

Leah Fostick
Dean, Full Professor
School of Health Science
Department of Communication Disorders

Research interests

Psychoacoustics
Auditory temporal processing
Sound localization
Speech perception
Music perception

Qualifications

PhD, The Relationship between Aging and Auditory Temporal Processing , Bar-Ilan University
Oct 2001 → Dec 2005
Award Date: 1 Jun 2006

Master, Auditory temporal processing among dyslexic readers, Bar-Ilan University
Oct 1998 → Jul 2001
Award Date: 1 Jun 2002

Bachelor
Oct 1995 → Jul 1998
Award Date: 1 Jun 1999

Employment

Dean

Dean
School of Health Science
Ariel University
1 Oct 2024 → present

Full Professor

Full Professor
Department of Communication Disorders
Ariel University
26 Jul 2017 → present

Vice Dean

Vice Dean
School of Health Science
Ariel University
1 Oct 2023 → 30 Sep 2024

Vice Dean

Vice Dean
School of Health Science
Ariel University
1 Oct 2022 → 30 Sep 2023

Research outputs

Individual differences in temporal order judgment

Fostick, L., Zwilling, M. & Babkoff, H., Dec 2025, In: Scientific Reports. 15, 1, 1062.

Digit-in-Noise Test as a Hearing Screening Test for Individuals With Intellectual Disability

Shmerler, N., Fostick, L. & Saban-Bezelel, R., Mar 2025, In: Journal of Intellectual Disability Research. 69, 3, p. 224-233
10 p.

Speech perception following transcranial direct current stimulation (tDCS) over left superior temporal gyrus (STG) (including Wernicke's area) versus inferior frontal gyrus (IFG) (including Broca's area)

Lifshitz-Ben-Basat, A., Taitelbaum-Swead, R. & Fostick, L., 9 Sep 2024, In: Neuropsychologia. 202, 108959.

Evaluating the Compatibility of the Digit-in-Noise Test with Hearing Screening in Individuals with Intellectual Disabilities: A Pilot Study

Shmerler, N., Saban-Bezelel, R. & Fostick, L., Jun 2024, In: Diagnostics. 14, 11, 1202.

Hebrew Digits in Noise (DIN) Test in Cochlear Implant Users and Normal Hearing Listeners

Taitelbaum-Swead, R. & Fostick, L., Jun 2024, In: Audiology Research. 14, 3, p. 457-468 12 p.

The Effect of Hearing Aids on Sound Localization in Mild Unilateral Conductive Hearing Loss

Zavdy, O., Fostick, L., Fink, N., Danin, S., Levin, A., Lipschitz, N. & Hilly, O., 20 May 2024, In: Journal of the American Academy of Audiology. 33, 6, p. 357-363 7 p.

Measuring "Where": A Comparative Analysis of Methods Measuring Spatial Perception

Fostick, L. & Fink, N., Dec 2023, In: Sensors. 23, 23, 9434.

Individual Differences in Auditory Training Benefits for Hearing Aid Users

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Perforated Concave Earplug (pCEP): A Proof-of-Concept Earplug to Improve Sound Localization without Compromising Noise Attenuation

Fink, N., Levitas, R., Eisenkraft, A., Wagnert-Avraham, L., Gertz, S. D. & Fostick, L., Sep 2023, In: Sensors. 23, 17, 7410.

Benefits of Auditory Training with an Open-Set Sentences-in-Babble-Noise

Barda, A., Shapira, Y. & Fostick, L., Aug 2023, In: Applied Sciences (Switzerland). 13, 16, 9126.

Ten-Year Follow-Up of Earthquake Survivors: Long-Term Study on the Course of PTSD Following a Natural Disaster

Karamustafaloğlu, O. K., Fostick, L., Çevik, M., Zukerman, G., Tankaya, O., Güveli, M., Bakım, B., Karamustafaloğlu, N. & Zohar, J., Mar 2023, In: Journal of Clinical Psychiatry. 84, 2, 22m14377.

