application*
- MME 2014, Olomouc, CZ: Fačevicová, K., Todorov, V., Hron, K. *Compositional tables analysis with application to manufacturing*
- SMPS 2014, Warsaw, Poland: Pavlačka, O., Hron, K. *Interval compositional data: Problems and possibilities*
- CoDaWork 2013, Vorau, Austria: van den Boogaart, K.G., Tolosana-Delgado, R., Hron, K., Templ, M., Filzmoser, P.: *Compositional regression with unobserved components or below detection limit values*
- CoDaWork 2013, Vorau, Austria: Fačevicová, K., Hron, K.: *Statistical analysis of 2x2 compositional tables*
- CoDaWork 2013, Vorau, Austria: Hrůzová, K., Hron, K.: *Compositional data analysis of German national accounts*
- CoDaWork 2013, Vorau, Austria: Kalivodová, A., Hron, K., Župková, M., Friedecký, D.: *Partial least squares for compositional data used in metabolomics*
- SIS 2013, Brescia, Italy: Hron, K., Filzmoser, P.: *Exploring compositional data with the robust compositional biplot*
- IAMG 2013, Madrid, Spain: Hron, K., Filzmoser, P., Templ, M., van den Boogaart, K.G., Tolosana-Dalgado, R. *Robust regression with compositional response: Application to geosciences*
- SMPS 2012, Konstanz, Germany: Hron, K., Filzmoser, P. *Robust diagnostics of fuzzy clustering results using the compositional approach*
- CoDaWork'11, Sant Feliu de Guíxols (Girona), Spain: Filzmoser, P., Hron, K., Templ, M. *Robust compositional data analysis*
- CoDaWork'11, Sant Feliu de Guíxols (Girona), Spain: Templ, M., Filzmoser, P., Hron, K. *Analysis of compositional data using robust methods. The R-package robCompositions*
- Robust 2010, Královy Hory, CZ: Hron, K. *Elementy statistické analýzy kompozičních dat*
- COMPSTAT 2010, Paris, France: Filzmoser, P., Hron, K. *Robust methods for compositional data*
- CDAM 2010, Minsk, Belarus: Hron, K., Templ, M., Filzmoser, P. *Exploratory compositional data analysis using the R-package robCompositions*

- CDAM 2010, Minsk, Belarus: Filzmoser, P., Hron, K. *Multivariate outlier detection with compositional data*
- SMPS 2010, Oviedo, Spain: Hron, K., Filzmoser, P. *Elements of robust regression for data with absolute and relative information*
- NTTS 2009, Brussels, Belgium: Templ, M., Filzmoser, P., Hron, K. *Robust imputation of missing values in compositional data using the R-package robCompositions*
- UNECE 2009, Neuchatel, Switzerland: Templ, M., Filzmoser, P., Hron, K. *Imputation of item non-responses in compositional data using robust methods*

## 5) Invited scientific presentations

### a) at scientific institutions

- Hron, K. *Density data analysis: Analyzing samples of probability distributions using Bayes spaces.* DaSSWeb, online, 11.2.2025 (invited lecture)
- Hron, K. *Analysing multivariate densities in Bayes spaces with implications for functional data analysis.* Politecnico di Milano, 15.5.2024 (invited lecture)
- Hron, K. *Bayes space for functional data analysis of probability density functions: from univariate to multivariate setting.* Universita del Piemonte Orientale, Novara, 14.5.2024 (invited lecture, IASC-ERS course)
- Hron, K. *Complex functional data: probability density functions as data objects.* Technical University of Denmark, 18.4.2024 (**spring school**)
- Hron, K., Nesrstová, V. *Statistical analysis of compositional data and its applications.* University of Hradec Králové, 23.1.2023 (invited lecture)
- Hron, K. *Applied compositional data analysis.* University of Jyväskylä, 17.-19.8.2022 (**summer school**)
- Hron, K. *Statistical analysis of compositional data: fundamental concepts and recent developments.* Masaryk University, Brno, 29.3.2022 (invited lecture)
- Hron, K. *Statistical analysis of compositional data.* Technical University of Ostrava, 12.11.2021 (invited lecture)
- Hron, K. *Orthogonal decomposition and functional data analysis of bivariate densities in Bayes spaces.* Politecnico di Milano, 20.10.2021 (invited lecture)
- Hron, K. *Regression analysis for multivariate compositional data using the logratio methodology.* University of Jyväskylä, online, 8.10.2021 (invited lecture)
- Hron, K. *Orthogonal decomposition and analysis of bivariate densities in Bayes spaces.* Charles University, online, 31.3.2021 (invited lecture)
- Hron, K. *Weighting of the domain in Bayes spaces: application to simplicial functional principal component analysis.* Lund University, 23.10.2019 (invited lecture)
- Hron, K. *Weighting of densities in Bayes spaces with application to simplicial functional principal component analysis,* Weierstrass Institute, Berlin, 19.6.2019 (invited lecture)
- Machalová, J., Hron, K. *Simplicial splines for representation of density functions,* Politecnico di Milano, 2.4.2019 (invited lecture)
- Hron, K., Fačevicová, K. *From compositional data to compositional tables,* KU Leuven, 19.6.2018 (invited lecture)
- Hron, K. *Regression analysis for compositional data using the logratio methodology,* University of Edinburgh, 23.6.2017 (invited lecture)
- Hron, K. *Statistical methods for compositional data,* Politecnico di Milano, 4.4.2017 (short course)

- Hron, K. *Statistical methods for compositional data*, University of Grodno, 21.3.2017 (short course)
- Hron, K. *Linear regression with compositional explanatory variables and its application*, Karl Franzens University, Graz, 31.1.2017 (invited lecture)
- Hron, K. *Robust compositional data analysis*, University of Girona, 7.7.2016 (short course)
- Hron, K., Fišerová, E. *Classical and robust methods for compositional data*, University of Porto, 18.5.2016 (short course)
- Hron, K. *Regression analysis for compositional data using the logratio approach*, TU Dortmund, 5.1.2016 (invited lecture)
- Hron, K. *Regression analysis for compositional data using the logratio methodology*, Toulouse School of Economics, 17.11.2015 (invited lecture)
- Hron, K., Filzmoser, P., Fišerová, E. *Linear regression with compositional explanatory variables*, University of Girona, 28.3.2012 (invited lecture)

*b) at conferences*

- The Spring HiTEC meeting and the Complex Data in Econometrics and Statistics Workshop 2024, Limassol, Cyprus: Hron, K., Štefelová, N., de Sousa, J., Palarea-Albaladejo, J., Dobešová, D., Kvásníčka, A., Friedecký, D. *Selective pivot logratio coordinates for classification in high-dimensional compositional data* (invited)
- Statistische Woche 2024, Regensburg, Germany: Hron, K., Filzmoser, P., Pavlů, I. *Robust statistics and outlier detection for relative data* (invited lecture)
- The Spring HiTEC meeting and the Complex Data in Econometrics and Statistics Workshop 2023, Limassol, Cyprus: Hron, K. *Statistical processing of probability density functions* (**invited short course**)
- ERCIM 2020, online: Hron, K., Menafoglio, A., Palarea-Albaladejo, J., Filzmoser, P., Talská, R., Egozcue, J.J. *Weighting of parts in compositional data and its applications* (invited)
- INTUE 2019, Olomouc, CZ: Hron, K. *Compositional data analysis: Fundamental concepts and recent developments* (keynote lecture)
- Final CroNoS meetings & Workshop on Multivariate Data Analysis 2019, Limassol, Cyprus: Hron, K. *Applied compositional data analysis* (**invited short course**)
- Biometria 2018, Aveiro, Portugal: Hron, K. *Biometry with compositional data* (invited short course)
- COMPSTAT 2018, Iasi, Romania: Hron, K., Rendlová, J., Fačevicová, K. *Compositional tables and their coordinate representations* (invited)
- TIES-GRASPA 2017, Bergamo, Italy: Hron, K., Filzmoser, P., Todorov, V. *Regression between parts of compositional data using symmetric balances* (invited)
- ERCIM 2017, London, UK: Hron, K., Menafoglio, A., Filzmoser, P. *Logratio approach to modeling of densities with application to multivariate functional principal component analysis* (invited)
- COMPSTAT 2016, Oviedo, Spain: Hron, K., Filzmoser, P., Gardlo, A. *Univariate analysis of compositional data using weighted balances* (invited)
- ERCIM 2015, London, UK: Hron, K., Filzmoser, P. *Interpretation of outliers in compositional data using the R-package mvoutlier* (invited)
- ERCIM 2013, London, Great Britain: Hron, K., Fačevicová, K., Vencálek, O. *Statistical analysis of compositional tables in coordinates* (invited)
- SMPS 2012, Konstanz, Germany: Hron, K., Filzmoser, P.: *Robust diagnostics of fuzzy clustering results using the compositional approach* (invited)
- ERCIM 2012, Oviedo, Spain: Hron, K., Filzmoser, P., Templ, M., van den Boogaart, K.G., Tolosana-Delgado, R.: *A unified approach to classical and robust regression for compositional data* (invited)

RSME 2011, Ávila, Spain: Hron, K., Filzmoser, P.: *Mathematical elements in robust statistics for CODA* (invited)

SMPS 2010, Oviedo, Spain: Hron, K., Filzmoser, P. *Elements of robust regression for data with absolute and relative information* (invited)

ERCIM'09, Limassol, Cyprus: Hron, K., Filzmoser, P., Reimann, C. *Robust principal components for compositional data* (invited)

A full list of conference contributions is available at

<https://kma.upol.cz/data/storage/source/8/publications2.pdf>.



# Životopis

## Magdaléna Jacková

### Zaměstnání:

2011–: Ústav pro českou literaturu AV ČR, v.v.i., oddělení pro výzkum starší literatury

2003–2021: Institut umění–Divadelní ústav Praha, Kabinet pro studium českého divadla

2001–2003: Divadelní ústav Praha, oddělení bibliografie

### Stipendia:

2004–2005: studium v rámci programu Erasmus na Université Paris IV – Sorbonne (5 měsíců)

2004: Intensive Summer Course of Ancient Greek Drama, Epidaurus

(2 týdny)

### Vzdělání:

2002–2010: doktorské studium na Katedře divadelní vědy FF UK v Praze. Disertační práce:

“Jezuitské školské drama v Praze v 1. polovině 18. století”

1994–2002: studium oborů francouzština, latina a divadelní věda na FF UK v Praze. Diplomová

práce: "Hry na novoměstské jezuitské koleji ve 20. letech 18. století (Katedra divadelní vědy)"

1990–1994: gymnázium na Sladkovského nám., Praha

### Referáty na konferencích

1) JACKOVÁ, Magdaléna: *Bohuslav Balbín jako teoretik dramatu*. Příspěvek na konferenci "BB400. Ó krásu země české, vlastenče náš!", Klatovy 2021.

