

EUROPEAN CURRICULUM VITAE FORMAT



PERSONAL INFORMATION

Surname(s) / First name(s)	Žmuk Berislav
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E-mail(s), Web address(s)	bzmuk@efzg.hr , www.efzg.unizg.hr/bzmuk
Nationality(-ies)	Croat
Date of birth	10.07.1985.
Identification number from Records of Scientific Workers	308704

WORK EXPERIENCE

• Dates (from – to)	15.06.2022. – today
Name and address of employer	Faculty of Economics & Business, University of Zagreb
Type of business or sector	Associate Professor at the Department of Statistics
Occupation or position held	Associate Professor in Research and Teaching
Main activities and responsibilities	Teaching Statistics, Business Statistics, Business Forecasting and Introduction to Economic Statistics Research on applications of statistics in business and economy
• Dates (from – to)	03.05.2017. – 14.06.2022.
Name and address of employer	Faculty of Economics & Business, University of Zagreb
Type of business or sector	Assistant Professor at the Department of Statistics
Occupation or position held	Assistant Professor in Research and Teaching
Main activities and responsibilities	Teaching Statistics, Business Statistics, Business Forecasting and Introduction to Economic Statistics Research on applications of statistics in business and economy
• Dates (from – to)	26.11.2013. – 02.05.2017.
Name and address of employer	Faculty of Economics & Business, University of Zagreb
Type of business or sector	Senior Assistant at the Department of Statistics
Occupation or position held	Senior Assistant in Research and Teaching
Main activities and responsibilities	Teaching Statistics, Business Statistics and Business Forecasting Research on applications of statistics in business and economy
• Dates (from – to)	1.9.2008. – 25.11.2013.
Name and address of employer	Faculty of Economics & Business, University of Zagreb
Type of business or sector	Assistant at the Department of Statistics
Occupation or position held	Assistant in Research and Teaching
Main activities and responsibilities	Teaching Statistics, Business Statistics and Business Forecasting Research on applications of statistics in business and economy
• Dates (from – to)	3.12.2007. – 31.8.2008.
Name and address of employer	Prehrambena industrija Vindija d.d., Međimurska 6, 42000 Varaždin
Type of business or sector	Economics department
Occupation or position held	Analyst planner
Main activities and responsibilities	Conducting economic analysis and planning for business purposes

• Dates (from – to)	2004. – 2007.
Name and address of employer	Faculty of Economics & Business, University of Zagreb
Main activities and responsibilities	Student assistant at the Department of Statistics

• Dates (from – to)	2005. – 2007.
Name and address of employer	Faculty of Economics & Business, University of Zagreb
Main activities and responsibilities	Student assistant at the Department of Economic Theory

EDUCATION

Date	February 2010 – November 2013
Place of education	Zagreb, Croatia
Name and type of organisation providing education	Faculty of Economics & Business, University of Zagreb, postgraduate doctoral study, major: Business Economics
Title or qualification awarded	PhD Degree in Economics

Date	November 2008 – February 2010
Place of education	Zagreb, Croatia
Name and type of organisation providing education	Faculty of Economics & Business, University of Zagreb, postgraduate study Statistical methods for economic analyses and forecasting
Title or qualification awarded	Master Degree in Economics

Date	October 2003 – October 2007
Place of education	Zagreb, Croatia
Name and type of organisation providing education	Faculty of Economics & Business, University of Zagreb, undergraduate study, major: Accounting
Title or qualification awarded	Bachelor degree in Business Economics

TRAINING

Date	August 7 – August 18, 2022
Place of education	Colchester, United Kingdom
Name and type of organisation providing education	University of Essex
Principal subjects/Occupational skills covered	Course: Advanced Methods for Text as Data: Natural Language Processing (instructor: Douglas Rice)

Date	July 24 – August 4, 2023
Place of education	Colchester, United Kingdom
Name and type of organisation providing education	University of Essex
Principal subjects/Occupational skills covered	Course: Quantitative Text Analysis (instructor: Iulia Cioroianu)

Date	July 10 – July 21, 2023
Place of education	Colchester, United Kingdom
Name and type of organisation providing education	University of Essex
Principal subjects/Occupational skills covered	Course: Methods for Fieldwork in Social Science (instructors: Alexandra Hartman, Florian G. Kern)

