

Tomáš Prošek

Psychometrician

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Nedakonice 545, 68738, Czech republic

work experience

- 2022 **Head of „Specific research“ grant (MUNI/A/1441/2021),**
Development and validation of personality questionnaire based on forced-choice format,
Member of „Specific research“ grant (MUNI/A/1497/2021),
Pilot study for the Czech version of iAX method,
Psychology department, Faculty of Art, Masaryk university, Brno, Czech republic
- 2021 **Member of „Specific research“ grant (MUNI/A/1323/2020),**
Validation of methods measuring analytical and holistic cognitive style,
Psychology department, Faculty of Art, Masaryk university, Brno, Czech republic
- 2020 – **Lecturer** - class *Extended introduction to a statistical inference,*
Psychology department, Faculty of Art, Masaryk university, Brno, Czech republic

education

09/2022 **Summer School**

Statistical Methods for Linguistics and Psychology, Advanced Bayesian data analysis,
University of Potsdam, Potsdam, Germany

08/2021 – 12/2021 **International student exchange**

University of Kansas, Lawrence, KS, USA

2018 – **PhD. study in Psychology**

Application of Bayesian approach within item response theory,
Psychology department, Faculty of Art, Masaryk university, Brno, Czech republic

2013 – 2018 **Master degree in Psychology**

Psychometric properties of two measurements of hope,
Psychology department, Faculty of Art, Masaryk university, Brno, Czech republic

English
German
Czech

C1
B1
Native

Ms office, MS excel
IBM SPSS Statistics
JASP, jamovi
R

Advanced

languages

software

areas of interest

Psychometrics, data analysis, Item response theory, reaction time analysis, drift-diffusion model, Bayesian statistics, modeling data from forced-choice format (Thurstonian IRT), cognitive diagnostic models, factor analysis, etc.

publications

Čunek, L., Ondřej, J., Blažíčková, I., Pupíková, V., Lacko, D., Prošek, T., & Šafárová, K. (in press). Handwriting quality: psychometric properties of two evaluation scales on Czech sample. *American Journal of Occupational Therapy*.

Horáková, J., & Prošek, T. (2022, November 24-25). *Pilot Data for The Czech Version of The iAX in Nonclinical Population* [Conference poster]. International Networking Conference for PhD students in Psychology, Umeå, Sweden.

Hummelová Z., Jančálek, R., Mackerle, Z., Hemza, J., Sochůrková, D., & Prošek, T. (2021, October 13-15). *Neuropsychologická úskalí péče o pacienty podstupující intraoperační monitoraci kognitivních a motorických funkcí – postřehy z praxe, klinické zkušenosti pracoviště* [Neuropsychological pitfalls in the care of patients undergoing intraoperative monitoring of cognitive and motor functions - observations from practice, clinical experience of the workplace] [Congress presentation]. Annual congress of Czech neurosurgical society, České Budějovice, Czech Republic.

Lacko, D., & Prošek, T. (2021). Podpora nulové hypotézy a její miskoncepce v psychologii: Teoretické představení testování ekvivalence [Null hypothesis support and its misconception in psychology: A theoretical introduction to equivalence testing]. *TESTFÓRUM*, 9 (14), 65-86. <https://doi.org/10.5817/TF2021-14-13648>

Lacko, D., & Prošek, T. (2021, April 22-23). *Užití testování ekvivalence při hledání důkazů diskriminační validity během vývoje psychodiagnostických metod* [Utilization of equivalence testing to support discriminant validity of psychodiagnostic methods during their development] [Conference presentation]. Psychological diagnostic, Brno, Czech republic.

Lacko, D., Prošek, T., Čeněk, J., Helísková, M., Ugwitz, P., Svoboda, V., ... Šasinka, Č. (2021, December 10). A Preregistered Validation Study of Methods Measuring Analytic and Holistic Cognitive Styles: What do We Actually Measure and How Well?. <https://doi.org/10.31234/osf.io/p6hr7>

Prošek, T., & Lacko, D. (2021, April 22-23). *Analýza reakčních časů pomocí difúzních IRT modelů* [Reaction time analysis by using diffusion IRT models] [Conference presentation]. Psychological diagnostic, Brno, Czech republic.

Prošek, T., Lacko, D., Alizey, J., & Novotná A. (2022, May 26-27). *Měření maladaptivních rysů v pracovní psychologii: Předběžné výsledky psychometrické studie* [Measuring maladaptive personality traits in industrial psychology: Preliminary results of psychometric study] [Conference abstract]. Industrial and organizational psychology, Bratislava, Slovakia.

Sanyal, S., Prošek, T., Yu, D., Hofmeyer, S., Zhai, Z., Ryder, A., & Poggio, J. (2022, February 25). *Revisiting a sense of belonging: The binomial logistic regression response and resolution* [Conference presentation]. School of Education & Human Sciences Research & Teaching Festival, Kansas City, United States.

Slezáčková, A., Cefai, C., & Prošek, T. (2018). Psychosocial Correlates and Predictors of Perceived Hope Across Cultures: A Study of Czech and Maltese Contexts. In A. M. Krafft, P. Perrig-Chiello, & A. M. Walker (Eds.), *Hope for a Good Life: Results of the Hope-Barometer International Research Program* (pp. 165–197). Springer International Publishing. https://doi.org/10.1007/978-3-319-78470-0_8

Slezáčková, A., Cefai, C., & Prošek, T. (2018, June 27-30). *Psychosocial predictors of perceived hope across cultures: A study of Czech and Maltese contexts* [Conference presentation] 9th European Conference on Positive Psychology ECPP 2018, Budapest, Hungary.

Slezáčková A, Guse, T, & Prošek, T. (2021). The role of perceived hope in harmony in life among Czech and South African adults. In Kumar Pradhan, Rabindra; Kumar, Updesh. *Emotion, Well-being, and Resilience: Theoretical Perspectives and Practical Applications* (pp.77-94). Apple Academic Press Inc.

Slezáčková, A., & Prošek, T. (2018, June 27-30). *The mediating effect of perceived hope on the relationship between dispositional hope and mental health* [Conference presentation]. 9th European Conference on Positive Psychology ECPP 2018, Budapest, Hungary.

Slezáčková A., Prošek T., Malatincová T., & Krafft A.M. (2020). Psychometrické vlastnosti české verze škály prožívané naděje: faktorová struktura a vnitřní reliabilita [Psychometric characteristics of the Czech version of The Perceived Hope Scale: factor structure and internal consistency]. *Československá psychologie*, 64(3), 288-305.