2) JACKOVÁ, Magdaléna: *Staging of Early Modern Biblical Plays from Czech Lands*. Příspěvek na mezinárodní konferenci "New results in the research of theatre and drama (17–19<sup>th</sup> century)", Eger (Maďarsko) 2021.

3) JACKOVÁ, Magdaléna: *Epický narrativ v dramatické formě*. Příspěvek na workshopu " Dílna diachronní narratologie II. Narrativní a textová koherence: absence, latence, (ne)samořejmost", Praha 2020.

4) JACKOVÁ, Magdaléna: *Bumbálek a paní Malenka. Netypický hrdina jedné netypické jezuitské hry o jednodenním králi*. Příspěvek na konferenci "Letní teatrologické sympozium", Mikulov 2020.

5) JACKOVÁ, Magdaléna: *Krutý tyran a mordýř Čech. Václav IV. v raně novověkém nepomucenském dramatu*. Příspěvek na workshopu "Král se špatnou pověstí. Utváření obrazu a pověsti českého a římského krále Václava IV.", Praha 2019.

6) JACKOVÁ, Magdaléna: *Comment faire la Bible dramatique?* Příspěvek na mezinárodní konferenci " Theory and Practice in 17th–19th Century Theatre", Eger (Maďarsko) 2018.

7) JACKOVÁ, Magdaléna: *Prologues, Choruses and Epilogues in Three Tobias Plays from the Czech Lands*. Příspěvek na mezinárodní konferenci "17th International Congress of the International Association for Neo-Latin Studies", Albacete (Španělsko) 2018.

- 8) Bobková-Valentová, Kateřina, JACKOVÁ, Magdaléna: *Japan and Japanese in Jesuit School Plays from the Provincia Bohemia SJ*. Příspěvek na mezinárodní konferenci "Japan on the Jesuit Stage", Vídeň 2018.
- 9) JACKOVÁ, Magdaléna: *Three Latin Plays about John the Baptist: a Comparison of the 16th and 18th Century Model Dramas*. Příspěvek na mezinárodní konferenci "Vzorové drama raného novověku", Praha 2017.
- 10) JACKOVÁ, Magdaléna: *Jeden oříšek pro Popelku aneb Raně novověké biblické drama v českých zemích*. Příspěvek na konferenci "Perspektivy teatrologie", Praha 2017.
- 11) JACKOVÁ, Magdaléna: *Humanistické drama druhé poloviny 16. století v českých zemích*. Příspěvek na konferenci "Matouš Collinus z Chotěřiny (1516–1566)", Kouřim 2016.
- 12) JACKOVÁ, Magdaléna: *Vedlejší části dramatu u Senecy a v jezuitských školských hrách z českých zemí*. Příspěvek na kolokviu Roma argentea MMXV, pořádaném Ústavem řeckých a latinských studií FF UK, Praha 2015.
- 13) JACKOVÁ, Magdaléna: *Prologues, Choruses and Epilogues in Jesuit School Plays from Provincia Bohemia SJ*. Příspěvek na mezinárodní konferenci A szövegtől a szcenikáig. Kutatások a korai dráma- és színháztörténet területén, Eger 2015.
- 14) JACKOVÁ, Magdaléna: *Subjects of Jesuit School Plays from Provincia Bohemia SJ in 1700–1750*. Příspěvek na 16th International Congress of the International Association for Neo-Latin Studies, Vídeň 2015.
- 15) JACKOVÁ Magdaléna: *The End of School Year on Stages of Jesuit Schools in the Bohemian Province*. Příspěvek na mezinárodní konferenci Theatrum Mundi: Latin Drama in Renaissance Europe, Oxford 2013.
- 16) JACKOVÁ, Magdaléna : *Láska, žárlivost a nenávist na jevištích jezuitských gymnázií*. IV. bienále České společnosti pro výzkum 18. století – Láska, vášeň, emoce mezi barokem a romantismem, Praha 2013.
- 17) JACKOVÁ Magdaléna: *Saint Jean Népomucène sur la scène théâtrale des jésuites en Bohême*. Příspěvek na mezinárodní konferenci Saints rois et saints patrons dans l'Europe catholique de l'Epoque moderne, Praha 2013.
- 18) Bobková-Valentová Kateřina, JACKOVÁ Magdaléna: *Novus Indiarum Phoebus – Franciscus Xaverius on Jesuit School stages of the Czech Province*. Příspěvek na mezinárodním kongresu Historická Olomouc XIX – Svatý František Xaverský a jezuitská kultura v českých zemích, Olomouc 2012.
- 19) JACKOVÁ, Magdaléna: *Postava světce v jezuitských školských hrách*. Příspěvek na konferenci Náboženské divadlo v raném novověku, Hradec Králové 2011.
- 20) JACKOVÁ, Magdaléna: *A la recherche du temps des Lumières dans le drame jésuite en Bohême entre 1730–1745*. Příspěvek na 13. Internatiolaner Kongress zur Erforschung des 18. Jahrhunderts, Graz 2011.

21) JACKOVÁ, Magdaléna: *Veni, puer, disce mori (Motiv smrti v jezuitských školských hrách)*. XIX. Letní škola klasických studií, Praha 2011.

### **Granty**

#### **Hlavní řešitel**

- 1) Latinské biblické hry v českých zemích (2022–2024, GA ČR)-
- 2) Raně novověké biblické drama v českých zemích (2017–2019, GA ČR).
- 3) Jezuitské školské hry z českých zemí určené gramatikálním třídám (2012-2014, GA ČR).

### **Mezinárodní spolupráce**

- 1) JACKOVÁ Magdaléna: *Das Schuldrama der Jesuiten in den böhmischen Ländern*. Přednáška na pozvání v Ludwig Boltzmann-Institut für Neulateinische Studien, Innsbruck 2013.

### **Pedagogická a popularizační činnost**

- 1) Vystoupení v pořadu "Živě s jezuity" v TV Noe, 25. 9. 2020
- 2) Jezuité, škola a divadlo. Přednáška v rámci Podzimní Schólé v Holostřevech, listopad 2018.
- 3) Beseda o jezuitském školském divadle. Přednáška v rámci Školy českého jazyka a literatury pro pedagogy pořádané ÚČL, říjen 2018.
- 4) Hry z Bible a s Bibli. Přednáška pro studenty Arcibiskupského gymnázia v Praze v rámci cyklu Agora, březen 2017.
- 5) Jezuité a jejich divadlo pro děti a mládež. Přednáška v rámci Dne latiny pořádaného Ústavem řeckých a latinských studií FF UK, listopad 2016.

### **Uspořádání konference**

- 1) Mezinárodní konference *Vzorové drama raného novověku*, 12.–14.10. 2017. Spoluorganizátorka společně s Kateřinou Bobkovou-Valentovou (Historický ústav AV ČR) a Josefem Försterem (Kabinet pro klasická studia FLÚ AV ČR).

### **Ocenění:**

- 2003: 1. místo v soutěži Teatrologické společnosti o Cenu Václava Königsmarka za diplomovou práci *Hry na novoměstské jezuitské kolejí ve 20. letech 18. století*.
- 2011: 2. místo v kategorii poezie v soutěži o Cenu Jiřího Levého pro mladé překladatele za překlad latinsko-francouzského středověkého dramatu *Suscitatio Lazari*.
- 2012: 1. místo v soutěži o Cenu Alžběty Westonie za překlad její básně *In hortos ejusdem*

### **Členství v odborných organizacích:**

Teatrologická společnost (2006–2012 členka výboru, 2010–2012 místopředsedkyně).

Česká společnost pro výzkum 18. století

Jednota klasických filologů

International Association for Neolatin Studies

# ŠTĚPÁN JURAJDA

*Economics Institute of the Czech Academy of Sciences*

CERGE-EI, Politických vezňů 7, Praha, Czech Republic; E-mail: [REDACTED]

EDUCATION	Prague School of Economics (University of Economics, Prague), M.Sc., 1992 Field: Econometrics and Operations Research, with honors. University of Pittsburgh, M.A., 1995; Ph.D., 1997; Field: Labor Economics
EMPLOYMENT	CERGE-EI: Center for Economic Research and Graduate Education, Charles University, and Economics Institute, the Czech Academy of Sciences: Assistant Professor 1997-2003; Associate Professor / Docent 2004-2014; / Full Professor since 2014 Deputy Director for Research 2000-01, 2005-07; Director 2009-2013 Deputy Minister of Science, Research and Innovation, Office of the Government of the Czech Republic, 2022-2023
VISITING POSITIONS	Department of Economics, Princeton University, Research Fellow, 1999-2000 European University Institute, Senior Fellow, Oct-Dec 2014 University of Edinburgh, Visiting Professor, Mar-Apr 2015
PUBLICATIONS (WoS h-index=11, sum of times cited=350, Google Scholar h=23, 1802citations)	<p>“Preexisting social ties among Auschwitz prisoners support Holocaust survival” (with T. Jelínek and M. Bělín) <i>Proceedings of the National Academy of Sciences (PNAS)</i> 2023 Vol. 120 No. 29</p> <p>“Forced migration, staying minorities, and new societies: Evidence from post-war Czechoslovakia” (with J. Grossmann and F. Roesel) accepted in <i>American Journal of Political Science</i></p> <p>“Minimum Wages, Wages, and Price Pass-through: The Case of McDonald’s Restaurants” (with O. Ashenfelter), <i>Journal of Labor Economics</i>, vol. 40, S1: S179-S201, 2022</p> <p>“Czech Kurzarbeit: First Evidence from the First Pandemic Wave” (with P. Doleželová) <i>Czech Journal of Economics and Finance (Finance a úvěr)</i> 71(1): 2–32, 2021</p> <p>“Names and Behavior in a War” (with D. Kovac) <i>Journal of Population Economics</i> 34(1): 1–33, 2021.</p> <p>“Gender in Banking and Mortgage Behavior” (with R. Janhuba) <i>Applied Economics Letters</i>, 25(20): 1432-1435, 2018.</p> <p>“Scientific Publication Performance in Post-Communist Countries: Still Lagging Far Behind” (with S. Kozubek, D. Münich, and S. Škoda) <i>Scientometrics</i> 112(1): 315–328, 2017.</p> <p>“Gender Composition of College Graduates by Field of Study and Early Fertility” (with A. Bičáková) <i>Review of Economics of the Household</i>, 15(4): 1323–1343, 2017.</p> <p>“Alphabetical Order Effects in School Admissions” (with D. Münich) <i>Research Papers in Education</i> 31(4): 483-498, 2016.</p> <p>“Candidate Ballot Information and Election Outcomes: The Czech Case” (with D. Münich) <i>Post-Soviet Affairs</i> 31(5): 448-469, 2015.</p> <p>“Organization and Firm Performance in the Czech Republic” (with J. Stančík) <i>Prague Economic Papers</i> (1): 85-110, 2013.</p> <p>“Foreign Ownership and Corporate Performance in the Czech Republic” (with J. Stančík), <i>Czech Journal of Economics and Finance (Finance a úvěr)</i> 62 (4): 306-324, 2012.</p> <p>“Gender Gap in Admission Performance under Competitive Pressure” (with D. Münich) <i>American Economic Review: Papers and Proceedings</i> 101(3): 514–18, 2011.</p> <p>“Financial Development and Corporate Growth in the EU Single Market” (with J. Bena) <i>Economica</i>, 78(311): 401–428, 2011.</p> <p>“Admission to Selective Schools, Alphabetically” (with D. Münich) <i>Economics of Education Review</i> 29 (6): 1100–1109, 2010.</p> <p>“Regional Unemployment and Human Capital in Transition Economies” (with K. Terrell) <i>Economics of Transition</i>, 17 (2): 241–274, 2009.</p> <p>“Czech Female Managers and their Wages” (with T. Paligorova) <i>Labour Economics</i>, 16: 342–351, 2009.</p>