Date	August 8 – August 19, 2022
Place of education	Colchester, United Kingdom
Name and type of organisation providing education	University of Essex
Principal subjects/Occupational skills covered	Course: Computational Methods for Social Data Science: Exploring Society through Visualization and Modelling (instructor: Roger Beecham)

Date	July 25 – August 5, 2022
Place of education	Colchester, United Kingdom
Name and type of organisation providing education	University of Essex
Principal subjects/Occupational skills covered	Course: Multilevel Models: Practical Applications (instructor: Andrew Bell)

Date	July 11 – July 22, 2022
Place of education	Colchester, United Kingdom
Name and type of organisation providing education	University of Essex
Principal subjects/Occupational skills covered	Course: Introduction to Quantitative Text Analysis (instructor: Martijn Schoonvelde)

Date	January, 2022
Place of education	Split, Croatia
Name and type of organisation providing education	University of Split, Faculty of Humanities and Social Sciences in Split
Principal subjects/Occupational skills covered	Education: Improving teacher competencies for higher education teachers (Head of the Center for Research and Development of Lifelong Learning at the Faculty of Philosophy in Split: Morana Koludrović)

Date	September, 2021
Place of education	Helsinki, Finland
Name and type of organisation providing education	Baltic-Nordic-Ukrainian (BNU) Network on Survey Statistics
Principal subjects/Occupational skills covered	Summer School on Survey Statistics 2021

Date	September – November, 2019
Place of education	Zagreb, Croatia
Name and type of organisation providing education	University of Zagreb, Faculty of Humanities and Social Sciences
Principal subjects/Occupational skills covered	Education Program: Strengthening the Basic Teaching Competences of Higher Education Teachers (Head of Education: Željka Kamenov)

Date	August 5 – August 16, 2019
Place of education	Colchester, United Kingdom
Name and type of organisation providing education	University of Essex
Principal subjects/Occupational skills covered	Course: Advanced Quantitative Data Analysis (instructor: Moritz Marbach)

Date	July 22 – August 2, 2019
Place of education	Colchester, United Kingdom
Name and type of organisation providing education	University of Essex
Principal subjects/Occupational skills covered	Course: Quantitative Data Analysis with R (instructor: Martin Elff)

Date	July 8 – July 19, 2019
Place of education	Colchester, United Kingdom
Name and type of organisation providing education	University of Essex
Principal subjects/Occupational skills covered	Course: Beyond OLS: Categorical, Choice and Count Models (instructor: Tobias Böhmelt)

Date	August 20 – August 24, 2018
Place of education	Cologne, Germany
Name and type of organisation providing education	Gesis, Leibniz Institute for Social Research
Principal subjects/Occupational skills covered	Course: Sampling, Weighting, and Estimation (instructor: Stephanie Eckman)
Date	August 13 – August 17, 2018
Place of education	Cologne, Germany
Name and type of organisation providing education	Gesis, Leibniz Institute for Social Research
Principal subjects/Occupational skills covered	Course: Web Survey Design (instructors: Mick P. Couper, Ines Schaurer)
Date	August 6 – August 10, 2018
Place of education	Cologne, Germany
Name and type of organisation providing education	Gesis, Leibniz Institute for Social Research
Principal subjects/Occupational skills covered	Course: Applied Multiple Imputation (instructors: Jan Paul Heisig, Ferdinand Geissler)
Date	August 21 – August 25, 2017
Place of education	Utrecht, Netherlands
Name and type of organisation providing education	University of Utrecht
Principal subjects/Occupational skills covered	Course: Survey Research: Statistical Analysis and Estimation (instructors: Daniel Oberski, Anne Elevelt, Barry Schouten, Astrea Camstra, Bart Bakker)
Date	August 14 – August 18, 2017
Place of education	Utrecht, Netherlands
Name and type of organisation providing education	University of Utrecht
Principal subjects/Occupational skills covered	Course: Data Science: Statistical Programming with R (instructors: Gerko Vink, Jolien Cremers)
Date	July 25 – August 5, 2016
Place of education	Colchester, United Kingdom
Name and type of organisation providing education	University of Essex
Principal subjects/Occupational skills covered	Course: Advanced Survey Data Analysis and Survey Experiments (instructor: Brian Schaffner)
Date	July 11-22, 2016
Place of education	Colchester, United Kingdom
Name and type of organisation providing education	University of Essex
Principal subjects/Occupational skills covered	Course: Introduction to Survey Data Analysis (instructor: Rob Johns)
Date	August 24-28, 2015
Place of education	Cologne, Germany
Name and type of organisation providing education	Gesis, Leibniz Institute for Social Research
Principal subjects/Occupational skills covered	Course: Mixed-Mode and Mixed-Device Surveys (instructors: Vera Toepoel, Edith de Leeuw, Thomas Klausch)

