

Wiktor Budziński

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Education

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| 2015 - 2023 | Ph.D. candidate in Economics, University of Warsaw
Thesis title: <i>Preference heterogeneity in discrete choice models: random parameters, latent variables, and spatial effects</i>
(Thesis defense date: 18.04.2023) |
| 2013 - 2015 | Master's degree in Economics, specialization: Econometrics and Computer Science, University of Warsaw
Thesis title: <i>The effects of non-constant marginal utility of cost for public goods valuation – the case of state forests in Poland</i>
Received on July 2, 2015 |
| 2010 - 2013 | Bachelor's degree in Mathematics, University of Warsaw
Thesis title: <i>Propagation of fast calcium waves</i>
Received on July 8, 2013 |
| 2010 - 2013 | Bachelor's degree in Economics, University of Warsaw
Thesis title: <i>Analysis of exchange rates equilibrium for chosen countries of Central and Eastern Europe using cointegration of time series</i>
Received on September 19, 2013 |

Professional experience – current research projects

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| Since January 2023 | <i>“NaturaConnect - Designing a resilient and coherent Trans-European Network for Nature and People”</i> <ul style="list-style-type: none">• Research assistant• University of Warsaw, Faculty of Economic Sciences• Tasks: modeling and mapping the demand and supply of the ecosystem services• European Commission (Horizon2020 program), WP led by prof. Marek Giergiczny |
| Since October 2022 | <i>“BLUEADAPT: Reducing climate based health risks in blue environments: Adapting to the climate change impacts on coastal pathogens”</i> <ul style="list-style-type: none">• Research and technical specialist• University of Warsaw, Faculty of Economic Sciences• Tasks: estimation of the effect of water pollution on the recreational value of the Baltic Sea• European Commission (Horizon2020 program), WP led by prof. Mikołaj Czajkowski |

- Since July 2019 *„A new research program devoted to enhancing the validity and robustness of stated preference valuation methods in the face of various behavioral phenomena and biases”:*
- **Research assistant**
 - University of Warsaw, Faculty of Economic Sciences
 - Tasks: developing a novel discrete choice model which allows for satisficing behavior
 - Financed by National Science Centre Poland (*SONATA BIS* program), led by prof. Mikołaj Czajkowski

Professional experience – past research projects

- May 2019 – September 2022 *“CONTRACTS2.0: Co-design of novel contract models for innovative agri-environmental-climate measures and for valorisation of environmental public goods”:*
- **Research assistant**
 - University of Warsaw, Faculty of Economic Sciences (project coordinated by Leibniz Centre for Agricultural Landscape Research)
 - Tasks: designing a stated preference survey, analysis of farmers’ and consumers’ preferences
 - Financed by European Commission (*Horizon2020* program), led by prof. Bettina Matzdorf
- March 2019 – May 2022 *“Household economics in three-generation families. The role of intra-household altruism in the distribution of common resources for health care”:*
- **Research assistant**
 - University of Warsaw, Faculty of Economic Sciences
 - Tasks: analyzing stated preference data with discrete choice models
- Financed by National Science Centre Poland (*OPUS* program), led by prof. Anna Bartczak
- March 2017 – March 2022 *“Development of hybrid models in context of valuation of non-market goods”:*
- **Project manager**
 - University of Warsaw, Faculty of Economic Sciences
 - Tasks: investigating endogeneity issue in hybrid choice models, using hybrid choice models for valuation with the travel cost method
 - Financed by National Science Centre Poland (*PRELUDIUM* program)
- July 2021 – December 2021 *“Behavioral response to social distancing in the COVID-19 pandemic”*
- **Researcher**
 - Cornell University, Civil and Environmental Engineering
 - Tasks: analyzing choice experiment data regarding online grocery shopping and preferences for COVID-19 vaccines
 - Financed by Kosciuszko Foundation, the American Centre of Polish Culture. Supervised by prof. Ricardo Daziano.
- December 2019 – September 2021 *“Development of methods and algorithms for demand forecasting, employed for dynamic ticket pricing of cultural events”:*
- **Research assistant**
 - University of Warsaw, Faculty of Economic Sciences
 - Tasks: analyzing and forecasting daily demand for cultural events, setting and testing dynamic pricing algorithm
 - Financed by Mazovian Unit of EU Programmes Implementation, led by prof. Mikołaj Czajkowski

