Curriculum vitae

PERSONAL INFORMATION

Name:	Attila Andics
Birth date:	6 December 1980
Nationality:	Hungarian
ORCID ID:	https://orcid.org/0000-0002-5913-6100
Google Scholar:	https://scholar.google.hu/citations?hl=en&user=ypvYLsUAAAAJ
Lab homepage:	https://ethology.elte.hu/en/, https://neuro.ethology.elte.hu

I obtained master's degrees in cognitive neuroscience (Radboud University Nijmegen), psychology, mathematics and teaching (Eötvös Loránd University, Budapest), and a PhD in psycholinguistics and functional brain imaging based on work in the Max Planck Institute for Psycholinguistics and the Donders Centre for Cognitive Neuroimaging in Nijmegen, the Netherlands. I joined the Department of Ethology at Eötvös Loránd University in Budapest in 2012. I have been working with auditory neuroimaging for over twenty years, examining the neural mechanisms of voice and speech processing in humans and more recently dogs and pigs. I have played a central role in the developments of comparative dog-human fMRI, designed brain imaging protocols and nonstandard fMRI data analyses for dogs, published first- or last-authored work among others in Science, Current Biology, Neuroscience and Biobehavioural Reviews, NeuroImage, The Journal of Neuroscience, Animal Behaviour, Communications Biology, Royal Society Open Science, Scientific Reports, and Animal Cognition. Our discoveries were selected among the 10 most important scientific news of 2014 by fellow scientists; according to Guardian, were among the 10 most viewed research news of 2016, according to EurekAlert; and received a Best Paper in 2023 award of the leading cognitive neuroscience journal NeuroImage. The video abstracts we created to explain our findings to the public have been viewed over a million times; and more of our publications are in the journal's top 10 media attention scorers (also including Current Biology, 2024). In 2017 I was awarded the Hungarian Academy of Sciences' most prestigious 5-year 'Lendület' grant to establish my own research group, the Neuroethology of Communication Lab, in 2020 also supported by an ERC Starting Grant, on comparative mammalian social neuroscience to study word learning abilities and their precursors in multiple species. I am part of a consortium which received an MSCA grant in 2024 to establish a doctoral network on Voice Communication Sciences. Over the years my lab had 50+ members, many of whom received their own research grants, including ERC CoG and MSCA PD grants. As an education activist I have been volunteering since 2013 as the co-founder of the Pestalozzi Fridays teacher training courses where hundreds of practicing teachers receive hands-on methodological support that helps them work for the vision of lovable schools; and have developed gap-filling training programmes on sexuality education, now part of the teacher training curriculum.

EDUCATION

2013 PhD. Max Planck Institute for Psycholinguistics, Radboud University Nijmegen, the Netherlands; supervisors: James McQueen, Anne Cutler

2006 MSc in Mathematics teaching, MA in Psychology, MA in Psychology teaching. Eötvös Loránd University (ELTE), Budapest, Hungary

2005 MSc in Cognitive Neuroscience. Donders Institute, Centre for Cognitive Neuroimaging, Radboud University Nijmegen, the Netherlands

CURRENT POSITION

2017 – Senior research fellow, Principal Investigator, Neuroethology of Communication Lab, Department of Ethology, Eötvös Loránd University, Budapest, Hungary

PREVIOUS POSITIONS

2015 – 2017 Postdoctoral researcher, Department of Ethology, Eötvös Loránd University, Budapest

2012 – 2015 Research fellow, MTA-ELTE Comparative Ethology Research Group, Budapest

2009 – 2011 Assistant research fellow, MR Research Centre, Semmelweis University, Budapest

2005 – 2008 PhD student, Max Planck Institute for Psycholinguistics, Nijmegen, the Netherlands

GRANTS

2024 MSCA Doctoral Network (4y, consortium member), European Commission
2022 National Brain Research Programme (4y, co-PI), Hungarian Acad. of Sciences – **450 000 EUR**
2020 ERC Starting Grant (5y, PI), European Commission – **1 900 000 EUR**
2017 Lendület ('Momentum') Programme (5y, PI), Hungarian Academy of Sciences – **606 060 EUR**
2017 Outstanding Impact Grant (2y, PI), National Research, Dev. and Innov. Office – **60 600 EUR**
2015 Bolyai János Research Fellowship (3y, indiv.), Hungarian Academy of Sciences – **13 580 EUR**
2015 Postdoctoral Grant (3y, individual), National Research, Dev. and Innov. Office – **68 890 EUR**
2013 Postdoctoral Grant (2y, individual), Hungarian Academy of Sciences
2005 Doctoral Fellowship (3 years, individual), Max Planck Gesellschaft

AWARDS

2023 Outstanding Publications Award, Eötvös Loránd University
2023 Best Paper Award (Editor's choice, NeuroImage)
2018 Outstanding Impact Publication Award, Semmelweis University
2015 Youth Prize of the Hungarian Academy of Sciences
2013 International Conference Fellowship for Young Researchers, Hungarian Academy of Sciences
2003 Scholarship of the Hungarian Republic (1 year)
1999 National student competition in Latin language, 5th place
1999 National student competition in Psychology, 1th place

SUPERVISION

At present I supervise all staff of a highly interdisciplinary and international research group of >15.

PD	10+ postdoctoral fellows (leading to 10+ individual PD grants, incl. ERC CoG, MSCA PD)
PhD	2 defended, 6 in progress (leading to 5+ individual excellence grants)
MSc/BSc	20+ students completed, from 10+ universities (5+ prizes won on student competitions)

TEACHING ACTIVITIES

Lately I developed several gap-filling courses and trainings to link the knowledge bases of ethologists and neuroscientists, and to develop overall education and presentation skills.