Date	August 17-21, 2015
Place of education	Cologne, Germany
Name and type of organisation providing education	Gesis, Leibniz Institute for Social Research
Principal subjects/Occupational skills covered	Course: Introduction to Questionnaire Design (instructors: Marek Fuchs, Tanja Kunz, Anke Metzler)

Date	August 10-14, 2015
Place of education	Cologne, Germany
Name and type of organisation providing education	Gesis, Leibniz Institute for Social Research
Principal subjects/Occupational skills covered	Course: Introduction to Web Surveys (instructors: Katja Lozar Manfreda, Jernej Berzelak)

Date	June 8-15, 2015
Place of education	Zagreb, Croatia
Name and type of organisation providing education	Institute of Economics, Zagreb
Principal subjects/Occupational skills covered	Course: Panel Data Models and Extensions (instructor: Junsoo Lee)

Date	June 3 – July 26, 2013
Place of education	Ann Arbor, Michigan, United States of America
Name and type of organisation providing education	Survey Research Center (SRC), Institute for Social Research (ISR), University of Michigan
Principal subjects/Occupational skills covered	Sampling Program for Survey Statisticians (SPSS), Courses: SurvMeth 612 - Methods of Survey Sampling (instructors: James Wagner, Raphael Nishimura), SurvMeth 614 - Analysis Methods for Complex Sample Survey Data (instructors: Steven G. Heeringa, Brady T. West, Patricia A. Berglund), SurvMeth 616 - Workshop in Survey Sampling (instructors: James M. Lepkowski, Steven G. Heeringa, Raphael Nishimura)

Date	June 4-15, 2012
Place of education	Zagreb, Croatia
Name and type of organisation providing education	Faculty of Economics & Business, University of Zagreb
Principal subjects/Occupational skills covered	Course: Applied Econometrics (instructor: Robert J. Sonora)

Date	February 18 – March 17, 2011
Place of education	Zagreb, Croatia (on-line course)
Name and type of organisation providing education	Statistics.com, The Institute for Statistics Education, Arlington, VA, USA
Principal subjects/Occupational skills covered	Course: Introduction to Design of Experiments (instructor: Jim Rutledge)

Date	November 26 – December 23, 2010
Place of education	Zagreb, Croatia (on-line course)
Name and type of organisation providing education	Statistics.com, The Institute for Statistics Education, Arlington, VA, USA
Principal subjects/Occupational skills covered	Course: Sample Size and Power Determination (instructor: Tom Ryan)

AWARDS AND SCHOLARSHIPS

Date	2012
Place	Zagreb, Croatia
Name and type of organisation providing award	Faculty of Economics & Business, University of Zagreb
Award / Scholarship	Mijo Mirkovic Award, category C: University textbooks that in content, systematization of known and new cognition, and language expression significantly enhance the educational process and popularize economic science, for textbook "Poslovna statistika" (Dumicic, K., Bahovec, V., eds.)

