

Peter Mihajlik, PhD

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Born: 1975

Nationality: Hungarian



EDUCATION

- 2011 PhD, with dissertation "*Recognition of Spontaneous Hungarian Speech without Language Specific Rules*" at Budapest University of Technology and Economics (BME) - summa cum laude
- 1999–2002 PhD programme completed, BME, Doctoral School of Electrical Engineering
- 1994–1999 MSc in Electrical Engineering, BME, specializations: Telecommunications and Medical Engineering

POSITIONS

- Head of Speech Recognition Group, BME (2013-)
- Co-Founder of SpeechTex Inc. (2012-)
- Assistant professor, BME (2011-)
- Research assistant BME (2002-2011)

LANGUAGES

English – strong mid-level
German – passive mid-level
French, Russian – basics
Hungarian – native

MAIN TECHNICAL ACHIEVEMENTS

As researcher or R&D leader.

	Reference	Result
2021-	NISZ National Infocommunications Service Company	Public ASR services
2016-	Hungarian National Television	Real-time subtitling of broadcast conversations
2013-	European Commission - Directorate-General for Translation	Hungarian language dictation system optimized for translation
2012-	OTP (Largest Hungarian Bank)	Automatic transcription of call center conversations
2006-2007	Shoah Foundation, University of West Bohemia	ASR models for Hungarian language oral history conversations
2001-2007	Hungarian National Research Agency	The development of Hungarian language ASR (Automatic Speech Recognition)
1999-2000	NTT	The development of Hungarian ASR models for the Japanese NTT-REX engine
1997-1999	Hungarian Alliance of the Blind	A DSP based ultrasonic navigation aid for the blind

PUBLICATIONS

~ 70 peer-reviewed scientific papers

<https://scholar.google.com/citations?user=G5nii3gAAAAJ&hl=en>

OTHER SCIENTIFIC ACTIVITIES

Reviewer:

- InterSpeech
- ICASSP
- IEEE-TASLP
- Conference of Hungarian Computer Linguists
- SPECOM

EDUCATIONAL ACTIVITIES

Formerly supervised PhD students:

- Zoltán TŰSKE - <https://scholar.google.com/citations?user=vRSyRGQAAAAJ&hl>
- Balázs TARJÁN - <https://scholar.google.com/citations?user=5iq2-q4AAAAJ&hl>

Total num of supervised graduated MSc/BSc students ~ 100

Lectures, tutorials given (in English and Hungarian language):

- **Infocommunications:** digital signal processing, analog and digital modulations, radio communication basics, source and channel coding, radio and television broadcast, cellular networks
- **Media Informatics:** audio signal processing, audio fingerprinting, statistics-based classification, Gaussian Mixture models, Hidden Markov Models, neural networks, deep learning, convolutional and recurrent networks
- **Automatic speech recognition:** from the basic approaches to end-to-end deep learning systems

/LIMITED/ SOFTWARE SKILLS

Linux, Python, PyTorch, Keras, TensorFlow, Kaldi, Perl, C, C++

AWARDS, ACKNOWLEDGEMENTS

- Boronkay medallion (1994)
- Pollák-Virág prize for quality publication (1999)
- Budapest Chamber of Engineers diploma project award (1999)
- Best Student Poster Award at the NATO ASI “Dynamics of Speech Production and Perception” Workshop (2002)
- Huszty medallion (2008)
- Best paper award at the Conference of Hungarian Computer Linguists (2020)

PERSONAL

Married, father of two daughters.