Speech recognition in noise task among children and young-adults: a pupillometry study

Trau-Margalit, A., Fostick, L., Harel-Arbeli, T., Nissanholtz Gannot, R. & Taitelbaum-Swead, R., 2023, In: Frontiers in Psychology. 14, 1188485.

The Effect of Age, Type of Noise, and Cochlear Implants on Adaptive Sentence-in-Noise Task

Taitelbaum-Swead, R. & Fostick, L., Oct 2022, In: Journal of Clinical Medicine. 11, 19, 5872.

Editorial: Age-related changes in auditory perception

Fostick, L. & Schneider, B. A., 8 Aug 2022, In: Frontiers in Psychology. 13, 986586.

The Effects of Psychophysical Methods on Spectral and Spatial TOJ Thresholds

Fostick, L. & Babkoff, H., 1 Jul 2022, In: Sensors. 22, 13, 4830.

The role of tone duration in dichotic temporal order judgment II: Extending the boundaries of duration and age

Fostick, L. & Babkoff, H., Mar 2022, In: PLoS ONE. 17, 3 March, e0264831.

AzBio Sentence test in Hebrew (HeBio): development, preliminary validation, and the effect of noise

Taitelbaum-Swead, R., Dahan, T., Katzenel, U., Dorman, M. F., Litvak, L. M. & Fostick, L., 2022, In: Cochlear Implants International. 23, 5, p. 270-279 10 p.

Comparison of Preschooler Verbal and Graphic Symbol Production Across Different Syntactic Structures

Savaldi-Harussi, G. & Fostick, L., 25 Nov 2021, In: Frontiers in Psychology. 12, 702652.

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Obsessive Compulsive Disorder during Coronavirus Disease 2019 (COVID-19): 2- And 6-Month Follow-Ups in a Clinical Trial

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Auditory training to improve speech perception and self-efficacy in aging adults

Fostick, L., Taitelbaum-Swead, R., Kreitler, S., Zokraut, S. & Billig, M., Apr 2020, In: Journal of Speech, Language, and Hearing Research. 63, 4, p. 1270-1281 12 p.

The "Morning Voice": The Effect of 24 Hours of Sleep Deprivation on Vocal Parameters of Young Adults

Icht, M., Zukerman, G., Hershkovich, S., Laor, T., Heled, Y., Fink, N. & Fostick, L., 2020, In: Journal of Voice. 34, 3, p. 489.e1-489.e9

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Reduced electrophysiological habituation to novelty after trauma reflects heightened salience network detection

Zukerman, G., Pinhas, M., Ben-Itzhak, E. & Fostick, L., Nov 2019, In: Neuropsychologia. 134, p. 107226 107226.

Music-related abilities among readers with dyslexia

Lifshitz-Ben-Basat, A. & Fostick, L., 1 Oct 2019, In: Annals of Dyslexia. 69, 3, p. 318-334 17 p.

The effect of delayed auditory feedback (DAF) and frequency altered feedback (FAF) on speech production: cochlear implanted versus normal hearing individuals

Taitelbaum-Swead, R., Avivi, M., Gueta, B. & Fostick, L., 3 Jul 2019, In: Clinical Linguistics and Phonetics. 33, 7, p. 628-640 13 p.

The effect of stimulus frequency, spectrum, duration, and location on temporal order judgment thresholds: distribution analysis

Fostick, L., Lifshitz-Ben-Basat, A. & Babkoff, H., 1 Jul 2019, In: Psychological Research. 83, 5, p. 968-976 9 p.

Early automatic hyperarousal in response to neutral novel auditory stimuli among trauma-exposed individuals with and without PTSD: An ERP study

Zukerman, G., Fostick, L. & Ben-Itzhak, E., Nov 2018, In: Psychophysiology. 55, 11, e13217.

Auditory temporal processing, reading, and phonological awareness among aging adults

Ronen, M., Lifshitz-Ben-Basat, A., Taitelbaum-Swead, R. & Fostick, L., Oct 2018, In: Acta Psychologica. 190, p. 1-10 10 p.