Date	2008
Place	Zagreb, Croatia
Name and type of organisation providing award	Croatian Association of Accountants and Financial employees
Award / Scholarship	Award for the best diploma thesis in the field of accounting and finance in 2007

Date	2007
Place	Zagreb, Croatia
Name and type of organisation providing education	Faculty of Economics & Business, University of Zagreb
Award / Scholarship	Dean's Award for achievements during studies

Date	2007
Place of education	Zagreb, Croatia
Name and type of organisation providing education	Faculty of Economics & Business, University of Zagreb
Award / Scholarship	Dean's Award for achievements during 4 th year of study

Date	2005
Place of education	Zagreb, Croatia
Name and type of organisation providing education	Faculty of Economics & Business, University of Zagreb
Award / Scholarship	Dean's Award for achievements during 2 nd year of study

Date	2003
Place of education	Zagreb, Croatia
Name and type of organisation providing education	Faculty of Economics & Business, University of Zagreb
Award / Scholarship	3rd position in state high school competition subject in „Bookkeeping with Balancing“

PERSONAL SKILLS AND COMPETENCIES

Mother tongue(s)	Croatian
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Other language(s)

Language	English
Speaking	Very good (C1)
Writing	Very good (C1)
Understanding (listening and reading)	Very good (C1)

Language	German
Speaking	Good
Writing	Good
Understanding (listening and reading)	Good

TECHNICAL SKILLS AND COMPETENCIES

MS Word, MS Excel, MS Powerpoint, Statistica, Minitab, SPSS, EViews, SAS, WinQSB,

DRIVING LICENCE(S)

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ADDITIONAL INFORMATION**Professional Duties:**

- December 2017 – today – Member of Editorial Team (function: Member of Editorial Board), scientific journal Croatian Review of Economic, Business and Social Statistics
- December 2015 – today – Member of Editorial Team (function: Publication Editor), scientific journal Croatian Review of Economic, Business and Social Statistics
- February 2014 – today – Member of Editorial Team (function: Member of Editorial Board), scientific journal Business Systems Research
- December 2008 – today – Secretary at Postgraduate specialist study „Statistical methods for economic analyses and forecasting“
- October 2019 – February 2023 – President of Croatian Statistical Association (CSA), Zagreb, Croatia
- September 2016 – September 2020 – Treasurer of Croatian Society for Operational Research (CRORS), Zagreb, Croatia
- February 2019 – October 2019 – Member of Steering Committee of Croatian Statistical Association (CSA), Zagreb, Croatia
- June 2012 – January 2014 – Member of Editorial Team (function: Managing Editor), scientific journal Business Systems Research

Projects:

- 2014 – 2018 – Researcher on the project supported by Croatian Science Foundation „Statistical Modelling for Response to Crisis and Economic Growth in Western Balkan Countries“ (STRENGTHS); number of the project: 9402, leader: Ksenija Dumičić, PhD.
- 2008 – 2014 – Researcher on the scientific project “Statistical modeling for increasing competitiveness of modern organizations”, number of the project: 067-0161711-2483, leader: Ksenija Dumičić, PhD.
- 2014. – Researcher on the project: Short-term University of Zagreb financial support “Statistical modelling of the determinants of using information and communication technologies in European countries”, number of the project: DP1.7, leader: Ksenija Dumičić, PhD
- 2013. – Researcher on the project: Short-term University of Zagreb financial support 2 “Statistical modelling of chosen development indicators impact on service use in European countries in the modern environment”, number of the project: 1760, leader: Ksenija Dumičić, PhD

Memberships:

- February 2015 – today – Member of Croatian Statistical Association (CSA), Zagreb, Croatia
- July 2015 – today – Member of European Network for Business and Industrial Statistics (ENBIS), Amsterdam, the Netherlands
- January 2014 – today – Member of International Association of Survey Statisticians (IASS), Hague, the Netherlands
- January 2014 – today – Member of European Survey Research Association (ESRA), Southampton, United Kingdom
- January 2009 – today – Member of Croatian Society for Operational Research (CRORS), Zagreb, Croatia

LIST OF SCIENTIFIC PAPERS

Books:

1. Čizmešija, M., Sorić, P., Žmuk, B., (2024), **Osnove poslovne i gospodarske statistike**, Zagreb: Ekonomski fakultet, Zagreb, ISBN: 978-953-346-219-6.