- “Job Reallocation in Two Cases of Massive Adjustment in Eastern Europe” (with K. Terrell) [World Development](#) 36 (11): 2144–2169, 2008.
- “Occupational Gender Segregation in the Czech Republic” (with M. Franta) [Czech Journal of Economics and Finance \(Finance a úvěr\)](#) 57 (5-6): 255-271, 2007.
- “When Do ‘Female’ Occupations Pay More?” (with H. Harmgart) [Journal of Comparative Economics](#), 35 (1): 170–187, 2007.
- “Gender Segregation and Wage Gap: An East-West Comparison,” [Journal of the European Economic Association, Papers and Proceedings](#), 3: 598-607, 2005.
- “Czech Returns to Schooling: Does the Short Supply of College Education Bite?” [Czech Journal of Economics and Finance \(Finance a úvěr\)](#), 55 (1-2): 83-95, 2005.
- “Recalls and Unemployment Insurance Taxes,” [Applied Economics Letters](#), 11: 651-56, 2004.
- “Gender Wage Gap and Segregation in Enterprises and the Public Sector in Late Transition Countries,” [Journal of Comparative Economics](#), 31 (2): 199-222, 2003.
- “Job Growth in Early Transition: Comparing Two Paths,” (with K. Terrell) [Economics of Transition](#), 11 (2): 291-320, 2003.
- “Unemployment Insurance and the Timing of Layoffs and Recalls” [Labour](#), 17: 383-389, 2003.
- “Understanding Long-Term Unemployment in the Czech Republic,” (with D. Münich) [Czech Journal of Economics and Finance \(Finance a úvěr\)](#), 53 (1): 11-30, 2003.
- “Unemployment Spells and the Extended Unemployment Benefits in Local Labor Markets,” (with F. Tannery) [Industrial and Labor Relations Review](#), 56 (2): 324-348, 2003.
- “Estimating the Effect of Unemployment Insurance Compensation on the Labor Market Histories of Displaced Workers,” [Journal of Econometrics](#), 108 (2): 227-252, 2002.
- “Education and Wages in the Czech and Slovak Republics During Transition,” (with R. Filer and J. Plánovský) [Labour Economics](#), 6 (4): 581-593, 1999.

#### Selected Publications outside of the Web of Science:

- “Statistical Analysis of the Holocaust in the Czech Republic: Examples and Future Possibilities” (with T. Jelínek) [S:I.M.O.N. Shoah: Interventions. Methods. Documentation](#), VWI, 2021, 8(2): 58-71.
- “Statistical Models in Holocaust Research” (with T. Jelínek, T. Fedorovič, and M. Bělín) [Soudobé dějiny / Czech Journal of Contemporary History](#), 2022, 29 (2), p. 441-47.
- “How to Overhaul the Labor Market: Political Economy of Recent Czech and Slovak Reforms” (with Katarina Mathernova) World Bank Working Paper No. 31433, World Bank, 2004
- “Markets and Growth,” (with Janet Mitchell) in Gary McMahon and Lyn Squire, Eds., [Explaining Growth: A Global Research Project](#), Palgrave Macmillan, UK, 2003
- [Forecasting Education and Training Needs in Transition Economies](#), (with G. Huges, D. Münich, and N. Campos) National Educational Fund, Prague, 2000

#### WORK IN PROGRESS / SUBMITTED

- “Cross-country Comparisons of Wage Rates: The McWage Index” (with O. Ashenfelter)
- “How Low Are US Wages? McWage Evidence” (with O. Ashenfelter)
- “Long-Term Health Costs of Combat Experience” (with D. Kovac)
- “Field-of-Study Homogamy” (with A. Bičáková), [IZA DP No. 9844](#)
- “LATE Estimators under Costly Non-Compliance in Matching Markets” (with M. Drlje),  
[CERGE-EI WP no. 686 / IZA DP No. 15130](#)
- “Surviving Theresienstadt: The Social Structure of a Nazi Ghetto (with T. Jelínek and M. Bělín)  
[IZA DP No. 15749](#)
- “Who Divorces Whom: Unilateral Divorce Legislation and the Educational Structure of Marriage” (with G. Afunts) [IZA DP No. 15749](#)
- “Voting under Debtor Distress” (with J. Grossmann) [CERGE-EI WP no. 744](#)

#### AWARDS AND FELLOWSHIPS

- Gold Commemorative medal of Charles University, Prague, 2020  
Fernand Braudel Senior Fellowship, European University Institute, fall of 2014

Silver Commemorative medal of Charles University, Prague, 2014  
 Svejnar-Terrell Prize for Teaching Excellence at CERGE-EI: 2008, 2006, 2001  
 Otto Wichterle Prize for young scientists, Academy of Sciences of the Czech Republic, 2004  
 NSF-NATO Post-Doctoral Fellowship in Science and Engineering, 1999  
 Andrew Mellon Pre-Doctoral Fellowship, 1995, 1996

## RESEARCH GRANTS

Volkswagen Foundation: “The Rise of Populist Parties in Europe,” Czech team leader, 2020-2023  
 Czech Science Foundation (GAČR): “Surviving Theresienstadt” principal investigator 2019-2021  
 Karel Janecek Foundation (NFKJ) Research Grant “Names and Success”, PI, 2011-2013.  
 EU FP7 SSH: “Intangible Capital and Innovations: Drivers of Growth in the EU” partner 2008-10  
 Global Development Network: “Financial Institutions and Firm Development” partner, 2006;  
 “Czech School System: Potential Discrimination Based on the Alphabet” 2005; “Czech  
 Returns to Schooling,” coordinator, 2004; “The speed of transition” coordinator, 2002  
 EBRD: “Institutional development and international integration: Strategies for catch-up growth in  
 transition economies and for EBRD operations,” partner, 2004 - 2005.  
 U.S. AID: WDI - CERGE-EI - USU Think Tank Partnership “New Opportunities for Economic  
 Research and Policy Analysis in Transition Economies,” partner, 2002-2003, 2003-2004  
 Czech Science Foundation (GAČR): “Economic, Social and Cultural Sources of Educational  
 Inequalities: First Phase of a Longitudinal Research,” partner, 2003-2006  
 Czech National Education Fund: “Education, R&D as Key Factors of Growth,” partner, 2003  
 Volkswagen Foundation: “The Evolution of Wage Structures under Different Transition  
 Regimes,” principal investigator, 2000-2001  
 NSCEER: “Wages and Job Mobility During the Transition: Retrospective Evidence from the  
 Czech Republic,” partner, 1999-2000

## COURSES TAUGHT

- Ph.D. Advanced Micro-Econometrics, CERGE-EI, 1997-98, 2001, 2003-10, 2012-13, 2015-17, 2020-21  
 Labor Economics, CERGE-EI, 2002  
 Research Methodology Seminar, CERGE-EI, 2007-2008, 2016-18
- M.A. Labor Economics, Institute of Economic Studies, FSV, Charles University, 2007-2009  
 Economic Policy Analysis, Institute of Economic Studies, Charles University, 2010-13
- B.A. Introductory Macroeconomics, University of Pittsburgh, 1996  
 Intermediate Microeconomics, CERGE-EI, 1998, 2002

Ph.D. THESIS ADVISEES at CERGE-EI unless noted otherwise (with initial placement)

Chair:

Pavel Čížek “Robust Estimators” 2002 (Tilburg University), Karin Joeveer “Corporate Finance” 2007 (Keele University), Teodora Paligorova “Managerial Compensation” 2007 (Bank of Canada), Kristjan Olari Leping “Wages in Estonia” 2008 at University of Tartu (U. of Tartu), Juraj Stančík “FDI Effects” 2009 (JRC, European Commission), Zvezda Dermendzhieva “Migration and Remittances” 2010 (postdoc at University of Regensburg), Lubomira Anastassova “Migrants and Agglomeration Effects” 2010 (London Development Agency), Filip Pertold “Peer Effects in Youth Smoking” 2010 (post-doc at Aarhus University), Barbara Gebicka “College Education and College Jobs” 2011 (post-doc at Aarhus University), Maksim Yemelyanau “Inequality in Belorussia and Ukraine” 2012 (BEROC), Jekaterina Kulomina “Local Politics” 2019 (Bank of Ireland), Marin Drlje “Econometrics of Matching Markets” 2021 (thesis chapter published in the QJE), Jakub Grossmann “Local Labor Markets” 2021 (CNB), Kristina Hrehova (2023 submitted, ISP MPSVR SK), Matej Belin (2023, submitted, ISP MPSVR SK), Sergii Maksymovych (2023, submitted), Geghetsik Afunts (2023, submitted), Alena Skolkova (2023, nearly submitted, post-doc at PF UK)

Member:

Andrei Timofeev (GSU), Jiří Podpiera (IMF), Jan Plánovský (Eurostat), Bersant Hobdari (Copenhagen Business School), Kamil Galuščák (ČNB), Tomáš Kadlec (McKinsey), Alexandr Černý (KPMG), Alexander Klein (U of Kent), Ondřej Rydval (MPG), Anna Lovasz at U of Washington (Ec. Institute, Budapest), Tomáš Konečný (ČSas), Michal Franta (ČNB), Anastasiya Shamshur (AAU), Philipp Kraft (ERGO), Marián Dinga (Raiffeisen Bank), Fusako Tsuchimoto (OECD), Peter Ondko (Arthur D. Little), Olga Popova (postdoc, U of Regensburg), Dragana Stanisic (CU), Martin Guzi (IZA), Nargiza Maksudova (CU), Dorota Kowalczyk (UBS), Klára Kalíšková (VŠE), Eva Hromádková (ČNB), Jana Cahlíková (MPG), Miroslava Federičová (VŠE), Liyousew Borga (U of Luxembourg post-doc), Radek Janhuba (Sellforte, Helsinki), Dejan Kovac (Princeton University post-doc), Danijela Vuletić (ERGE post-doc), Ekaterina Travova (post-doc at University of Copenhagen), Oleksiy Kyrychenko (Radboud University).

M.A. THESIS ADVISEES at CERGE-EI unless noted otherwise; Chair:

Smirnov Maksim, Danylenko Alona, Pavlova Margarita; J. Schwarz at IES FSV (CNB).

