

DR. RER. NAT. NEMANJA VACI - CURRICULUM VITAE

Department of Psychiatry

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PERSONAL INFORMATION:

Nationality: Serbian
Date of birth: 15.08.1989.
Working permits: England: Tier 2 working permit (CoS provided by current employer)
Austria: Rot-weiss-Rot karte plus (permanent resident)
Marital status: Engaged

UNIVERSITY EDUCATION:

2014 - 2017: Dr. rer. nat. in Psychology, Alpen-Adria-Universität Klagenfurt, Klagenfurt, Austria
Thesis supervisor: Prof. Dr. Merim Bilalić, Department of Psychology, Alpen-Adria-Universität Klagenfurt, Klagenfurt, Austria; Department of Psychology, University of Northumbria, Newcastle upon Tyne, United Kingdom
Thesis title: *Modeling Large Data in Psychology: Bayesian model of age-related changes*

2011 - 2013: M.Sc. in Applied Statistics, University Centre for Applied Statistics, University of Novi Sad, Serbia
Thesis supervisor: Prof. Dr. Petar Milin, Department of Journalism Studies, The University of Sheffield, Sheffield, United Kingdom
Module of choice: Statistics in Social sciences
Thesis title: *Robustness of methods for Estimating Regression Parameters: Case of Psycholinguistics Data*

2008 - 2011: BA in Psychology, Faculty of Philosophy, University of Novi Sad, Serbia

RESEARCH EXPERIENCE:

2017 - 2018: Postdoctoral Research Assistant in Applied Statistics, Department of Psychiatry, Warneford Hospital, University of Oxford, England

2014 - 2017: Senior Scientist (pre-doctoral fellow), Institute for Psychology,

Alpen-Adria-Universität Klagenfurt, Austria

2010 - 2014: Junior researcher, Laboratory for Experimental Psychology, University of Novi Sad, Serbia

TEACHING EXPERIENCE:

2014 - 2017: Senior Scientist, Institute for Psychology, Alpen-Adria-Universität Klagenfurt, Austria

Seminars: "Cognitive Ageing" - Bachelor in Psychology students
"Introduction to psycholinguistics" - Bachelor in Psychology students

Workshops: "Psychological Toolbox", - Master and PhD in Psychology students
"Mathematical modeling" - Master in Psychology students
"Presenting scientific work" - Master in Psychology students

2013 - 2014: Lecture assistant, Department of Psychology, Faculty for Media and Communication, University of Singidunum, Belgrade

Lectures: "Cognitive Psychology" - Bachelor in Psychology students
"Perception" - Bachelor in Psychology students

2013 - 2014: Lecture assistant, University Centre for Applied Statistics, University of Novi Sad, Novi Sad, Serbia

Workshops: "Introduction to Linear Modeling: Modeling in R statistical environment"
"Advance linear models in R" - Master in Applied Statistics students

2012 - 2014: Seminars in Psychology and Petnica International, Petnica Science Center, Serbia

Activities: Mentoring high school students in their first scientific ventures

ADVANCED TRAINING:

2017: Beyond the lab: Using big data to discover principles of cognition, Madison, Wisconsin, USA

2016: 2nd International Winter School on Big Data, Bilbao, Spain

2015: Vector Semantics Workshop, Tübingen, Germany

2014: Fifth Annual Jags and WinBUGS Workshop: Bayesian Modeling for Cognitive Sciences, Amsterdam, Netherlands

2013: Eurostudent V seminar for the execution of the Eurostudent Survey in national settings, Belgrade, Serbia

2012: 1st NetWordS Summer School: Interdisciplinary Approaches to Exploring the Mental Lexicon, Dubrovnik, Croatia

ACADEMIC HONORS AND AWARDS:

2014: Short Visit Grant: European Science Foundation (European Network on Word Structure: Cross-disciplinary Approaches to Understanding Word Structure in the Languages of Europe (NetWordS))

