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Employment

Feb, 2006 – to date	<u>Full professor</u> Department of English and American Studies Constantine the Philosopher University, Nitra, Slovakia
April, 2008 – to date	<u>Research scientist</u> Institute of Informatics, Slovak Academy of Sciences, Slovakia
Sept, 2006 - May, 2007	<u>Visiting professor</u> Department of Cognitive and Linguistic Sciences Brown University, Providence, USA
Feb, 2005 – Feb, 2006	<u>Research scientist</u> Spoken Language Processing Group Department of Computer Science, Columbia University, New York, USA
Sep, 1995 – Aug, 1998	<u>Lecturer</u> Department of English and American Studies Constantine the Philosopher University, Nitra, Slovakia

Education

2019	<u>Professor</u>	Foreign languages and cultures Constantine the Philosopher University, Nitra, Slovakia
2012	<u>Habil. (doc.)</u>	Foreign languages and cultures Constantine the Philosopher University, Nitra, Slovakia
2005	<u>Ph.D.</u>	Linguistics New York University, New York, USA
2000	<u>M.A.</u>	Linguistics New York University, New York, USA
1995	<u>M.A.(Ed.)</u>	TEFL and Music Constantine the Philosopher University Nitra, Slovakia

Doctoral Dissertation

Title: Dynamics and Transparency in Vowel Harmony
 Advisor: Adamantios I. Gafos
 Description: Based on experimental articulatory data of transparent vowels in Hungarian vowel harmony, the central claim defended and formalized in this dissertation is that continuous phonetic details of all stem vowels including the transparent vowels are relevant for the phonological alternations in suffixes.

International Fellowships/Grants awarded

2020-2024 Conversational Brains (COBRA). European Union H2020 – Marie Skłodowska Currie Action – ITN
 2014-2017 Relationship between trust and entrainment in speech. Air Force Office of Scientific Research; FA9550-15-1-0055.
 2014-2015 Mobility cooperation grant between Slovak and Argentinean Academies of Sciences
 2009-2010 Alexander von Humboldt Fellowship, Ludwig Maximilians University, München, Germany
 2008 Andrew W. Mellon Fellowship, University of Edinburgh, The Institute for Advanced Studies in the Humanities
 2000 Linguistics Department Fellowship, Ohio-State University, Columbus
 1999-2004 Linguistics Department Fellowship, New York University, New York
 1998-1999 Fulbright Fellowship, New York University, New York
 1994 Tempus Grant, European Union, Middlesex University, London

Professional Service

2013 – to date Managing Editor, *Topics in Linguistics* [ISSN 1337-7590]
 2018 – to date Editorial Board Member, *Journal of International Phonetics Association* [ISSN 0025-1003]
 2013 – 2016 Associate Editor, *Laboratory Phonology* [ISSN 1868-6346]

Academic awards

2022 Prize of the Literary Fund for scientific literature for the book *Investigating Spoken English: A Practical Guide to Phonetics and Phonology Using Praat*. The awarded also by the dean the Dean of Faculty of Humanities and the rector of the Constantine the Philosopher University
 2017 Prize of the Dean of Faculty of Humanities for research and grant activities
 2012 Most notable result in basic research (Institute of Informatics, Slovak Academy of Sciences) for Beňuš (2011a).
 2012 Prize of the Dean of Faculty of Humanities for outstanding publications.