Chapters in the books:

1. Jošić, H., Žmuk, B., (2023), **Covid-19 as an ultimate stock market Black Swan**, Drezgic, S., Host, A., Tomljanović, M., Žiković, S. (eds.), *Economics and business of the post COVID-19 world*, Rijeka: University of Rijeka, Faculty of Economics and Business, pp. 473-491, ISBN: 978-953-7813-76-5.
2. Knežević, B., Žmuk, B., (2021), **Independent sample - More hypotheses testing**, Białowas, S. (ed.) *Experimental design and biometric research. Toward innovations*, Poznań: Poznań University of Economics and Business, pp. 129-151, E-ISBN: 978-83-8211-079-1.
3. Białowas, S., Knežević, B., Szyszka, A., Žmuk, B., (2021), **Independent sample - Single hypothesis testing**, Białowas, S. (ed.) *Experimental design and biometric research. Toward innovations*, Poznań: Poznań University of Economics and Business, pp. 91-127, E-ISBN: 978-83-8211-079-1.
4. Dumičić, K., Žmuk, B., (2019), **Forecasting of the Internet Usage in the World Regions**, Mateev, M., Poutziouris, P. (eds.) *Creative Business and Social Innovations for a Sustainable Future. Advances in Science, Technology & Innovation (IEREK Interdisciplinary Series for Sustainable Development)*, Springer: Cham, pp. 155-165, ISBN: 978-3-030-01661-6, E-ISBN: 978-3-030-01662-3.
5. Pavković A., Dumičić K., Žmuk B., (2018), **Number of Automated Teller Machines in Selected European Countries: Exploration of Trends and Development Indicators Impacts**, Choudhry, T., Mizerka, J. (eds.) *Contemporary Trends in Accounting, Finance and Financial Institutions: Proceedings from the International Conference on Accounting, Finance and Financial Institutions (ICAFFI), Poznan 2016, Springer Proceedings in Business and Economics*, Springer: Cham, pp. 123-137, ISBN: 978-3-319-72861-2, E-ISBN: 978-3-319-72862-9.
6. Dumičić, K., Žmuk, B., (2017), **Enhancing statistical culture – the unused potential of Croatian enterprises**, Baldacci, E., Benoist, G., Boldsen, C., Galambosne Tiszberger, M., Gerendás, J., Karlberg, M., Manninen, A., Nymand-Andersen, P., Poggi, J. M., Sándor, G., Vereczkei, Z. (eds.) *Selected papers from the 2016 Conference of European Statistics Stakeholders - Special issue*, Luxembourg: Publications Office of the European Union, pp. 61-71, ISBN: 978-92-79-73628-5.
7. Dumičić, K., Žmuk, B., Knežević, B., (2017), **Concentration Level of the Largest World Retailers Based on Various Concentration Measures as Knowledge Needed by Decision Makers**, Lazibat, T., Wach, K., Knežević, B. (eds.) *Growth, Competitiveness and International Trade from the European Perspective*, Zagreb: University of Zagreb, Faculty of Economics and Business, pp. 63-75, ISBN: 978-953-346-044-4.
8. Čizmešija, M., Žmuk, B., (2015), **Grafička analiza podataka (Graphical data analysis)**, Bahovec, V., Erjavec, N., (eds.) *Statistika (Statistics)*, Zagreb: Element, pp. 33-54, ISBN: 978-953-197-651-0.
9. Dumičić, K., Žmuk, B., (2011), **Metode statističke kontrole kvalitete (Statistical Process Control Methods)**, in: Dumičić, K., Bahovec, V., (ed.) *Poslovna statistika (Business Statistics)*, Zagreb: Element, pp. 461-534, ISBN: 978-953-197-648-0.

Scientific papers published in scientific journals:

1. Hauptman, L., Žmuk, B., Dečman, N., (2024), **Tax governance in compliance: The role of motivational postures and behavioral intentions**, *Problems and Perspectives in Management*, Vol. 22, No. 1, pp. 500-513, ISSN: 1727-7051 (Print), 1810-5467 (Online).
2. Hauptman, L., Žmuk, B., Pavić, I., (2024), **Tax Compliance in Slovenia: An Empirical Assessment of Tax Knowledge and Fairness Perception**, *Journal of risk and financial management*, Vol. 17, No. 3, pp. 1-32, ISSN: 1911-8074 (Online).
3. Krpan, M., Gardijan Kedžo, M., Žmuk, B., (2023), **Exploring the Link Between Education Length and Employment Outcomes among Youth in Europe: A Hierarchical Clustering Approach**, *Business Systems Research Journal*, Vol. 14, No. 2, pp. 190-212, ISSN: 1847-9375 (Online).
4. Hladika, M., Žmuk, B., (2023), **Menadžerski izvještaji kao podloga za upravljanje poslovnim procesima**, *Zbornik Ekonomskog fakulteta u Zagrebu*, Vol. 21, No. 2, pp. 69-81, ISSN: 1333-8900 (Print), ISSN: 1845-495X (Online).
5. Jošić, H., Žmuk, B., (2023), **There is still life in factor proportions model: an evidence from the selected OECD countries**, *European Journal of Comparative Economics*, Vol. 20, No. 2, pp. 193-221, ISSN: 1824-2979.
6. Žmuk, B., Ivanda, K., (2023), **Self-Perceived Financial Sufficiency of the Elderly Population in Croatia**, *Revija za socijalnu politiku*, Vol. 30, No. 2, pp. 165-183, ISSN: 1330-2965 (Print), ISSN: 1845-6014 (Online).
7. Hunady, J., Pisar, P., Jošić, H., Žmuk, B., Pejić Bach, M., (2023), **Government and business funding of sources of funds for R&D at universities: Complements or substitutes?**, *South East European Journal of Economics and Business*, Vol. 18, No. 2, pp. 97-111, e-ISSN: 2233-1999 (Online).
8. Žmuk, B., Quresh, F. H., Khawaja, S., (2023), **Inequality in E-Learning in European Union Countries: Role of Gender, Education and Urban Development**, *Interdisciplinary description of complex systems*, Vol. 21, No. 5, pp. 441-457, ISSN: 1334-4676 (Online).
9. Pejić Bach, M., Žmuk, B., Kamenjarska, T., Bašić, M., Morić Milovanović, B. (2023), **The economic and sustainability priorities in the United Arab Emirates: conflict exploration**, *Journal of Enterprising Communities: People and Places in the Global Economy*, Vol. 17, No. 5, pp. 966-998, ISSN: 1750-6204 (Online).
10. Žmuk, B., Jošić, H., (2023), **Investigation of the sunspots and GDP nexus: The case of Balkan countries**, *Economic*