2011 - 2012: A special award for students' scientific and professional work, University of Novi Sad, Serbia

2009 - 2013: Student Scholarship, Ministry of Education, Republic of Serbia

ACQUIRED FUNDING:

2016 - 2017: Talent Austria Grant, Center for International Cooperation and Mobility (ICM), OEAD, Austria (20,000€)

LINGUISTIC PROFICIENCY:

Serbian: native speaker

English: excellent command/highly proficient (C1 - IELTS)

German: good command/working knowledge (B2.2 level - Deutsch in Österreich)

KNOWLEDGE OF RESEARCH METHODS:

Advanced programming and analysing skills in R statistical environment, Statistica and SPSS

Intermediate knowledge of programming in Pascal and Python

Utilization of Microsoft Windows and Linux operative systems

Experiment building in Super Lab Pro, Psychopy, and Open Sesame, E-prime

Knowledge of LatTex, MS Office package, Adobe Photoshop, Libra Office

Publication list

JOURNAL PUBLICATIONS:

Vaci, N., & Bilalić, M. (2017). Chess Database as a Research Vehicle in Psychology: Modeling Large Data. *Behavior Research Methods*, 49(4), 1227-1240. <https://doi.org/10.3758/s13428-016-0782-5>

Vaci, N., Gula, B., & Bilalić, M. (2015). Is Age Really Cruel to Experts? Compensatory Effects of Activity. *Psychology and Aging*, 30, 740-754. doi:10.1037/pag0000056

Vaci, N., Radanović, J., Marmolejo-Ramos, F., & Milin, P. (2014). Comprehending negated action(s): embodiment perspective. *Cognitive Processing*, 15, 71-72.

Vaci, N., Gula, B., & Bilalić, M. (2014). Restricting the range restrict conclusion. *Frontiers in Psychology*, 5, 1-4.

Vaci, N., & Radanović, J. (2013). Analysis of reaction times using mixed-effects models. *Primenjena psihologija*, 6(3), 312-332.

BOOK CHAPTERS:

- Bilalić, M., Conci, A., Graf, M., & Vaci, N. (2018). Neural Underpinning of Expertise in Games. In D.Z. Hambrick, G. Campitelli, & B. N. Macnamara (Ed.), *The Science of Expertise*. London: Routledge
- Van Rij, J., Vaci, N., Wurm, L., & Feldman, L. (forthcoming in 2018). Alternative quantitative methods in psycholinguistics: Implications for theory and design. In V. Pirrelli, I. Plagg & W. U. Dressler (Eds.), *Word knowledge and Word Usage: a Cross-disciplinary Guide to Mental Lexicon*. De Gruyter Mouton.

IN PREPARATION MANUSCRIPTS:

- Vaci, N., Gula B., Bilalić, M. (invited). Cognitive versus Motor Expertise: Investigation of Lifelong Changes with Big Data. *Behavior Research Methods*.
- Bilalić, M., Graf, M., Vaci, N., & Amory, H. D. (submitted). Far Transfer in Insight Problems - When the Right Solution is on the Doorstep.
- Bilalić, M., Graf, M., Vaci, N., & Amory, H. D. (submitted). Dynamics of the Insight Process. *Journal of Experimental Psychology: General*
- Vaci, N., Gula B., Bilalić, M. (in prep). B-lanus model of development across life: Bayesian model of age-related changes.