2010

Slovak Academy of Sciences Award (2 research teams) “Fluent speech recognition with a large dictionary for automatic transcription of parliamentary debates”

Publications

- Kuric, E., Demčák, P., Smereček, P., **Beňuš, Š.** (2025). [Can behavioral features reveal lying in an online personality questionnaire? The impact of mouse dynamics and speech.](#) *Computers in Human Behavior Reports*, 18, 100683.
- Kejriwal, J., **Beňuš, Š.** (2025). [Lexical, syntactic, semantic and acoustic entrainment in Slovak, Spanish, English, and Hungarian: A cross-linguistic comparison.](#) *Speech Communication*, 171, 103240.
- Mareková, L., **Beňuš, Š.** (2025). [The Effect of Cognitive Demand on L1 and L2 Speech Fluency.](#) *Proc. 12th edition of the Disfluency in Spontaneous Speech Workshop (DiSS 2025)*, 52-56, doi: 10.21437/DiSS.2025-11.
- Trouvain, J., Crible, L., Belz, M., Betz, S., **Beňuš, Š.**, Baqué, L., Cantarutti, M., Napoli, J.D., Didirková, I., Machuca, M., Mareková, L., Niculescu, O., Peltonen, P., Pistono, A., Schettino, L., Silber-Varod, V., Williams, S. (2025). [On variability in the identification and labelling of disfluencies — preliminary results from 23 annotations of the same data.](#) *Proc. 12th edition of the Disfluency in Spontaneous Speech Workshop (DiSS 2025)*, 57-61, doi: 10.21437/DiSS.2025-12.
- Kejriwal, J., Mishra, C., Skantze, G., Offrede, T., **Beňuš, Š.** (2024). [Does a Robot’s Gaze Behavior Affect Entrainment in HRI?](#) *Computing and Informatics*, 43(5), 1256–1284.
- Mareková, L., **Beňuš, Š.** (2024). Speech Fluency Production and Perception in L1 (Slovak) and L2 (English) Read Speech. *Language and Speech*, 0(0).
[\[https://doi.org/10.1177/00238309241230899\]](https://doi.org/10.1177/00238309241230899)
- Sabo, R., **Beňuš, Š.**, Kevická, V., Trnka, M., Rusko, M., Darjaa, S. & Kejriwal, J. (2024). Towards the Use of Social Robot Furhat and Generative AI in Testing Cognitive Abilities. *Human Affairs*, 34(2), 224-243. <https://doi.org/10.1515/humaff-2023-0134>
- Kruyt, J., Polónyiová, K., Sabo, R., Ostatníková, D., **Beňuš, Š.** (2024). The Slovak Autistic and Non-Autistic Child Speech Corpus: Task-Oriented Child-Adult Interactions. Proceedings, of LREC-COLING 2024, pp 16094–16099.
<https://aclanthology.org/2024.lrec-main.1399.pdf>
- Yuan Z., de Jong D., **Beňuš Š.**, Nguyen N., Feng R., Sabo R., Fadiga L., D’Ausilio A. (2024). [ART: The Alternating Reading Task Corpus for Speech Entrainment and Imitation.](#) Proceedings, of LREC-COLING 2024, Torino, Italy, 1548 – 1562.
- Mareková L., **Beňuš Š.** (2024). Task complexity and pausing behavior in L1 and L2 task-oriented dialogues. In. ed. Yiya Chen, Aoju Chen and Amalia Arvaniti, *Speech Prosody 2024: Proceedings from 13th International Conference*, Leiden, The Netherlands. Boston : International Science Community Association, ISSN 2333-2042, pp. 517-521.
- Kruyt, J., de Jong, D., D’Ausilio, A., **Beňuš, Š.** (2023). Measuring Prosodic Entrainment in Conversation: A Review and Comparison of Different Methods. *Journal of Speech, Language, and Hearing Research* 66(11), 4280-4314. doi:10.1044/2023_JSLHR-23-00094.