- Annals*, Vol. 68, No. 237, pp. 69-95, ISSN: 0013-3264.
11. Žmuk, B., Bonić, A., (2022), **Analiza stavova hrvatskih građana o načinima očuvanja vrijednosti imovine u razdobljima visoke stope inflacije**, *Zbornik Ekonomskog fakulteta u Zagrebu*, Vol. 20, No. 2, pp. 15-31, ISSN: 1333-8900 (Print), ISSN: 1845-495X (Online).
 12. Jošić, H., Žmuk, B., (2022), **A Machine Learning Approach to Forecast International Trade: The Case of Croatia**, *Business Systems Research Journal*, Vol. 13, No. 3, pp. 144-160, ISSN: 1847-9375 (Online).
 13. Pejić Bach, M., Kamenjarska, T., Žmuk, B., (2022), **Targets of phishing attacks: The bigger fish to fry**, *Procedia Computer Science*, Vol. 204, pp. 448-455, ISSN: 1877-0509 (Online).
 14. Žmuk, B., (2022), **The Use of Statistical Methods in Croatian Enterprises During the Early Stages of COVID-19**, *Naše gospodarstvo/Our Economy*, Vol. 68, No. 1, pp. 52-63, ISSN: 0547-3101 (Print), ISSN: 2385-8052 (Online).
 15. Hladika, M., Žmuk, B., (2021), **Exploring the level of utilizing management reports in decision-making in Croatian companies**, *Management*, Vol. 26, No. 2, pp. 63-78, ISSN: 1331-0194 (Print), ISSN: 1846-3363 (Online).
 16. Jošić, H., Žmuk, B., (2021), **Modeling stock market volatility in Croatia: a reappraisal**, *Ekonomski Vjesnik / Econviews - Review of Contemporary Entrepreneurship, Business, and Economic Issues*, Vol. 34, No. 2, pp. 431-442, ISSN: 0353-359X (Print), ISSN: 1847-2206 (Online).
 17. Jošić, H., Žmuk, B., (2021), **Intraregionalna trgovina i zagonetka izostale globalizacije**, *Oeconomica Jadertina*, Vol. 11, No. 2, pp. 40-63, ISSN: 1848-4956 (Print), ISSN: 1848-1035 (Online).
 18. Jošić, H., Žmuk, B., (2021), **Assessing the quality of COVID-19 data: evidence from Newcomb-Benford Law**, *Facta Universitatis, Series: Economics and organization*, Vol. 18, No. 2, pp. 135-156, ISSN: 0354-4699 (Print), ISSN: 2406-050X (Online).
 19. Žmuk, B., (2021), **Estimating completion and breakoff functions in a business web survey**, *Statistics in Transition New Series*, Vol. 22, No. 2, pp. 15-39, ISSN: 1234-7655 (Print), ISSN: 2450-0291 (Online).
 20. Žmuk, B., Jošić, H., (2021), **Godina dana bolesti COVID-19 u Republici Hrvatskoj: Pogled s kvantitativne perspektive**, *Zbornik Ekonomskog fakulteta u Zagrebu*, Vol. 19, No. 1, pp. 223-241, ISSN: 1333-8900 (Print), ISSN: 1845-495X (Online).
 21. Žmuk, B., Jošić, H., (2021), **Investigating the impact of GDP and distance variables in the gravity model using sign and rank tests**, *Eastern Journal of European Studies*, Vol. 12, No. 1, pp. 5-30, ISSN: 2068-651X (Print), ISSN: 2068-6633 (Online).
 22. Jošić, H., Žmuk, B., (2021), **The Application of the Law of Anomalous Numbers on Global Food Prices in Examining Psychological Pricing Strategies**, *Journal of international food & agribusiness marketing*, Vol. 33, No. 3, pp. 305-320, ISSN: 0897-4438 (Print), ISSN: 1528-6983 (Online).
 23. Knežević, B., Škrobot, P., Žmuk, B., (2021), **Position and Role of Social Supermarkets in Food Supply Chains**, *Business Systems Research Journal*, Vol. 12, No. 1, pp. 179-196, e-ISSN: 1847-9375.
 24. Žmuk, B., Jošić, H., (2021), **Testing Heckscher-Ohlin-Vanek theorem by using normalized trade balance approach**, *Facta Universitatis, Series: Economics and organization*, Vol. 18, No. 1, pp. 1-16, ISSN: 0354-4699 (Print), ISSN: 2406-050X (Online).
 25. Žmuk, B., Jošić, H., (2020), **Forecasting Stock Market Indices using Machine Learning Algorithms**, *Interdisciplinary Description of Complex Systems*, Vol. 18, No. 4, pp. 471-489, ISSN: 1334-4684 (Print), ISSN: 1334-4676 (Online).
 26. Jošić, H., Žmuk, B., (2020), **Investigation of urban regularities for Croatia in the period from 1857 to 2011**, *Ekonomski pregled: mjesečnik Hrvatskog društva ekonomista Zagreb*, Vol. 71, No. 4, pp. 307-329, ISSN: 0424-7558 (Print), ISSN: 1848-9494 (Online).
 27. Krpan, M., Pavković, A., Žmuk, B., (2020), **Cluster analysis of new EU member states' pension systems**, *Interdisciplinary Description of Complex Systems*, Vol. 18, No. 2-B, pp. 208-222, ISSN: 1334-4684 (Print), ISSN: 1334-4676 (Online).
 28. Pejić Bach, M., Dumičić, K., Žmuk, B., Ćurlin, T., Zoroja, J., (2020). **Data mining approach to internal fraud in a project-based organization**, *International Journal of Information Systems and Project Management*, Vol. 8, No. 2, pp. 81-101, ISSN: 2182-7796 (Print), ISSN: 2182-7788 (Online).
 29. Jošić, H., Žmuk, B., (2020), **Can Croatian urban hierarchy be approximated with the Fibonacci sequence? An analysis on historical population data**, *Ekonomika misao i praksa: časopis Sveučilišta u Dubrovniku*, Vol. 29, No. 1, pp. 3-28, ISSN: 1330-1039 (Print), ISSN: 1848-963X (Online).
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SIGNATURE

Date: April 08, 2024