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Religious coping and posttraumatic stress symptoms following trauma: The moderating effects of gender

Zukerman, G., Korn, L. & Fostick, L., Nov 2017, In: Psychology of Religion and Spirituality. 9, 4, p. 328-336 9 p.

Age-related changes in auditory processing and speech perception: cross-sectional and longitudinal analyses

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The effect of age and type of noise on speech perception under conditions of changing context and noise levels

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Carmi, L., Fostick, L., Burshtein, S., Cwikel-Hamzany, S. & Zohar, J., 1 Aug 2016, In: CNS Spectrums. 21, 4, p. 279-282 4 p.

Auditory and visual information in speech perception: A developmental perspective

Taitelbaum-Swead, R. & Fostick, L., 2 Jul 2016, In: Clinical Linguistics and Phonetics. 30, 7, p. 531-545 15 p.

Short-term learning effect in different psychoacoustic measures

Fostick, L., Wechsler, S. & Peretz, E., 1 Sep 2014, In: Journal of Basic and Clinical Physiology and Pharmacology. 25, 3, p. 307-312 6 p.

Treatment with Ziprasidone for schizophrenia patients with OCD

Juven-Wetzler, A., Fostick, L., Cwikel-Hamzany, S., Balaban, E. & Zohar, J., Sep 2014, In: European Neuropsychopharmacology. 24, 9, p. 1454-1462 9 p.

Comparison of criminal activity between israeli veterans with and without PTSD

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Mortality rates between treated post-traumatic stress disorder Israeli male veterans compared to non-diagnosed veterans

Zohar, J. & Fostick, L., Jan 2014, In: European Neuropsychopharmacology. 24, 1, p. 117-124 8 p.

Effect of 24 hours of sleep deprivation on auditory and linguistic perception: A comparison among young controls, sleep-deprived participants, dyslexic readers, and aging adults

Fostick, L., Babkoff, H. & Zukerman, G., 2014, In: Journal of Speech, Language, and Hearing Research. 57, 3, p. 1078-1088 11 p.

Efficacy of temporal processing training to improve phonological awareness among dyslexic and normal reading students

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Aging and speech perception: Beyond hearing threshold and cognitive ability

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Temporal and non-temporal processes in the elderly

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Physical co-morbidity among treatment resistant vs. treatment responsive patients with major depressive disorder

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Different response patterns between auditory spectral and spatial temporal order judgment (TOJ)

Fostick, L. & Babkoff, H., 2013, In: Experimental Psychology. 60, 6, p. 432-443 12 p.

The role of tone duration in dichotic temporal order judgment

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No changes in cochlear implant mapping and audiometric parameters in adolescence

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Acute obsessive compulsive disorder (OCD) in veterans with posttraumatic stress disorder (PTSD)

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High prevalence of obsessive-compulsive disorder among posttraumatic stress disorder patients

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Prolonged exposure therapy for combat- and terror-related posttraumatic stress disorder: A randomized control comparison with treatment as usual

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The economic impact of depression: Resistance or severity?

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The premenstrual syndrome and fibromyalgia - Similarities and common features

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Short term sleep deprivation, language comprehension and auditory temporal resolution

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Serious life events among resistant and non-resistant MDD patients

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Post-traumatic stress disorder: Facts and fiction

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Physical activity protects male patients with post-traumatic stress disorder from developing severe fibromyalgia

Arnsion, Y., Amital, D., Fostick, L., Silberman, A., Polliack, M. L., Zohar, J., Rubinow, A. & Amital, H., Jul 2007, In: *Clinical and Experimental Rheumatology*. 25, 4, p. 529-533 5 p.

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Special Populations

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Amital, D., Fostick, L., Sasson, Y., Kindler, S., Amital, H. & Zohar, J., May 2005, In: *European Neuropsychopharmacology*. 15, 3, p. 279-282 4 p.

Effect of the diurnal rhythm and 24 h of sleep deprivation on dichotic temporal order judgment

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