- Kejriwal, J., **Beňuš, Š.**, Rojas-Barahona, L.M. (2023). Unsupervised Auditory and Semantic Entrainment Models with Deep Neural Networks. *Proc. INTERSPEECH 2023*, 2628-2632, doi: 10.21437/Interspeech.2023-1929
- Kejriwal, J., **Beňuš, Š.** (2023). Relationship between auditory and semantic entrainment using Deep Neural Networks (DNN). *Proc. INTERSPEECH 2023*, 2623-2627, doi: 10.21437/Interspeech.2023-1947.
- Mareková, L., Kruyt, J., **Beňuš, Š.** (2023). The effect of (non-)native language and task complexity on speech entrainment. *20th International Congress of Phonetic Sciences (ICPhS)*, Aug 2023, Prague, Czech Republic, 1548-1552. [<https://guarant.cz/icphs2023/811.pdf>]
- Figueroa, C., **Beňuš, Š.**, Skantze, G. (2023). Prosodic Alignment in Different Conversational Feedback Functions. *20th International Congress of Phonetic Sciences (ICPhS)*, Aug 2023, Prague, Czech Republic, 1514-1518. [<https://guarant.cz/icphs2023/734.pdf>]
- Kruyt, J., Polónyiová, K., Ostatníková, D., **Beňuš, Š.** (2023). Lexical entrainment on target words during task-oriented interaction in children with and without autism spectrum disorder. *Proceedings of the 27th Workshop on the Semantics and Pragmatics of Dialogue*, Aug 2023, Maribor, Slovenia, 6-14. Andy Lücking, Chiara Mazzocconi & Darinka Verdonik (eds.), ISSN 2308-2275. [https://www.semdial.org/anthology/Z23-Kruyt_semdial_0004.pdf]
- Kruyt, J., Polónyiová, K., Ostatníková, D., **Beňuš, Š.** (2023). Global and local prosodic entrainment in a task-oriented interaction in autistic and neurotypical children. In *Proceedings of the First Workshop on Connecting Multiple Disciplines to AI Techniques in Interaction-centric Autism Research and Diagnosis (ICARD 2023)*, pages 1–11, Prague, Czechia. Association for Computational Linguistics. [<https://aclanthology.org/2023.icard-1.1.pdf>]
- Kejriwal, J., **Beňuš, Š.** (2023). Speech Entrainment and Emotion. *14th IEEE International Conference on Cognitive Infocommunications (CogInfoCom)*, Budapest, Hungary, pp. 99-104. doi: 10.1109/CogInfoCom59411.2023.10397502.
- Beňuš, Š.** (2022). Prosodic imitation of audiovisual and audio-only prompts in L2 English. *Proc. Speech Prosody 2022*, 787-791, doi: 10.21437/SpeechProsody.2022-160.
- Kruyt, J., **Beňuš, Š.**, Faget, C., Lancon, Ch., Champagne-Lavau, M. (2022). Prosodic and lexical entrainment in adults with and without schizophrenia. *Proc. Speech Prosody 2022*, 125-129, doi: 10.21437/SpeechProsody.2022-26.
- Kejriwal, J., **Beňuš, Š.**, Trnka, M. (2022). Stress detection using non-semantic speech representation. 32nd International Conference RADIOELEKTRONIKA, 2022, pp. 1-5, doi: 10.1109/RADIOELEKTRONIKA54537.2022.9764916.
- Sayers, D., Sousa-Silva, R., Höhn, S., et al. (2021). The Dawn of the Human-Machine Era: A forecast of new and emerging language technologies. Report for EU COST Action CA19102 ‘Language In The Human-Machine Era’. www.lithme.eu.
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- Sabo, R., **Beňuš, Š.**, Trnka, M., Ritomský, M., Rusko, M., Schaper, M., Szabo, J. (2021). Database of Speech under Stress in Slovak. *Jazykovedný časopis* 72 (2), 579-589.
- Mareková, L., **Beňuš, Š.** (2020). Slovak ‘no’ and its pragmatic meanings and functions in relation to prosody. *Topics in Linguistics* 21(1), 1-14.