CONFERENCE PRESENTATIONS:

- Vaci, N. Gula, B., & Bilalić, M. (2017). Modeling Cognitive Aging: Expertise Perspective. *20th Conference of the European Cognitive Science Society*. Potsdam, Germany.
- Vaci, N. Gula, B., & Bilalić, M. (2017). Is Age Really Cruel to Experts? Compensatory Effects of Activity. *4th International Conference: Aging & Cognition*. Zurich, Switzerland.
- Vaci, N. Gula, B., & Bilalić, M. (2017). Years of Expertise in Chess: Is Age Really Cruel to Experts. *International Convention of Psychological Sciences (ICPS)*. Vienna, Austria.
- Vaci, N. (2016). Aging of cognitive processes: Modeling large data. *ÖZBF Kongress 2016. Chancen bieten und ergreifen*. Salzburg, Austria.
- Vaci, N. Gula, B., & Bilalić, M. (2016). Is Age Really Cruel to Experts - Compensatory Effects of Practice. *Cognitive Aging Conference 2016*, Atlanta, Georgia, USA.
- Vaci, N. Gula, B., & Bilalić, M. (2015). Is Age Really Cruel to Experts - Compensatory Effects of Practice. *European Society for Cognitive Psychology - ESCOP*, Paphos, Cyprus.
- Vaci, N. & Milin, P. (2015). Word frequency as a contextual type entropy. *Frequency Metrics in psycho- and sociolinguistics: Convergence or divergence?*, Freiburg, Germany.
- Vaci, N., Radanović, J., Marmolejo-Ramos, F., & Milin, P. (2014). Comprehending negated action(s): embodiment perspective. *12th Biannual Conference of the German Cognitive Science Society*, Tübingen, Germany.

- Nenadić, F., Vaci, N., & Milin, P. (2014). Assessment of the text genre based on graphical characteristics of the text, reading context and expertise. 3rd *Rijeka Days of Experimental Psychology - REPSI*, Rijeka, Croatia.
- Vaci, N., Gula, B., & Bilalić, M. (2014). Years of expertise in chess: Age is kinder to the initially more average. *11th Alps-Adria Psychology Conference*, Pécs, Hungary.
- Vaci, N. & Milin, P. (2014). Robustness of methods for estimating regression parameters: An application to reaction time data. *European Mathematical Psychology Group Meeting 2014*, Tübingen, Germany.
- Marmolejo-Ramos, F., Vaci, N., & Milin, P. (2013). The comprehension of emotions in narrative texts: The role of embodied knowledge. *40th Australasian Experimental Psychology Conference*. Adelaide, Australia.
- Vaci, N., Radanović, J. & Milin, P. (2013). Simulacija potvrdnih i odričnih akcija u tekstu. *Empirical studies in psychology XIX*. Faculty of Philosophy, Belgrade. (Eng: Simulation of affirmative and negated actions in texts)
- Vaci, N., Milin, P., & Marmolejo-Ramos, F. (2012). Embodiment of competing actions in written text. Poster session presented at the 1st International Symposium on the Attentive Listener in the Visual World: the Interaction of Language, Attention, Memory, and Vision, Allahabad, India.
- Vaci, N. & Milin, P. (2012). Comprehending Actions in Written Text. *Structures and Processes in Language and Text: Quantitative Linguistics Perspectives, QUALICO 2012*. Belgrade, Serbia.
- Vaci, N., & Milin, P. (2012). Razumevanje akcija u rečenicama. *Empirical studies in psychology XVIII*. Faculty of Philosophy, Belgrade. (Eng: Comprehending actions in sentences)
- Vaci, N., Radanović, J., & Milin, P. (2012). Comprehending negated action(s). *Rijeka Days of Experimental Psychology*, Rijeka, Croatia
- Vaci, N., Radanović, J., & Milin, P. (2011). The comprehension of emotions in written texts. *Experimental Psychology Days in Rijeka - REPSI*, Rijeka, Croatia.
- Vaci, N., Radanović, J., & Milin, P. (2011). The comprehension of emotions in short written texts. *Current Trends in Psychology*, International Psychology Conference. Novi Sad, Serbia. - Poster presentation

SUPERVISED STUDENTS:

Advisory role in 3 Bachelor of Science thesis in Psychology

Advisory role in 4 Master of Science thesis in Psychology

AD-HOC REVIEW PROCESS:

Psychology and Aging (2); Brain Research (1); Psihologija Journal (2); American Journal of Psychology (1);