## INVITED PRESENTATIONS

2023: IWH Halle, University of Bristol; 2022: University of Bayreuth; 2021: European Holocaust Research Infrastructure (EHRI); 2020: Institute for Employment Research (IAB), Higher School of Economics Moscow; 2019: WU Vienna, University of Bath; 2016: Higher School of Economics St. Petersburg; 2014/15: Princeton University, Collegio Carlo Alberto Turin, Paris School of Economics, University of Edinburgh, EIEF Rome, European University Institute, RWI Essen, University of Manchester, University of Kent; 2008/9: Tilburg University, London School of Economics, Centre for Economic Performance; European University Institute, 2005, 2007; EERC, Kiev, 2007; Central European University, Budapest, 2005; London Business School, 2005; Institute for the Study of Labor, IZA, Bonn, 2001, 2004; New Economic School, Moscow, 2003; University of Linz, 2002; University of Michigan, 2000, 2002; Princeton University, 1999, 2000; SITE, Stockholm School of Economics, 1999; University of Pittsburgh/Carnegie Mellon University, 1997.

## CONFERENCE AND WORKSHOP PRESENTATIONS

Lessons and Legacies Conference, Czech Academy of Sciences, Prague Nov 2023

European Association of Labour Economists: Padua 2022, Gent 2016, Pafos 2011, London 2010,

Amsterdam 2008, Oslo 2007, San Francisco 2005, Seville 2004, Stockholm 03, Paris 02

European Political Science Association Conference: Prague 2022

Authors Conference, Journal of Labor Economics volume in honor of Alan Krueger, 2020

International Comparisons of Income, Prices and Production: 2019 University of Groningen; 2017

Princeton University; 2015 CERGE-EI; 2014 University of California, Davis; 2012

University of Pennsylvania

GEP/NICEP workshop on Economic Roots of Populism, University of Nottingham 2019

Royal Economic Society Annual Conference, Brighton 2018

IZA World Labor Conference, Berlin 2018

European Economic Association annual conference: online 2020, Lisbon 2017, Vienna 2006,

Amsterdam 2005, Madrid 2004, Bolzano 2000

Economics of Education Association, Murcia 2017

American Economic Association annual conference: Chicago 2007, Denver 2011

Czech Economic Society annual conference, Prague: Nov 2008, 2006, and 2004

CEPR/WDI Transition Economics conferences: Moscow 2000, Portoroz 2001, Budapest 2003

CEPR/LSE/NHH conference “Corporate Finance and Risk Management,” Bergen, May 2007

EBRD/London Business School “Unemployment in Central and Eastern Europe,” London 2007

IZA/EBRD “Labor Market Dynamics, the Role of Institutions and Internal Labor Markets in

Transition and Emerging Market Economies,” Bologna 2005

USAID Social Transition Sector Networking workshop, Prague 2005

Employment and Social Affairs DG of the European Commission workshop “Employment, productivity and wage structures in Europe,” Brussels 2005 (invited)

Banco de Portugal conference “European Labour Markets and Education,” Algarve 2005  
 SITE (Stockholm School of Economics) annual conference, Kiev 2005 (invited)  
 MacArthur Research Network on Inequality and Economic Performance workshop “Political Economy of Transition Economies,” Prague, September 2004  
 Congress of the Czechoslovak Society of Arts and Sciences, Palacky University, June 2004  
 European Science Foundation SCSS exploratory workshop “Transition Meets Development,” Stockholm, December 2003 (invited)  
 Latin American and Caribbean Economic Association annual congress: Madrid, October 2002  
 IZA/WDI conference “Labor Markets in Emerging Markets,” San Jose, Costa Rica, April 2002  
 CEPR/EUI conference “Labour Demand, Education and Social Exclusion,” Florence, June 2001  
 CREI workshop on “Unemployment in Transition Economies,” Barcelona, October, 2001  
 IZA/WDI “Labor Markets in Transition Economies” conference in Bonn, May 2000  
 CEPR Transition Economics Workshop for Young Academics, Budapest, May 1999

#### PUBLIC LECTURES, DISCUSSANT OR PANELIST IN POLICY CONFERENCES

OECD MicoBERD conference on support for business innovation, 2022, panelist  
 Science Systems Conference, Academy of Sciences, Bosnia & Herzegovina, 2021, presentation  
 SCI-PO Alevia 2021 Conference on Measuring Impacts of R&D Support, panelist  
 7th EJ NOK Evaluation Conference, Czech Ministry of Regional Development, 2021, panelist  
 Science for Society Conference, Masaryk University 2021, presentation on Covid long-term costs  
 Trends on Czech Labor Markets: Robots and AI; Confederation of Industry, 2020, presentation  
 PREF.cz conference on post-pandemic education in the Czech Republic, 2020, panelist  
 Science Fighting Covid-19 Conference, IMG Prague, Ministry of Education, 2020, presentation  
 Lessons Learned from the Covid-19 Pandemic, 3LF Charles University, 2020, presentation, panel  
 Parenthood and Careers in Science, Parliament of the Czech Republic, October 2019, panelist  
 Women in Politics after a Hundred Years, Parliament of the Czech Republic, June 2019, panelist  
 EIB Investment Conference at the Czech National Bank, Nov 2018, chair of panel  
 Moderator of debate of Prague Mayoral candidates, American Chamber of Commerce, Sep 2018  
 Young Economists’ Meeting, Masaryk University, Brno, Jun 2017, keynote lecture  
 Center for Theoretical Study, Charles University/Czech Academy of Sciences. Apr 2017, lecture  
 Diversity in Leadership conference, Ministry of Labor / Business for Society, Jun 2014, lecture  
 Seminar on Equality and Discrimination, Czech Public Defender of Rights, Feb 2013, panelist  
 Seminar on Gender Equality in Leadership, Parliament of the Czech Republic, Nov 2012, lecture  
 Equal Access to Education, Czech Ministry of Education and Ombudsman, Sep 2012, panelist  
 Unemployment Policy of the Czech Social Democratic Party, Prague, May 2012, panelist  
 Knowledge-Research-Education Conference, National Technical Library, Prague 2011, lecture  
 Innodrive Conference: Intangible Capital and Innovations, Brussels, CEPS, Feb 2011, panelist  
 16<sup>th</sup> Dubrovnik Economic Conference of the Croatian Central Bank, June 2010, discussant  
 Czech Economic Society General Assembly meeting; panel on future of economics, Dec 2009  
 IMF/CNB Conference on the Impact of the 2007 Czech Fiscal Reforms, Nov 2007, discussant  
 Gender Studies, Prague, conference Women in the labor market, Oct 2007, discussant  
 Gender Studies, Prague: Gender Wage Equality and Segregation, Mar 2006, public lecture  
 World Bank conference on Current Issues in Fiscal Reform in Central Europe and Baltic Countries, Prague, Nov 2005, chair of session on higher education  
 Czech National Bank (CNB) Research Open Day Conference, Prague, Sep 2005, discussant  
 Conference: Employment and Unemployment in the EU, London Business School, 2004, panelist  
 Journal of Economic Perspectives sp. issue conference on transition, Prague, Apr 2001, discussant

## REFEREEING

Journals: *American Economic Review, British Journal of Industrial Relations, Comparative Economic Studies, Czech Journal of Economics and Finance, Eastern European Economics, Economic Journal, Economic Systems, Economics of Education Review, Economics of Transition, Emerging Markets Finance and Trade, Empirical Economics, European Journal of Law and Economics, European Journal of Political Economy, European Sociological Review, Industrial and Labor Relations Review, International Journal of Manpower, IZA Journal of European Labor Studies, IZA World of Labor, Journal of Comparative Economics, Journal of Economic Behavior and Organization, Journal of Development Economics, Journal of Econometrics, Journal of the European Economic Association, Journal of Human Resources, Journal of Economic Inequality, Journal of Economic Psychology, Journal of Labor Economics, Journal of Labor Research, Journal of Population Economics, Learning and Individual Differences, Labour, Labour Economics, Prague Economic Papers, Review of Economics and Statistics, Review of Economic Studies, Review of Economics of the Household, Scientometrics, Social Science Quarterly, Structural Change and Economic Dynamics, World Bank Economic Review, World Development*

Conferences: European Association of Labour Economists 2005-2010, 2012, International Economic Association 2005, European Economic Association 2001, Czech Economic Society 2008, 2010

Grant agencies: Grant Agency of the Czech Academy of Sciences, Grant Agency of Charles University, Czech Science Foundation, Slovak Research and Development Agency, Hungarian Scientific Research Fund, Social Sciences and Humanities Research Council of Canada, Shota Rustaveli National Science Foundation of Georgia, Karel Janeček Foundation, ERC Starting Grants.

Prize selection committees: 2012 National Award for Applied Economics, Higher School of Economics, Moscow; 'Company of the Year - Equal Opportunities' Gender Studies, Prague, 2009-2011; Milada Paulová prize for female economist, Czech Ministry of Education, 2010; 'Young Economist of the Year' Czech Economic Society, 2009-2013; 'František Vencovský Award' Institute of Finance and Administration, Prague, 2011, 2013, 2015. Czech Company of the Year in CSR, Business for Society, 2014.

Appointment committees: for the Slovak Government Council for Science, Technology and Innovation

## CONSULTING AND TECHNICAL ASSISTANCE: R&amp;D Financing / Labor Markets and Education

Expert Committee for Humanities and Social Sciences, R&D Council (RDC), member, 2008-10  
Steering committee of the International audit of Czech R&D&I, MSMT, member, 2009-12 /  
Background study on Czech labor market (European Training Foundation, 2000)  
Public expenditures in education (World Bank, 2000)  
Human resources development (HRD) strategy (Office of the Czech Government, 2005)  
Barriers to competitiveness in HRD (Czech Ministry for Regional Development, 2005)  
Czech labor market (EU Employment Observatory, SYSDEM co-correspondent, 2005-2015)  
Barriers to employment for socially excluded (UNDP and People in Need, 2005)  
Tax-benefits systems' interaction with ALMPs (ECORYS, EU DG Employment, 2007)  
Work disincentives of Czech social support system for Roma (World Bank, 2007)  
Methodology and organization of ALMP evaluations (National Training Fund, 2008)  
Economic impact study (Coca-Cola System in the Czech Republic, 1999)  
Regional impact of investment incentives (Deloitte and CzechInvest, 2006)  
Modeling counterfactual customer base (T-Mobile CZ vs. Vodafone CZ, 2006)  
Technical assistance in forecasting unemployment (Phare EU program, 1998)  
Forecasting of training needs (Leonardo da Vinci EU program, 2000; MPSV 2005-7)  
Gender Wage Gap (Gender Studies/EU Equal 2006; Trexima Bratislava, 2006-07)

## SERVICE

Research, Development and Innovation Council (RDC) of the Czech Republic, member 2014-22,  
vice-chair 2022