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- Karpinsky, M., Andreeva, B., Asu, E. L., Daugavet, A., **Beňuš, Š.**, Mády, K. (2020). Central and Eastern Europe. In Gussenhoven, Carlos and Chen, Aoju (eds.) *The Oxford Handbook of Language Prosody*. Oxford University Press, pp. 225-235.
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- Brusco, P., Vidal, J., **Beňuš, Š.**, Gravano, A. (2020). A cross-linguistic analysis of the temporal dynamics of turn-taking cues using machine learning as a descriptive tool. *Speech Communication* 125, 24-40.
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- Beňuš, Š.**, Sabo, R., Trnka, M. (2019). Teaching L1 and L2 communication skills with a robotic head. In: 17th IEEE International conference on emerging e-learning technologies and applications, pp. 69-75.
- Kleman, P., **Beňuš, Š.** (2019). Correlation of perceived fluency with phonetic measures of speech rate and pausing. In: Proceedings of Information Technologies: Applications & Theory (ITAT).
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- Reichel, U., Mády, K., **Beňuš, Š.** (2018). Acoustic profiles for prosodic headedness and constituency. In: Proceedings of 9th International Conference on Speech Prosody, pp. 699-703.
- Beňuš, Š.**, Patacchiola, M., Trnka, M., Zanatto, D., Sabo, R., Cangelosi, A. (2018). Do people trust robots whose prosody synchronizes with the user? In Šašinka, Č., Strnadová, A., Šmideková, Z., Juřík, V. (eds.). Kognice a umělý život, sborník příspěvků [Cognition and Artificial Intelligence, conference proceedings], pp. 9-10, Brno: Flow.
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- Beňuš, Š.** (2016). The prosody of backchannels in Slovak. In: Proceedings of 8th International Conference on Speech Prosody, pp. 75-79.
- Gravano, A., Brusco, P., **Beňuš, Š.** (2016). Who Do You Think Will Speak Next? Perception of Turn-Taking Cues in Slovak and Argentine Spanish In: Proceedings of INTERSPEECH, pp. 1265-1269.
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- Levitan, R., **Beňuš, Š.**, Gravano, A., Hirschberg, J. (2015). Acoustic-prosodic entrainment in Slovak, Spanish, English and Chinese: A cross-linguistic comparison. Proceedings of 16th Annual Meeting of the Special Interest Group on Discourse and Dialogue, pp. 325-334.
- Beňuš, Š.**, Šimko, J. (2015). Prosodic boundaries in Lombard speech. Proceedings of the 18th International Congress of Phonetic Sciences.
- Bárkányi, Zs., **Beňuš, Š.** (2015). Prosodic conditioning of pre-sonorant voicing. Proceedings of the 18th International Congress of Phonetic Sciences.
- Bučar Shigemori, L., Pouplier, M., **Beňuš, Š.** (2015). Phonemic length and phrasal accent in Slovak consonantal and vocalic nuclei. Proceedings of the 18th International Congress of Phonetic Sciences.
- Šuch, O., **Beňuš, Š.** (2015). A new proposal for metric in multidimensional scaling. Proceedings of the 18th International Congress of Phonetic Sciences.
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- Reichel, U. D., Mády, K., **Beňuš, Š.** (2015). Parameterization of prosodic headedness. Proceedings of the 15th INTERSPEECH, pp. 929-933.
- Beňuš, Š.**, Reichel, U. D., Šimko, J. (2015). F0 discontinuity as a marker of prosodic boundary strength in Lombard speech. Proceedings of the 15th INTERSPEECH, pp. 953-957.
- Beňuš, Š.** (2015). Communicative Entrainment and Linguistic Representations. In Bondaruk, A., Prazmowska, A. (eds.) *Within Language Beyond Theories*, Cambridge Scholars Publishing, pp. 337-360.
- Levitan, R., **Beňuš, Š.**, Gravano, A., Hirschberg, J. (2015). Entrainment and Turn-Taking in Human-Human Dialogue. Proceedings of AAAI symposium on Turn-Taking and Coordination in Human-Machine Interaction, pp. 44-51.