2022 –	Training to improve teachers' efficiency course (teacher training; ELTE)
2022 –	Sexuality education in schools – a methods' training course (teacher training, MSc; ELTE)
2022 –	Cognitive neuroscience course (MSc, PhD; ELTE)
2021 –	Strategic thinking for scientific writing course (MSc, PhD; ELTE)
2021 –	Cognitive and neuroethology course (MSc, PhD; ELTE)
2015 –	Integrative methods in ethology course (BSc, MSc; ELTE)
2014 –	fMRI methods course (ELTE; Hungarian Academy of Sciences, Hungary)
2014 –	Dissemination of scientific results: presentation trainings, video abstract creation trainings (multiple international research centres)
2013 –	Education methods' training for educators (Pestalozzi Programme, Council of Europe)

ORGANISATION OF SCIENTIFIC MEETINGS

2021	Org.com member, MITT conference, Budapest
2016	Chair of organizing committee, VIII. Dubrovnik Conference on Cognitive Science: Comparative Cognition, from Ethology to Cognitive Science
2000-2001	Pszinapszis – Budapest Psychology Days

REVIEWING ACTIVITIES

2021 – Review Board, National Scientific Student Competition (OTDK), Hungary
2015 – Review Board, National Research, Development and Innovation Office, Hungary
2014 – Scientific Evaluation, Doctoral Programme, Department of Ethology (ELTE)
2010 – Review Editor, Frontiers in Auditory Cognitive Neuroscience

I have been reviewing manuscripts for Science, Science Advances, Current Biology, Plos Biology, Cerebral Cortex, NeuroImage, Journal of Neurophysiology, Scientific Reports, Frontiers in Neuroscience, Frontiers in Psychology, Learning and Behavior, PLoS ONE, iScience, etc.

MEMBERSHIPS OF SCIENTIFIC SOCIETIES

Cognitive Neuroscience Society, International Behavioral Neuroscience Society, Organisation for Human Brain Mapping, Magyar Pszichológiai Társaság, Magyar Etológiai Társaság, Magyar Idegtudományi Társaság (the Hungarian associations of psychologists, ethologists, neuroscientists)

TALKS AT INTERNATIONAL CONFERENCES & SEMINARS (selection)

2024 Invited seminar talk, ISLE Colloquium series, Zürich
2024 Invited plenary talk, VoiceID conference, Marburg
2023 Invited seminar talk, Aix-Marseille University, Marseille
2023 Invited plenary talk, Canine Science Forum, Budapest
2020 Selected speaker, Cognitive Neuroscience Society conference (online)
2020 Invited plenary talk, Magyar Etológiai Társaság conference (online)
2019 Invited plenary talk, Peking University Autism Forum, Beijing
2019 Invited seminar talk, Chinese Academy of Sciences, Beijing
2018 Invited talk, Neuronus conference, Kraków
2017 Invited plenary talk, MMCE conference, Budapest
2017 Invited plenary talk, MNRT conference, Visegrád
2017 Invited seminar talk, Messerli Research Institute, Wien
2017 Selected speaker, Behaviour conference, Estoril
2016 Selected plenary speaker, Canine Science Forum, Padova
2014 Invited seminar talk, Voice Neurocognition Laboratory, Glasgow
2008 Invited seminar talk, MARCS Institute, Sydney
2008 Selected plenary speaker, LabPhon conference, Wellington
2007 Selected speaker, ICPhS, Saarbrücken

MEDIA COVERAGE OF WORK

My recent discoveries using awake dog fMRI and EEG, and those including family pigs received outstanding media attention and beyond the extensive press coverage these are also featured in several documentaries at world-class channels (e.g. BBC, NHK, ZDF/ARTE, Discovery Channel, Animal Planet). I am a regular speaker at major national large-audience science dissemination events (Dog Ethology conference, Researchers' night, Mindenki Akadémiája).

TOP 10 PUBLICATIONS

Boros M, Magyari L, Morvai B, Hernández-Pérez R, Dror S, Andics A (2024) Neural evidence for referential understanding of object words in dogs. *Current Biology*

Gergely A, Gábor A, Gácsi M, Kis A, Czeibert K, Topál J, Andics A (2023) Dog brains are sensitive to infant- and dog-directed prosody. *Communications Biology*

Cuaya L, Hernández-Pérez R, Boros M, Deme A, Andics A (2022) Speech naturalness detection and language representation in the dog brain. *NeuroImage*

Boros M, Magyari L, Török D, Bozsik A, Deme A, Andics A (2021) Neural processes underlying statistical learning for speech segmentation in dogs. *Current Biology*

Bunford N, Hernández-Pérez R, Farkas E, Cuaya L, Szabó D, Szabó Á, Gácsi M, Miklósi Á, Andics A (2020) Comparative brain imaging reveals analogous and divergent patterns of species- and face-sensitivity in humans and dogs. *The Journal of Neuroscience*

Pérez Fraga P, Gerencsér L, Andics A (2020) Human proximity seeking in family pigs and dogs. *Scientific Reports*

Andics A, Miklósi Á (2018) Neural processes of vocal social perception: Dog-human comparative fMRI studies, *Neuroscience & Biobehavioral Reviews*

Andics A, Gábor A, Gácsi M, Faragó T, Szabó D, Miklósi Á (2016) Neural mechanisms for lexical processing in dogs. *Science*

Andics A, Gácsi M, Faragó T, Kis A, Miklósi Á (2014) Voice-sensitive regions in the dog and human brain are revealed by comparative fMRI. *Current Biology*

Andics A, McQueen JM, Petersson KM, Gál V., Rudas G, Vidnyánszky Z (2010) Neural mechanisms for voice recognition. *Neuroimage*

Budapest, 6 August 2024