RDC Committee for the Evaluation of Research Organizations, member 2015-2024, chair 2020-  
22, vice-chair 2023-2024

Czech Government Council for Gender Equality, member, 2022-

Epidemic interdisciplinary advising group (MeSES), Czech Ministry of Health, 2021

National Economic Council of the Czech government (NERV), 2020-2021

Advisory committee on pension reform, Czech Ministry of labor and social affairs, 2022-2023

Scientific Council of the Czech Science Foundation, member, 2019-2026

Academic Senate of the Czech Academy of Sciences, 2002-2013, 2016-2021, 2022-

Scientific Council of Charles University, Prague, 2014-

Scientific Council of Masaryk University, Brno, 2015-2023

Economics DSc. (dr. of science) Committee, chair, Czech Academy of Sciences 2016-2025

Scientific Advisory Board, National Institute of Virology and Bacteriology, member, 2022-25

Scientific Council of NCIP (National center for information support of R&D&I), 2021-25

Committee for Research Evaluation of Workplaces of the Czech Academy of Sciences, 2017-20

Committee for Evaluation of Social Sciences and Humanities, chair, Charles University, 2016-22

Ministry of Education Committee (Grémium) for Research Evaluation of Universities M3-5, 2021

CU Committee for Excellent Monographs in Social Sciences and Humanities, 2010-2020

Chair of the Expert Panel for Social Sciences at the R&D Council of the Czech Republic, 2014

Chair of the Economics Panel, Czech Science Foundation (GACR), 2009-2011, 2011-13

Chair of the Social Sciences and Humanities Committee, GACR, 2009-2011, 2011-13

Economics Panel of the Grant Agency of Charles University Prague, 2009-2010

Executive Committee of the European Association of Labour Economists, 2005-2010

Scientific Advisory Board of the Central European Labour Studies Institute, Bratislava, 2016-

Managing Board of the Czech Economic Society, 2005-2013

Scientific Council of the Faculty of Economics, University of Economics, Prague, 2013-2018

Scientific Council of the Faculty of Social Sciences, Charles University, Prague, 2010-2014

Executive and Supervisory Board of CERGE-EI, 2004-

Board of Trustees of CERGE-EI, 2004-present (Secretary and Treasurer 2009-2013)

Board of the CERGE-EI Nadace (foundation), 2004-2007

Board of Directors of CERGE-EI Foundation, 2019-

Scientific Council of the EI, 1999-2006, Board of the EI 2007-present (Vice-Chair 2009-14)

Chair of the Scientific Council of CERGE, 2012-2014

Chair of the Graduation Council of CERGE, 2012-2014, 2017-2022

Committee for the Information System on Labor Costs, Czech Ministry of Labor, 2000-2023

Committee for the Balanced Gender Representation in Politics and Business at the Czech  
Government Council for Equal Opportunities for Women and Men, deputy chair, 2012-

Chair of the Committee for the Evaluation of Research Institutes of the Czech Ministry of Labor  
and Social Affairs, 2018-2023

**Assoc. Prof. Vilém Neděla, M.Sc. et M.Sc., Ph.D.**

**Web of Science ResearcherID: E-3565-2012**

**SCOPUS Author ID: 14627504200**

**ORCID iD: 0000-0001-6029-5435**

**Born:** [REDACTED]

**Education and scientific qualification:**

- |           |   |
|-----------|---|
| 1997-2001 | Master's study, Brno University of Technology, Faculty of Electrical Engineering and Communication  |
| 2000-2003 | Master's study, Brno University of Technology, Faculty of Business and Management, specialization: Economics and Management in Industry   |
| 2001-2008 | Ph.D. study, Brno University of Technology and Institute of Scientific Instruments of the CAS, specialization: Detection of Signal Electrons in ESEM (supervised by prof. R. Autrata) |
| 2021      | Assoc. prof, Brno University of Technology, habilitation in Environmental scanning electron microscopy.   |

**Work experience:**

- |              |  |
|--------------|--|
| 2001-present | Institute of Scientific Instruments of the CAS   |
| 2006-2011    | Head of the detection systems group at the Institute of Scientific Instruments of the CAS  |
| 2012-present | Head of Environmental electron microscopy group at the Institute of Scientific Instruments of the CAS<br>Head of the group for the cooperation with industry at the Institute of Scientific Instruments of the CAS (AutraDet, Jeol, Hitachi, Thermo Fisher Scientific, Delong Instruments, Crytur, Tecpa, Solartec, BVT Technologies, NUM Solution, etc.). |

**Awards:**

The winner of the competition for the best Ph.D. thesis of the year 2009, a contest organized by Czechoslovak Microscopy Society; science award and financial support for the year 2003 (Endowment fund PRECIOSA, the Czech Republic). The winner of the financial support (sponsored by EMS) for active participation in many previously held congresses; a large number of poster awards (EMC 2009 Graz, EMC 2011 Urbino, etc.). Kenbikyo Award 2016 – for an outstanding article published in the professional journal *Kenbikyo*.

**Patents, prototypes and functional samples:**

Ionisation Detector for Environmental Scanning Microscope – co-inventor, P, RIV/68081731:11:00372211; The ionisation detector of the environmental scanning electron microscope – co-inventor, P, RIV/68081731:08:00322626;  
Advanced hydration system for ESEM – co-inventor, G/A, RIV/68081731:20:00534799; Middle class BSE detector for customer upgrade in SEM/ESEM – co-inventor, G/A, RIV/68081731:19:00507820; New high class scintillation-ionization high-tech detector for SEM/ESEM – co-inventor, G/A, RIV/68081731:19:00507815; New scintillation-ionization photomultiplier unit for high-tech REM/EREM detector of the highest class – co-inventor, G/A, RIV/68081731:18:00496673; BSE detector scintillation photomultiplier unit with refracted light guide geometry for REM – co-inventor, G/A, RIV/68081731:18:00496672; Scintillation photomultiplier unit of BSE detector of middle class for customer upgrade REM / EREM – co-inventor, G/A, RIV/68081731:18:00496665; Functional sample of electrochemical sensor with metal working electrode deposited with DLC layer and by thermo-compression – co-inventor, G/B, RIV/68081731:12:00387556; Functional sample of polished electrochemical sensor with deposited DLC layer – co-inventor, G/B, RIV/68081731:12:00387550; Functional sample of sensor with a deposited thick layer of C – co-inventor, G/B, RIV/68081731:12:00387555; Functional samples of electrochemical sensors with various thickness of deposited B-DLC layer, optimized for detection of heavy metals in solutions – co-inventor, G/B, RIV/68081731:12:00387552; New sputtering equipment for depositing B-DLC layers – co-inventor,

G/A, RIV/68081731:12:00387557; Device for the production of electrodes in the form of micro-discs from metal foils – co-inventor, G/A, RIV/68081731:12:00387407; New light guide for Hitachi microscopes – co-inventor, G/B, RIV/68081731:10:00356100; New retractable console for BSE-YAG/YAP detector – co-inventor, G/B, RIV/68081731:09:00341428; Chamber for a study of highly-aggressive samples in VP-SEM – co-inventor, G/B, RIV/68081731:08:00322619; BSE-YAG detector for a JEOL microscope – co-inventor, G/B, RIV/68081731:07:00341427; Differentially plumping chamber for electron microscope – inventor, G/B, RIV/68081731:07:00341426; Ionisation detector of secondary electrons with electrostatic separator – inventor, S/A, RIV/68081731:07:00094699; Retractable konsole for BSE-YAG detector – co-inventor, S/A, RIV/68081731:07:00094700; Hydration System for Low Vacuum and Environmental Scanning Electron microscopes – inventor, S/A, RIV/68081731:05:00047258; Environmental scanning electron microscope AQUASEM-II – co-inventor, RIV/68081731:04:00047189

### **Research activities:**

The main science and research topic is environmental scanning electron microscopy (ESEM). During his stay at the ISI CAS, Mr. Neděla founded an ESEM laboratory equipped with an experimental ESEM AQASEM II; in 2016, he initiated the founding of a new ESEM laboratory with one of the best equipped high resolution ESEM Quanta 650 FEG. He has studied the physical models describing the processes of creating and multiplying an electron signal to be detected by an ionization detector in the environment of high pressure gases (ESEM). He actively solves the problem of the Monte Carlo simulation of electron and gas interactions. He also pursues further development of the simulation software created in collaboration with Prof. Lencová. He has carried out a summarizing study to describe and comment on the dependence of a signal detected by an ionization detector SE and a scintillation detector BSE with a single crystal YAG:Ce<sup>3+</sup> correlated to the gas pressure and other operational parameters of ESEM. In collaboration with Assoc. Prof. Maxa (BUT), he is actively resolving the problem of gas flow simulations, with a wide range of original outcomes resulting in the optimization of the differentially pumped chamber shape and several detection systems for ESEM. In recent years, his work has been focused on the study of special, hardly observable samples (biological samples, polymers, ice) and dynamically changing ones under the influence of various physical and chemical effects or reactions. In addition to the conversion of a Vega (Tescan) electron microscope to an experimental environmental SEM AQUASEM II, he authored the new HAADF detector for the TEM of the Hitachi company. He is in charge of the development and production of BSE-YAG detectors for the FEI company (6 pieces fabricated), Gedeon Richter Company (1 piece), Hitachi (about 30 pieces), and Jeol (about 20 pieces). He led the team of designers proposing a BSE-YAG detector for the Jeol JIB 4600 microscope and a prototype of the in-lens BSE-YAG detector. He is the author of the patent and prototype of the new ionization detector SE with an electrostatic separator for ESEM and a co-author of a prototype of the edge-free scintillation BSE detector for Hitachi SEM. As a part of grant projects, in recent years he developed new prototypes of scintillation detector with a diffraction geometry of the light guide for SEM and a combined scintillation-ionization detector for ESEM. He is the author of the patent and prototype of the ISEDS with the option of an electron energy filter. ISEDS is one of the most sensitive detectors for ESEM in the world. For the observation of ice and the frozen samples, the co-applicant, in the cooperation with the group of cryogenics in ISI, designed and produced a new cryo-stage for ESEM with the cooling ability down to -196°C. For the environmentally relevant study of ice, he developed a special Peltier stage for temperatures down to -50 °C. Now, he is optimizing the ESEM subzero method for precise observation of frozen samples at thermodynamic equilibrium. These unique instrumentation and method have already proven to be valuable in the collaboration with other experts in the field of ice and atmospheric chemistry (assoc. prof.. Heger, assoc. prof. Loerting and dr. Yang)

### **Research results:**

Publications – impacted: 56 (Scopus) /45 (WoS); others: 20

Conferences – approx. 150 proceedings; 20 lectures; 13 invited lectures; about 130 posters

Citations: 764 (Scopus), H-index 2022: 20 (Scopus)/14 (WoS)