June 2016 – June 2019	<p>„New methods of parametric modelling of consumer's preferences":</p> <ul style="list-style-type: none"> • Research assistant • University of Warsaw, Faculty of Economic Sciences • Tasks: programming of novel specifications of discrete choice models which allow for flexible distributions of preference heterogeneity, designing a survey for eliciting preferences regarding large-format advertising in Warsaw • Financed by National Science Centre Poland (SONATA program), led by prof. Mikołaj Czajkowski
May 2015 – May 2018	<p>„BALTICAPP: Wellbeing from the Baltic Sea applications combining natural science and economics":</p> <ul style="list-style-type: none"> • Research assistant • University of Warsaw, Faculty of Economic Sciences (project coordinated by University of Helsinki) • Tasks: using the travel cost method to estimate the recreational value of the Baltic Sea • Financed by BONUS+ program, led by prof. Kari Hyytiäinen

Scientific interests

Econometrics, discrete choice models, machine learning, non-market valuation, demand modeling, stated preferences, revealed preferences

Publications

- Budziński, W.**, and Czajkowski, M. (2022). Endogeneity and measurement bias of the indicator variables in hybrid choice models: A Monte Carlo investigation. *Environmental and Resource Economics*, 1-25.
- Colombo, S., **Budziński, W.**, Czajkowski, M., and Glenk, K. (2022). The relative performance of ex-ante and ex-post measures to mitigate hypothetical and strategic bias in a stated preference study. *Journal of Agricultural Economics*, 73(3), 845-873.
- Stark, O., **Budzinski, W.**, Jakubek, M., and Kosiorowski, G. (2022). On the optimal size of a joint savings association. *Journal of Comparative Economics*, 50(3), 804-814.
- Czajkowski, M., Bylicki, M., **Budziński, W.**, and Buczyński, M. (2022). Valuing externalities of outdoor advertising in an urban setting—the case of Warsaw. *Journal of Urban Economics*, 130, 103452.
- Stark, O., **Budzinski, W.**, and Jakubek, M. (2022). Risk aversion when preferences are altruistic. *Economics Letters*, 216, 110450.
- Stark, O. and **Budziński, W.**, (2021). The demand for gratitude as a restraint on the use of child labor: A hypothesis. *Journal of Demographic Economics*
- Stark, O. and **Budziński, W.** (2021). A social-psychological reconstruction of Amartya Sen's measures of inequality and social welfare. *Kyklos*, 74(4): 552-566.
- Czajkowski, M., Andersen, H.E., Blicher-Mathiesen, G., **Budziński, W.**, Elofsson, K., Hagemeyer, J., Hasler, B., Humborg, C., Smart, J.C., Smedberg, E. and Thodsen, H. (2021). Increasing the cost-effectiveness of nutrient reduction targets using different spatial scales. *Science of The Total Environment*