- Beňuš, Š.**, Gravano, A., Levitan, R., Levitan, S., Willson, L., Hirschberg, J. (2014). Entrainment, Dominance and Alliance in Supreme Court Hearings. *Knowledge Based Systems*, 71, 3-14.
- Beňuš, Š.** (2014a). Social aspects of entrainment in spoken interaction. *Cognitive Computation*, 6(4), 802-813.
- Beňuš, Š.**, Šimko, J. (2014a). Emergence of prosodic boundary: continuous effects of temporal affordance on inter-gestural timing. *Journal of Phonetics*, 44, 110-129
- Beňuš, Š.** (2014b). Phonological Structure and Articulatory Phonetic Realization of Syllabic Liquids. In: Emonds, J. & Janebová, M. (eds.) *Language use and linguistic structure; Proceedings of the Olomouc Linguistics Colloquium 2013*, pp. 281-291.
- Beňuš, Š.** (2014c). Conversational Entrainment in the Use of Discourse Markers. In: S. Basis et al. (eds.) *Recent Advances of Neural Networks Models and Applications, Smart innovations, systems, and technologies 26*. Springer, pp. 345-352.
- Beňuš, Š.**, Trnka, M. (2014). Prosody, voice assimilation, and conversational fillers. In: *Proceedings of 7th International Conference on Speech Prosody*, pp. 75-79.
- Beňuš, Š.**, Levitan, R., Hirschberg, J., Gravano, A., Darjaa, S. (2014). Entrainment in Slovak collaborative dialogues. *Proceedings of the 4th IEEE Conference on Cognitive Infocommunications*, pp. 309-313.
- Beňuš, Š.**, Šimko, J. (2014b). F0-Peak Realization in Lombard Speech. In: Veselovská, L., Janebová, M. (eds.) *Complex Visibles Out There*, pp. 691-700, Palacký University, Olomouc.
- Beňuš, Š.**, Reichel, U. D., Mády, K. (2014). Modeling Accentual Phrase Intonation in Slovak and Hungarian. In: Veselovská, L., Janebová, M. (eds.) *Complex Visibles Out There*, pp. 677-690, Palacký University, Olomouc.
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- Beňuš, Š.**, Šimko, J. (2012). Rhythm and tempo in Slovak. Proceedings of the 6th Speech Prosody Conference, pp. 502-505.
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Research experience

LMU Munich	Researcher Collecting and analyzing articulatory data with electromagnetometry
Columbia University	Research scientist Developing a corpus of spontaneous speech Supervising the annotation of prosodic and discourse information Quantitative and qualitative analysis of the relationship between prosody and pragmatic/discourse functions of speech
Haskins Laboratories	Research assistant Collecting and analyzing articulatory data, NIH Grant HD-01994
New York University	Research Assistant Creating an annotated corpus of Singapore English metathesis and subsequent analysis
AT&T	Research consultant Annotating and analyzing English intonation
Ohio-State University	Student, Summer School in Linguistics Research methods in Laboratory Phonology, English Intonation, Quantitative Methods

Teaching experience

Constantine the Philosopher University, Nitra, Slovakia

2006-to date, 1995-8	<u>Phonetics and Phonology of English</u> <u>Discourse Analysis</u> <u>Public Speaking</u> <u>Introduction to the Study of Language</u> <u>American English</u>
Brown University, Providence, USA	
2007	<u>Phonetics-Phonology Interface</u> <u>Speech prosody</u>
2006	<u>Introduction to Phonology</u>
New York University, New York, USA	
2004, 2000	<u>Sound and Language</u> (instructor of record)
2003	<u>Phonological Analysis</u> (teaching assistant) <u>Language</u> (instructor of record)
2001	<u>Linguistic Perspectives</u> (preceptor)
E-KU, language school, Nitra, Slovakia	
1995-8	<u>Teaching English as a foreign language</u>

Technical expertise

ToBI (Tones and Break Indexes) – labeling and analysis of intonation
Praat – labeling and analysis of acoustic aspects of speech
Perl, Java, Unix, Matlab – basic computational skills
Electromagnetography, Ultrasound – collection of articulatory data