### **Projects completed (S - solver, C - co-solver):**

S - GACR 22-25799S: 01/2022 - 12/2024

S - GACR 19-03909S: 01/2019 - 12/2021  
S - GACR 14-22777S: 01/2014 - 12/2016  
S - GACR GP102/10/1410: 01/2010 - 12/2013  
S - GAAV KJB200650602: 01/2006 - 12/2008  
S - MSMT CZ. 1.07/2.3.00/20.0103: 09/2011 - 09/2014  
S - CAS, Grant for purchasing expensive scientific instruments: 2015  
C - GACR 19-08239S: 01/2019 - 12/2021  
C - MPO CZ.01.1.02/0.0/0.0/17\_176/0015020: 08/2019 - 11/2022  
C - MPO CZ.01.1.02/0.0/15\_019/0004693: 01/2017 - 09/2019  
C - MPO FR-TI1/305: 7/2009 - 6/2013  
C - MPO FR-TI1/118: 5/2009 - 4/2013  
C - MPO FT-TA/050: 11/2004 - 12/2007  
C - TACR TH04030007: 03/2019 - 02/2022  
C - TACR TN01000008: 06/2018 - 12/2022  
C - AVCR AV21: Breakthrough Technologies for the Future – Sensing, Digitisation, Artificial Intelligence and Quantum Technologies, coordinator J. Lazar, ISI CAS, IP CAS  
C - AVCR AV21: City as a Laboratory of Change, coordinator A. Gjuričová, ICH CAS  
C - AVCR AV21: Diagnostic Methods and Techniques, coordinator I. Müllerová, ISI CAS  
C - AVCR AV21: Hope and Risks of the Digital Age, coordinator B. Zitová, UTIA CAS  
C - BAS Collaboration Voucher, Cambridge University: 2015

#### Educational activity:

As of the date of submitting application, I am a supervisor of three Ph.D students (Ing. Jiří Hudec, Mgr. Martin Olbert and Mgr. Kamila Závacká). One of my students has already defended the Ph.D. degree (Ing. Eva Tihlaříková, Ph.D.). I participate in the teaching of doctoral students at Brno University of Technology, where I lecture and lead laboratories in two courses. From 2006 to 2011 I was the Head of the Detection Systems Group at ISI CAS. From 2012 to the present, I am the Head of the Group of Environmental Electron Microscopy at ISI CAS. Currently, my group has a total of 15 members. We are a team of mostly young people. I am also organizer and lecturer of the Autumn School of Electron Microscopy (up to 150 members) at ISI ASCR.

#### Invited lectures, chairmanship, and media presentation:

- 2006 Media presentation within a series of science programs (the "Czech Head")
- 2007 Invited lecturer at the conference *New Methods, Instrumentation and Ideas for Microscopy and Microanalysis in Forensic Science*
- 2007 Invited lecturer at the *IX. Central European Symposium Brno, an implantology symposium*
- 2008 Invited lecturer at the conference *New Methods, Instrumentation and Ideas for Microscopy and Microanalysis in Forensic Science*
- 2010 Lecturer at *CPO-8 International Conference*, Singapore.
- 2012 Invited lecturer at *Asia-Pacific Microscopy Conference*, Australia
- 2012 Lecturer at the workshop of BVT Technologies, a.s.
- 2012 Invited lecturer on application possibilities of Environmental scanning electron microscopy within science, research, and industrial applications. Biotechnology Companies Congress, Senate of the Parliament of the Czech Republic, Prague
- 2013 Invited lecture at the Hitachi Ltd., Japan
- 2013 Invited lecture at the JEOL Ltd., Japan
- 2013 Invited lecture at the Institute for Chemical Research, Advanced Research Center for Beam Science, Laboratory of Electron Microscopy and Crystal Chemistry, Kyoto University, Japan
- 2013 Two invited lectures at the *Annual Meeting of Japanese Microscopy Society in Osaka*, Japan
- 2013 Invited lecture at the Graduate School of Science and Engineering for Research Nano and Functional Material Sciences Nano Materials and System Design, University of Toyama, Japan
- 2013 Invited lecture at the Research Centre for Ultra-High Voltage Electron Microscopy, Osaka University, Japan
- 2015 Invited lecturer at *Microscopy and Microanalysis Congress*, Portland, Oregon, USA
- 2015 Several interviews for Czech Television, radio, and magazines – (New laboratory of ESEM at

- the ISI CAS; Head of the organizing committee and lecturer at *Autumn School of Electron microscopy*)
- 2016 Chair of scientific section and invited lecturer, *11<sup>th</sup> Asia-Pacific Microscopy Conference*, section I-5 (In situ dynamics in TEM and SEM, Environmental microscopy), May 23-27, Phuket, Thailand
- 2016 Invited lecturer at the Department of Experimental Plant Biology, Faculty of Science, Charles University in Prague. March 15, Prague, Czech Republic
- 2017 Interview for Czech radios – (Head of the organizing committee and lecturer at *Autumn School of Electron microscopy*)
- 2018 Several interviews for Czech Television, radios – (*A unique detector of electrons facilitated the discovery of new animal species; A world-unique detector of electrons; Frost flower research will facilitate the development of new drugs; Frost flowers are not responsible for ozone holes. Brno scientists have rid them of bad rumours*)
- 2019 Invited lecturer at *Multi-source data analysis Workshop*, November 25-26, Prague, Czech Republic
- 2020 Several interviews for Czech radios – (*A unique electron microscope from Brno can visualize capsules containing live cells important for studying new antiviriotics!*)

**Organization of workshop:**

Workshop of Interesting Topics of SEM and ESEM, August 26-31, 2014

Autumn School of Electron Microscopy 2022, 2019, 2017, 2015, 2013, 2011, 2009

# Gabriela Pavlinkova

## Campus Address:

Laboratory of Molecular Pathogenetics  
Institute of Biotechnology, Academy of Sciences  
BIOCEV  
Průmyslová 595  
252 50 Vestec  
Czechia  
Phone: [REDACTED]  
E-mail: [REDACTED]

## Education

- Ph.D. in Immunology (2000), Charles University, Prague, Czech Republic.
- RNDr. (Doctor of Natural Sciences) (1989), Immunology and Developmental Biology, Charles University, Prague, Czechoslovakia.
- Master of Science in Immunology and Molecular Biology (1989) Charles University, Prague, Czechoslovakia.

## Current Position

since 2008 Head of Laboratory of Molecular Pathogenetics, Institute of Biotechnology Czech Academy of Sciences, Prague, Czechia

## Prior Employment

- |           |   |
|-----------|---|
| 2007-2008 | Assistant Professor; Pediatrics Department, University of Nebraska Medical Center, Omaha, NE, USA   |
| 2005-2007 | Assistant Professor; Department of Genetics, Cell Biology & Anatomy, University of Nebraska Medical Center, Omaha, NE, USA                                      |
| 2003-2004 | Maternity Leave (April 2003 – December 2004)  |
| 2002-2003 | Instructor; Department of Radiation Oncology, University of Nebraska Medical Center, Omaha, NE, USA   |
| 2001-2002 | Visiting Professor; Dept. of Immunology, Institute for Genetic Medicine, Hokkaido University, Sapporo, Japan  |
| 1998-2002 | Instructor; Dept. of Pathology and Microbiology, University of Nebraska Medical Center, Omaha, NE, USA  |
| 1996-1998 | Research Associate, Pathology and Microbiology, University of Nebraska Medical Center, Omaha, NE, USA   |
| 1994-1995 | Senior Research Analyst, Microbiology and Immunology, University of Kentucky, Lexington, KY; Scientist, <i>Immpheron, Inc.</i> , Lexington, KY (1995-1996), USA |
| 1991-1993 | Visiting Scholar, Microbiology and Immunology, University of Kentucky Lexington, KY, USA  |

1989-1990      Research Assistant, Dept. of Pathology, Charles University Medical School, Prague, Czechoslovakia

## Patents

**U.S. Patent number:** 5800991

Filing date: Jul 23, 1996

Issue date: Sep 1, 1998

Inventors: Boyd E. Haley, Heinz Kohler, Krishnan Rajagopalan, Gabriela Pavlinkova

Assignee: University of Kentucky Research Foundation

## Consulting Positions

1997-2001, Consultant, Immpheron, Inc., Lexington, KY

## Honors and Awards

- 2023- Associate Editor of the Editorial Board of *Molecular Signalling and Pathways, Frontiers in Molecular Neuroscience*
- 2019- Member of the Subject-area Doctoral Board of Molecular and Cellular Biology, Genetics, and Virology (“Oborová rada DPS MBBGV”) Faculty of Science Charles University
- 2018- Member of the Editorial Board of *Nature Scientific Reports*
- 2018- Member of the Council of the Institute of Biotechnology CAS
- 2009- Expert Evaluator of calls FP7-PEOPLE, FP7-Health, H20/20, Horizon Europe
- 2009-2019 Member of the Administrative Council of BIOCEV z.s.p.o
- 2009-2020 Member of the Council of BIOCEV
- 2015-2019 Scientific Evaluator for the Czech Science Foundation
- 2017-2021 Czech Academy of Sciences International Affairs Council

## Professional achievements:

**59 publications, co-author of 3 book chapters, times cited: 2045 (total)/1882 (without self-citations), h-index 27**

**Funding: Czech Grant Agency (GAČR), AZV, Horizon Europe, FP7, NIH, U.S. Army, American Cancer Society**

## Main fields of research

Molecular genetics of congenital malformations, neurosensory disorders, hearing impairment, pathophysiological mechanisms of responses to diabetes mellitus, transcriptional and epigenetic regulation, hypoxia.