- Bartczak, A., **Budziński, W.** and Gołębiowska, B. (2021). Impact of beliefs about negative effects of wind turbines on preference heterogeneity and valuation regarding renewable energy development in Poland. *Resources, Conservation and Recycling*, 169: 105530.
- Bartczak, A., **Budziński, W.**, Chilton, S., McDonald, R. and Nielsen, J.S. (2021). Altruism and efficient allocations in three-generation households. *Journal of Risk and Uncertainty*, 62(2): 113-135.
- Gołębiowska, B., Bartczak, A., and **Budziński, W.** (2021). Impact of social comparison on preferences for Demand Side Management in Poland. *Energy Policy*.
- Budziński, W.**, and Czajkowski, M. (2021). Accounting for spatial heterogeneity of preferences in discrete choice models. *Central European Journal of Economic Modelling and Econometrics*.
- Wiśniewska, A., **Budziński, W.**, and Czajkowski, M. (2020). An economic valuation of access to cultural institutions: museums, theatres, and cinemas. *Journal of Cultural Economics*, 44: 563–587.
- Stark, O., **Budziński, W.**, and Jakubek, M. (2019). Pure rank preferences and variation in risk-taking behavior. *Economics Letters*, 184.
- Stark, O., **Budziński, W.**, and Kosiorowski, G. (2019). Switching queues, cultural conventions, and social welfare. *European Journal of Operational Research*, 278(3): 837-844.
- Stark, O., **Budziński, W.**, and Kosiorowski, G. (2019). The pure effect of social preferences on regional location choices: The evolving dynamics of convergence to a steady state population distribution. *Journal of Regional Science*, 59(5): 883-909.
- Czajkowski, M., and **Budziński, W.** (2019). Simulation error in maximum likelihood estimation of discrete choice models. *Journal of choice modelling*, 31: 73-85.
- Stark, O., and **Budziński, W.** (2019). Repercussions of negatively selective migration for the behavior of non-migrants when preferences are social. *Journal of Demographic Economics*, 85(2): 165-179.
- Stark, O., and **Budziński, W.** (2018). On the taxing of migrants' earnings while retaining a migrant workforce. *International Review of Economics & Finance*, 57: 151-155.
- Budziński, W.**, Campbell, D., Czajkowski, M., Demšar, U., and Hanley, N. (2018). Using geographically weighted choice models to account for the spatial heterogeneity of preferences. *Journal of Agricultural Economics*, 69(3): 606-626.
- Czajkowski, M., **Budziński, W.**, Campbell, D., Giergiczny, M., & Hanley, N. (2017). Spatial heterogeneity of willingness to pay for forest management. *Environmental and Resource Economics*, 68(3): 705-727.
- Czajkowski, M., Vossler, C. A., **Budziński, W.**, Wiśniewska, A., and Zawojska, E. (2017). Addressing empirical challenges related to the incentive compatibility of stated preferences methods. *Journal of Economic Behavior & Organization*, 142: 47-63.
- Czajkowski, M., Bartczak, A., **Budziński, W.**, Giergiczny, M., & Hanley, N. (2016). Preference and WTP stability for public forest management. *Forest Policy and Economics*, 71: 11-22.
- Karlõševa, A., Nõmmann, S., Nõmmann, T., Urbel-Piirsalu, E., **Budziński, W.**, Czajkowski, M., and Hanley, N. (2016). Marine trade-offs: Comparing the benefits of off-shore wind farms and marine protected areas. *Energy Economics*, 55: 127-134.
- Czajkowski, M., Ahtiainen, H., Artell, J., **Budziński, W.**, Hasler, B., Hasselström, L., Meyerhoff, J., Nõmmann, T., Semenienė, D., Söderqvist, T., Tuhkanen, H., Lankia, T., Vanags, A., Zandersen, M., Żylicz, T., and Hanley, N. (2015). Valuing the commons: An international study on the recreational benefits of the Baltic Sea. *Journal of environmental management*, 156: 209-217.

Budziński, W. (2015). Znaczenie zmienności krańcowej użyteczności kosztu ponoszonego przez konsumenta dla wyceny dóbr nierynkowych. *Ekonomia. Rynek, Gospodarka, Społeczeństwo*, 43: 7-39.