## Research Grant Awards:

### Current Research Grants:

2023-2025      GA23-05963S: “Transcriptional and epigenetic regulation of auditory neuron development”.  
The grant of the Czech Science Foundation, **PI: G. Pavlinkova**

2022-2025      MSCA-COFUND – MERIT 101081195, Horizon Europe. **Co-investigator: G. Pavlinkova**

2022-2024      GA22-11516S: “Transcriptional and epigenetic control of pancreas development and function”  
The grant of the Czech Science Foundation, **PI: G. Pavlinkova**

2021-2023      GA 21-03847S: “Role of HIF-1 $\alpha$  in the development of the cardiac sympathetic nervous system”  
The grant of the Czech Science Foundation, **PI: G. Pavlinkova**

2020-2023 AZV ČR NU20J-02-00035: “Ischemic tolerance of hearts adapted to chronic hypoxia: the role of hypoxia-induced factor 1alpha and mitochondria” The grant of the Czech Health Research Council, **Co-PI: G. Pavlinkova**

Previous Awards:

2020-2022	GA20-06927S: “The role of NEUROD1 and ISL1 in neuronal development of the inner ear” The grant of the Czech Science Foundation, <b>PI: G. Pavlinkova</b>
2019-2021	GA19-07378S: “Interplay between Islet1 and Neurod1 in pancreatic development and disease” The grant of the Czech Science Foundation, <b>PI: G. Pavlinkova</b>
2017-2019	GA17-04719S: “Transcriptional regulation in neurosensory development and function in the inner ear”. The grant of the Czech Science Foundation, <b>PI: G. Pavlinkova</b>
2016-2018	GA16-06825S: “Programming of the developing heart by maternal diabetes”. The grant of the Czech Science Foundation, <b>PI: G. Pavlinkova</b>
2015-2018	AZV ČR 15-30880A: “Proteomic and genetic assessment of sperm quality for the enhancement of assisted reproduction in infertile patients with diabetes mellitus”. The grant of the Czech Health Research Council, <b>Co-investigator: G. Pavlinkova</b>
2013-2016	GA13-07996S: “Molecular mechanisms responsible for generating cellular diversity in the inner ear”. The grant of the Czech Science Foundation, <b>PI: G. Pavlinkova</b>
2012-2015	Project #CZ.1.07/2.3.00/30.0020, Biotechnologický expert (Biotechnological expert), program OP VK 2011, Ministry of Education, Youth and Sports.
2008-2012	<b>FP7 Project # 224760:</b> “Molecular Mechanisms in Diabetic Embryopathy” Marie Curie Actions Seventh Research Framework Programme People 2008, <b>PI: G. Pavlinkova</b>
2009-2014	GA301/09/0117: “Molecular Mechanisms in Diabetic Embryopathy”, The grant of the Czech Science Foundation, <b>PI: G. Pavlinkova</b>
2003-2008	P20 RR18788 “The Molecular Biology of Neurosensory Systems” NIH-NCRR Principal Investigator: S.D. Smith; <b>G. Pavlinkova</b> as an independent investigator This was a Center grant to study neurosensory development providing support to junior investigators (not yet R01 recipients) using core facilities for gene expression (microarray, mouse genome engineering, and histology/histochemistry).
2005-2007	“Molecular Mechanisms in Diabetic Embryopathy” NIH#3R01HD037804-06S1 for <b>PI G. Pavlinkova</b>

## PROFESSIONAL PUBLICATIONS

### Articles in peer review journals:

1. NEUROD1 reinforces endocrine cell fate acquisition in pancreatic development. Bohuslavova R, Fabriciova V, Smolik O, Laura Lebron-Mora, Abaffy P, Benesova S, Zucha D, Valihrach L, Berkova Z, Saudek F, Pavlinkova G\*. *Nature Communications* 2023, 14 (1), 5554; <https://doi.org/10.1038/s41467-023-41306-6> IF 16.6
2. The development of speaking and singing in infants may play a role in genomics and dementia in humans. Yamoah EN, Pavlinkova G, and Fritzsch B. *Brain Sciences* 2023, 13(8), 1190; <https://doi.org/10.3390/brainsci13081190>. IF 3.3
3. Dysregulation of hypoxia-inducible factor 1α in the sympathetic nervous system accelerates diabetic cardiomyopathy. Hrabalova P, Bohuslavova R, Matejkova K, Papousek F, Sedmera D, Abaffy P, Kolar F, and Pavlinkova G\*. *Cardiovascular Diabetology* 2023, 22, 88. <https://doi.org/10.1186/s12933-023-01824-5>. IF 9.3
4. ISL1 controls pancreatic alpha cell fate and beta cell maturation. Bohuslavova R, Fabriciova V, Laura Lebron-Mora, Malfati J, Smolik O, Valihrach L, Benesova S, Zucha D, Berkova Z, Saudek F, Evans S, Pavlinkova G\*. *Cell & Bioscience* 2023, 13, 53. <https://doi.org/10.1186/s13578-023-01003-9>. IF 9.597
5. ISL1 is necessary for auditory neuron development and contributes towards tonotopic organization. Filova I, Pysanenko K, Tavakoli M, Vochyanova S, Dvorakova M, Bohuslavova R, Smolik O, Fabriciova

- V, Hrabalova P, Benesova S, Valihrach L, Cerny J, Yamoah EN, Syka J, Fritzsch B, and Pavlinkova G\*. *PNAS* 2022, Sept 8, 119 (37) e2207433119, <https://doi.org/10.1073/pnas.2207433119>. IF 12.779
6. Single-cell RNA-sequencing analysis of the developing mouse inner ear identifies molecular logic of auditory neuron diversification. Petitpré Ch, Faure L, Uhl Ph, Fontanet P, Filova I, Pavlinkova G, Adameyko I, Hadjab S, Lallemend F. *Nature Communications* 2022, 13, 3878. <https://doi.org/10.1038/s41467-022-31580-1>. IF 17.694
7. Early Deletion of Neurod1 Alters Neuronal Lineage Potential and Diminishes Neurogenesis in the Inner Ear. Filova I, Bohuslavova R, Tavakoli M, Yamoah EN, Fritzsch B, Pavlinkova G\*. *Frontiers in Cell and Developmental Biology* 2022, 17 February <https://doi.org/10.3389/fcell.2022.845461>. IF 6.081
8. The Transgenerational Transmission of the Paternal Type 2 Diabetes-Induced Subfertility Phenotype. Zatecka E<sup>1</sup>, Bohuslavova R<sup>1</sup>, Valaskova E, Margaryan H, Elzeinova F, Kubatova A, Hylmarova S, Peknicova J, Pavlinkova G\*. *Frontiers in Endocrinology* 2021 Nov 5;12:763863. doi: 10.3389/fendo.2021.763863. IF 6.055
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11. Overexpression of Isl1 under the Pax2 Promoter, Leads to Impaired Sound Processing and Increased Inhibition in the Inferior Colliculus. Chumak T, Tothova D, Filova I, Bures Z, Popelar J, Pavlinkova G\*, Syka J\*. *International Journal of Molecular Sciences* 2021 Apr 26;22(9):4507. doi: 10.3390/ijms22094507. IF 6.628
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58. Rajagopalan, K\*; Pavlinkova, G\*; Levy, S; Pokkuluri, PR; Schiffer, M; Haley, B; Kohler, H. Novel unconventional binding site in the variable region of immunoglobulins. *Proc. Natl. Acad. Sci. USA* 93:6019-6024, 1996. (\* both these authors have equal contribution)

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**Book Chapters:**

60. Kappen C, Pavlinkova G, Kruger C, Salbaum JM: Analysis of altered gene expression in diabetic embryopathy. in: Comprehensive Toxicology, 2nd edition, C.A. McQueen (Ed.). Oxford, United Kingdom, Elsevier, 2010
61. Kohler, H; Pavlinkova, G; Haley, B. Ig Nucleotide Binding Site: A Possible Superantigen Receptor. Human B-cell superantigens; Moncef Zouali (Ed.), R.G. Landef Company, 189-194, 1996.
62. Batra, SK; Goel, A; Pavlinkova, G; and Colcher, D. Monoclonal antibody targeted radioisotope therapy. In: "Targeted therapy of cancer" edited by Syrigos KN, and Harrington, KJ, Oxford University Press (London, UK) 2000.

**Invited presentations and co-organized conferences:**

1. Organizer of minisymposium "Embryonal Pathology" 57th Annual scientific meeting European Society for Clinical Research June 7-9, 2023, Prague, Czechia
2. Organizing committee member for 57th Annual scientific meeting European Society for Clinical Research June 7-9, 2023, Prague, Czechia
3. Organizer of minisymposium "Molecular evolution of sensory systems" 10<sup>th</sup> European Conference on Comparative Neurobiology June 22-24, 2022, Prague, Czechia.
4. "Requirements for SOX2 in early neurosensory development" invited presentation and co-organizer conference 2nd International Conference on Neurology & Neuro Disorders October 17-19, 2022, Zurich.
5. Invited presentation "Transkripční a epigenetická regulace ve vývoji a funkci pankreatu: Role transkripčního faktoru ISL1", Seminář katedry Buněčné biologie, Přírodovědecká fakulta, Univerzita Karlova v Praze, Praha, April 20, 2021.
6. Invited presentation "Diferenciace endokrinní tkáně v pankreatu v průběhu embryonálního vývoje a role transkripčního faktoru ISLET1", Seminář Centra diabetologie, Institut Klinické a Experimentální Medicíny Praha, March 22, 2021.
7. "Combinatorial effects of diabetes and Hifla mutation on cardiovascular development and function" in 2nd International Munich ROS Meeting July 6-8, 2018 German Heart Center Munich, Germany.
8. "Maternal and Paternal influences in the Transmission of Diabetes-Induced Changes" 23. International Symposium of Immunology and Biology of Reproduction, Třešť 2017, Czechia.
9. Invited presentation "Transkripční regulace ve vývoji a funkci vnitřního ucha" seminář Neurovědy Institute of Experimental Medicine CAS, Praha, October 2016.
10. Invited presentation "Molekulární mechanismy v diabetické embryopatii" seminář České imunologické společnosti, Praha, October 9, 2014.
11. Invited presentation "Využití transgenních myších modelů ke studiu vývoje vnitřního ucha" seminář Neurovědy, Institute of Experimental Medicine CAS, Praha, May 2014.
12. Pavlinkova, G.: "Genetic and Epigenetic Effects of Diabetes in Pregnancy". Public Affair Committee symposium at 53rd Annual Meeting of the Teratology Society, June 22-26, 2013, Tuscon, Arizona, USA.
13. Invited presentation "Myší modely ve výzkumu patologických změn během embryonálního vývoje" Katedra genetiky a mikrobiologie, Přírodovědecká fakulta, Univerzita Karlova v Praze, October 22, 2012.
14. Pavlinkova, G. Maternal Diabetes Affects Transcriptional Programs in the Developing Embryo. Invited presentation at Advanced Genetic Perspectives in Neural Tube Defects, September 27-28, 2008, Genoa, Italy.
15. Pavlinkova, G.: "Gene Expression Changes in Diabetic Embryopathy". Fifth International Neural Tube Defects Conference, September 24-27, 2007, Asilomar, CA, USA.