Conference, workshops and seminar presentations

Title	Conference	City	Date
Preferences for online grocery shopping during the COVID-19 pandemic – the role of concern and attitudes towards crowding	International Choice Modelling Conference	Reykjavik	2022-05-24
Endogeneity of indicator variables in hybrid choice models: Monte Carlo investigation vs. stated preference study	Online seminar at KU Leuven (invited talk)	Online	2022-05-05
A Novel Utility-Based Discrete Choice Model of Satisficing Behavior	CU Environmental & Resource Economics Workshop	Vail	2021-10-01
A Novel Utility-Based Discrete Choice Model of Satisficing Behavior	Virtual 96th annual conference of Western Economic Association International	Online	2021-06-30
Controlling for endogeneity of perceptions about survey consequentiality in stated preference modeling	26th Annual Conference of the European Association of Environmental and Resource Economists	Online	2021-06-24
Urban recreation during the COVID-19 pandemic – the case of the Vistula river in Warsaw	65th Annual Conference of the Australasian Agricultural and Resource Economics Society	Online	2021-02-11
Endogeneity of indicator variables in hybrid choice models: Monte Carlo investigation vs. stated preference study.	Choice Modelling Centre Seminar (invited talk)	Leeds	2020-01-24
Misspecification of preference heterogeneity structure in hybrid choice models	International Choice Modelling Conference	Kobe	2019-08-20
A novel utility-based discrete choice model of satisficing behavior	International Choice Modelling Conference	Kobe	2019-08-19
Misspecification of preference heterogeneity structure in hybrid choice models	24th Annual Conference of the European Association of Environmental and Resource Economists	Manchester	2019-06-27
Misspecification of preference heterogeneity structure in hybrid choice models	The LEEP Institute's Meeting of International Excellence in Environmental and Resource Economics	Exeter	2019-06-25
Simulation error in maximum likelihood estimation of discrete choice models	33rd Annual Congress of the European Economic Association, 71st European Meeting of the Econometric Society	Cologne	2018-08-27
Hybrid Choice Models and accounting for the endogeneity of indicator variables: a Monte Carlo investigation	23'rd Annual Conference of the European Association of Environmental and Resource Economics	Athens	2017-06-30
Mixed Logit, Geographically Weighted Choice Models, or One-Step Bayesian Estimation?	Pre-Conference Workshop on Spatial Dimensions of Stated Preferences, 23'rd Annual Conference of the EAERE	Athens	2017-06-28
Hybrid Choice Models and accounting for the endogeneity of indicator variables: a Monte Carlo investigation	International Choice Modelling Conference	Cape Town	2017-04-05

Hybrid Choice Models and accounting for endogeneity of indicator variables: a Monte Carlo investigation	5 th Workshop on Discrete Choice Modelling, University of Warsaw	Warsaw	2016-10-05
Preference and WTP stability for public forest management	Annual Conference of the Environmental and Resource Economists Association	Zurich	2016-06-24
Spatial heterogeneity of willingness to pay for forest management	Annual Conference of the Environmental and Resource Economists Association	Helsinki	2015-06-25

Courses taught at the University of Warsaw

- Choice modeling (for PhD students)
- Microeconometrics (for PhD students)
- Microeconometrics (for 1st year students of master degree in economics)
- Microeconomics I (for 1st year students of bachelor degree in economics)
- Microeconomics II (for 1st year students of bachelor degree in economics)

Scholarships and awards

- Kościuszko Foundation scholarship, 2021
 - Research visit at Cornell University (US)
- Finalist of *POLITYKA weekly* Science Awards, 2020
- Stipend “*Start*”, Foundation for Polish Science, Poland, 2017
- Doctoral scholarship, University of Warsaw, Poland, 2015-2019
- Scholarship for academic results, University of Warsaw, Poland, 2015-2019
- Rector’s scholarship for the best students, University of Warsaw, Poland, 2015, 2017-2019

Membership in scientific organizations

2015-2019: European Association of Environmental and Resource Economists

Software

- MATLAB (advanced) – codes for estimation of discrete choice models I co-developed are available at <https://github.com/czaj/DCE>
- R (advanced)
- Python (basic) – libraries: NumPy, Pandas, scikit-learn, openpyxl
- Microsoft Office (advanced)
- C++, VBA, SQL (basic)

Languages

- Polish - native
- English – fluent (C1)