## Seznam obhájených a běžících kvalifikačních studentských prací

### **Disertační práce obhájené:**

- 1) Molekulární mechanismy v transkripční regulaci neurosenzorického vývoje. 135117 2013-2019 **disertační práce**, Přírodovědecká fakulta UK Katedra genetiky a mikrobiologie (1400), Mgr. Iva Mácová/Filová obhájená 07.02.2020 (školitel)
- 2) Vliv maternálního diabetu na embryonální vývoj srdce a fetální programování 117155 2011-2019, **disertační práce**, Přírodovědecká fakulta UK Katedra genetiky a mikrobiologie (1400), Mgr. Radka Čerychová obhájená 15.5.2019 (školitel)
- 3) Molekulární mechanismy patologických změn spojené s *diabetes mellitus*. **disertační práce**, VŠCHT, Katedra biochemie a mikrobiologie Ing. Romana Bohuslavová Ph.D., obhájená březen 2016. (odborný konzultant)
- 4) Functional role of Sox2 in neurosensory development. 150223 2014/2015 **disertační práce** Přírodovědecká fakulta UK Katedra genetiky a mikrobiologie (1400) Mgr. Dvořáková Martina obhájená 02.09.2020 (školitel)

### **Disertační práce běžící:**

- 1) Vývoj a ztráta funkce endokrinní tkáně pankreatu. 183357 2016/2017 **disertační práce** Přírodovědecká fakulta UK Katedra buněčné biologie (1510) 4XVYVBP Mgr. Smolík Ondřej řešená od 12.10.2016 (školitel)
- 2) ISL1 transcriptional networks in the development of auditory pathway 223933 2019/2020 **disertační práce** Přírodovědecká fakulta UK Katedra genetiky a mikrobiologie (1400) D-AMBBGV Mgr. Tavakoli Mitra řešená od 05.10.2020 (školitel)
- 3) Úloha HIF transkripčních faktorů ve vývoji a funkci srdce 223934 2019/2020 **disertační práce** Přírodovědecká fakulta UK Katedra genetiky a mikrobiologie (1400) D-MBBGV řešená od 05.10.2020 (školitel)
- 4) Epigenetická a transkripční regulace ve vývoji neuronů sluchové dráhy 235002 2021/2022 **disertační práce** Přírodovědecká fakulta UK Katedra genetiky a mikrobiologie (1400) D-AMBBGV Mgr. Lebrón Mora Laura řešená od 07.03.2022 (školitel)
- 5) Molecular regulations in pancreas development and function 235003 2021/2022 **disertační práce** Přírodovědecká fakulta UK Katedra genetiky a mikrobiologie (1400) D-MBBGV Mgr. Fabríciová Valéria řešená od 15.03.2022 (školitel)

### **Diplomové práce obhájené:**

- 1) Funkční role ISLET1 během neurosenzorického vývoje vnitřního ucha. 129906 2012/2013 **diplomová práce** Přírodovědecká fakulta UK Katedra biochemie (2500) NKATA Mgr. Hampejsová Zuzana, obhájená 02.06.2014
- 2) Molekulární mechanismy v diabetické embryopatii 117159 2011/2012 **diplomová práce** Přírodovědecká fakulta UK Katedra genetiky a mikrobiologie (1400) NGEMOVI Mgr. Čerychová Radka obhájená 10.06.2013
- 3) Funkční role HIF-1 signální dráhy v diabetické nefropatii 129669 **diplomová práce**, Přírodovědecká fakulta UK, Katedra biochemie, Mgr. Nepomucká Kateřina, obhájená 8.9. 2014
- 4) Vývoj a funkce endokrinních buněk pankreatu. 194716 **diplomová práce** Přírodovědecká fakulta UK Katedra genetiky a mikrobiologie (1400) Bc. Adéla Hamplová, obhájená 06.06.2019
- 5) Transcriptional regulation of inner ear development. 206479 2018/2019 **diplomová práce** Přírodovědecká fakulta UK Katedra buněčné biologie (1510) NBUNVYB, Bc. Vochyánová Simona obhájená 14.07.2020
- 6) Funkční role Islet1 ve vývoji pankreatu. 218165 2019/2020 **diplomová práce** Přírodovědecká fakulta UK Katedra buněčné biologie (1510) N-REPRBI, Bc. Malfatti Jessica obhájená 14.09.2021
- 7) Vliv NEUROD1 transkripční regulace na vývoj a funkci neuronů vnitřního ucha. 230652 2020/2021 **diplomová práce** Přírodovědecká fakulta UK Katedra buněčné biologie (1510) N-REPRBI Bc. Merc Veronika obhájená 03.06.2022
- 8) Úloha Hif1a v kardiovaskulární fyziologii a srdečních onemocněních 241827 2021/2022 **diplomová práce** Přírodovědecká fakulta UK Katedra genetiky a mikrobiologie (1400) N-GEMOEU, Bc. Matějková Kateřina obhájená 30.05.2023

### **Bakalářské práce obhájené:**

- 1) Změny genové exprese v diabetické nefropatii, 117154 2011/2012 **bakalářská práce**, Přírodovědecká fakulta UK Katedra biochemie (2500) BBIO, Nepomucká Kateřina obhájená 12.06.2012
- 2) Změny v embryonálním programování vlivem diabetes mellitus 155766 2014/2015 **bakalářská práce** Přírodovědecká fakulta UK Katedra genetiky a mikrobiologie (1400) BMOBIBO Landsmann Lukáš obhájená 04.06.2015

- 3) Deletion of Neurod1 impairs the formation of pancreatic islets of Langerhans in a transgenic mouse model 2016-2017, **Bachelor thesis**, Brandenburg University of Technology, Cottbus – Senftenberg, Bc. Michelle Stelzner defended February 27th 2017 at the Brandenburg University of Technology in Senftenberg, Germany.
- 4) Vývoj a funkce beta-buněk 185196, 2016/2017, **bakalářská práce**, Přírodovědecká fakulta UK, Katedra buněčné biologie (1510), BMOBIBO, Hamplová Adéla obhájená 02.06.2017
- 5) Transkripční regulace ve vývoji neurosenzorických buněk vnitřního ucha 194688 2017/2018, **bakalářská práce** Přírodovědecká fakulta UK, Katedra genetiky a mikrobiologie (1400), BMOBIBO, Vochyánová Simona obhájená, 06.06.2018
- 6) Specifikace a diferenciace buněk v průběhu vývoje pankreatu. 208767, 2018/2019 **bakalářská práce**, Přírodovědecká fakulta UK, Katedra genetiky a mikrobiologie (1400) BMOBIBO, Malfatti Jessica, obhájená, odevzdaná, finalizovaná 31.05.2019
- 7) The development and maintenance of neurons in the inner ear. 218192 2019/2020 **bakalářská práce**, Přírodovědecká fakulta UK Katedra genetiky a mikrobiologie (1400) BBI Wirthová Natália obhájená 09.07.2020
- 8) Transkripční regulace ve vývoji sympatického srdečního systému 227714 2020/2021 **bakalářská práce** Přírodovědecká fakulta UK Katedra genetiky a mikrobiologie (1400) BMOBIBO Matějková Kateřina obhájená 31.05.2021

#### **Seznam projektů GAUK mých studentů v roli vedoucího:**

260523 B-BIO 2023 PřF Lebron Mora, Laura Transkripční a epigenetická role NEUROD1 ve vývoji neuronů vnitřního ucha

160122 B-BIO 2022 PřF Hrabalová, Petra  
Úloha HIF-1 $\alpha$  v embryonálním vývoji sympatického nervového systému srdce v kombinaci s maternálním diabetem

162522 EN-flag B-BIO 2022 PřF Tavakoli, Mitra  
Epigenetická role ISL1 ve vývoji sluchové dráhy

176120 EN-flag C-C4 2020 PřF Smolík, Ondřej  
Role transkripčního faktoru Islet-1 v diferenciaci endokrinních prekurzorů pankreatu

228416 B-BIO 2016 PřF Čerychová, Radka  
Role HIF-1 signifikace v diabetické embryopatii

780216 B-BIO 2016 PřF Dvořáková, Martina  
Funkční role Sox2 v neurosenzorickém vývoji vnitřního ucha

324615 C-C4 2015 PřF Filová, Iva  
Transkripční regulace během vývoje vnitřního ucha

# Petr Plecháč



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**specialization**  
corpus verse studies,  
stylometry

**personal website**  
<https://versologie.cz/plechac>

**github**  
<https://github.com/versotym>

**researchgate**  
[https://www.researchgate.net/  
profile/Petr\\_Plechac3](https://www.researchgate.net/profile/Petr_Plechac3)

## employment

since 2020	<b>NLP programmer</b> Universität Basel
since 2018	<b>Head of the Versification Research Group</b> Institute of Czech Literature, Czech Academy of Sciences
since 2017	<b>Scholar</b> Institute of Czech Literature, Czech Academy of Sciences
2015–2020	<b>Scientific secretary</b> Institute of Czech Literature, Czech Academy of Sciences
2015–2017	<b>Associate scholar</b> Institute of Czech Literature, Czech Academy of Sciences
2012–2015	<b>Postdoctoral fellow</b> Institute of Czech Literature, Czech Academy of Sciences
2011–2012	<b>Graduate student</b> Institute of Czech Literature, Czech Academy of Sciences

## education

2015–2019	<b>Ph.D.</b> Mathematical linguistics, Charles University, Prague, Czech Republic
2009–2012	<b>Ph.D.</b> Theory of literature, Palacký University, Olomouc, Czech Republic
2007–2009	<b>master</b> Czech Philology, Palacký University, Olomouc, Czech Republic
2004–2007	<b>bachelor</b> Czech Philology, Palacký University, Olomouc, Czech Republic

## awards

2016	<b>Otto Wichterle Award</b> Czech Academy of Sciences
2015	<b>The Visegrad Group Academies Young Researcher Award in Languages and Literature</b> Polish Academy of Sciences – Czech Academy of Sciences – Hungarian Academy of Sciences – Slovak Academy of Sciences
2014	<b>SCIAP – Popularization of Science Award</b> Czech Academy of Sciences

## membership

since 2021	<b>External Advisory Board member</b> Starting Infrastructure Community for Computational Literary Studies (Horizon 2020: H2020-INFRAIA-2020-101004984)
since 2021	<b>Editorial Board member</b> Glottometrics journal
since 2020	<b>External Quality Committee member</b> DigiPhiLit – Digital Humanities and Philippine Literature in Spanish (Erasmus+ 2020-1-BE02-KA203-074821)
since 2018	<b>Steering Committee member</b> Plotting Poetry (part of SIG-DLS of Alliance of Digital Humanities Organizations)
since 2014	<b>Member</b> Association for Slavic, East European, & Eurasian Studies
since 2013	<b>Revision Committee member</b> Prague Linguistic Circle

## conference committees

2022	<b>Program Committee member</b> Digital Humanities (ADHO), Tokyo, Japan
2022	<b>Program Committee member</b> Plotting Poetry V, Tartu, Estonia
2021	<b>Program Committee member</b> LaTeCH-CLfL 2021, Punta Cana, Dominican Republic
2020	<b>Steering Committee member</b> Plotting Poetry IV, Prague, Czechia
2019	<b>Steering Committee member</b> Quantitative Approaches to Versification, Prague, Czechia

## grant projects

2020–2024	<b>Research team member</b> Le Rire des Vers (Swiss National Science Foundation: 185674)
2020–2023	<b>Research team member</b> Computerized metrical and stylometrical study of old Hungarian poetry (NKFIH Hungary: 135631)
2020–2022	<b>Research team member</b> Semantics and Intonation of Early 20th Century Czech Verse (Czech Science Foundation: 20-15650S)
2017–2019	<b>Principal investigator</b> Stylometric Analysis of Poetic Texts (Czech Science Foundation: 17-01723S)
2016–2022	<b>Research community member</b> POSTDATA - Poetry Standardization and Linked Open Data (Horizon 2020: ERC-2015-STG-679528 )
2011–2015	<b>Research team member</b> History and Theory of the 19th Century Czech Verse (Czech Science Foundation: P406/11/1825)