

# ALICE TURK

## University education

- 1993 Ph.D. in Linguistics; Cornell University
- 1991 MA in Linguistics; Cornell University
- 1987 AB with high honours in Classics; Program in Linguistics; Princeton University

## Employment history

- 1995-present Professor of Linguistic Phonetics since 2009; Reader 2005-2009; Lecturer 1995-2005; Linguistics & English Language, University of Edinburgh
- 1993-1995 Post-doctoral Fellowship, Massachusetts Institute of Technology; Research Laboratory of Electronics, Speech Communication Group.
- 1992-1993 Post-doctoral Fellowship; SUNY at Buffalo, Peter Jusczyk, PI.

## Principal research grants

- 2022-2024 AHRC-DFG; Boegel, T. and Turk, A. (PIs), Lai, C. (Co-I). "Prosodic Structure at the Interface Between Language and Speech". £355,631
- 2022-2026 ERC Advanced Grant (Horizon 2020); Turk, A. "Planning the Articulation of Spoken Utterances". €2375,025
- 2011-2013 Carnegie Trust; Stuart-Smith, J., Scobbie, J., Turk, A., Barras, W., Durham, M., Timmins, C. & Beavan, D. "An online Ultrasound Tongue Imaging resource for Phonetics, Linguistics, and Speech Therapy teaching at Scottish Universities".
- 2010-2011 AHRC Fellowship; Turk, A. "How does speech timing work?". £57,396.
- 2007-2010 EPSRC; Turk, A., King, S., Pouplier, M., Renals, S. "An Edinburgh Speech Production Facility". In collaboration with Scobbie, Hardcastle & Lickley at Queen Margaret University. £689,500.
- 2003-2006 AHRC; Turk, A. "Prosodic structures and processes in speech production". £150,000.
- 2003-2006 Leverhulme Trust; Turk, A., Nakai, S. and Kunnari, S. "Stages of prosodic and segmental processing in speech perception". £118,000.
- 2004 British Academy; Turk, A. and Nakai, S. "Cross-linguistic final lengthening patterns: quantity and non-quantity languages". £7500
- 2000-2003 Wellcome Trust; Turk, A. and Watson, J. "The development of acoustic cue weighting in speech perception". £110,000.
- 2000 Royal Society of Edinburgh Visiting Research Fellowship; Turk, A. "Durational behavior of function words in Dutch", Leiden, the Netherlands. £3600.
- 1997-2001 ESRC; Scobbie, J., Hewlett, N. and Turk, A. "The Scottish Vowel Length Rule: Acoustics, Articulation and Acquisition". £140,000.
- 1996-1999 EPSRC; Turk, A. and Isard, S "The Domain and Distribution of Durational Effects in Speech". £143,000.
- 1993 National Research Service Award: National Institutes of Health grant for postdoctoral research awarded to A. Turk; sponsor: Ken Stevens, Massachusetts Institute of Technology. \$18,000

## Leadership at the University of Edinburgh

- 2020-2022 Head of Linguistics & English Language
- 2019-2020 Deputy Head of School of Philosophy, Psychology & Language Sciences
- 2019 Director of Undergraduate Studies, School of Philosophy, Psychology & Language Sciences
- 2015-2018 Postgraduate Advisor, Linguistics & English Language
- 2009-2015 Convenor, Computing & Equipment Committee School of Philosophy, Psychology and Language Sciences

### Teaching—Courses taught since 1995

Speech Production & Perception (Honours & MSc)  
Special Topics in Phonetics (Honours & MSc)  
Phonetics & Laboratory Phonology (Honours & MSc)  
Advanced Phonology (Honours)  
Linguistics & English Language 2B: Ear Training  
Linguistics & English Language 2B: Connected Speech  
Linguistics & English Language 1A: Sign Language Lectures  
Introduction to Language Research (MSc)

### Supervision

14 postdoctoral researchers, 24 completed PhD students (17 as first or co-supervisor; 6 as second supervisor, 1 as third supervisor), 5 MSc by Research students.

### Professional Service

2005-2009 Associate Editor, *Journal of Phonetics*  
2000-2005 Associate Editor, *Language and Speech*

## SELECTED PUBLICATIONS

- Elie, B., Šimko, J., & Turk, A. (2024). Optimization-based modeling of Lombard speech articulation: Supraglottal characteristics. *ASA Express Letters*, 4(1).
- Elie, B., Lee, D. N., & Turk, A. (2023). Modeling trajectories of human speech articulators using General Tau Theory. *Speech Communication*, 151, 24-38.
- Turk, A. (2022). Commentary on Chapter 5: Time to Consider Nonoscillatory, Phonology-Extrinsic Timing Approaches to Prosody in Speech Motor Control. In J. Barnes & S. Shattuck-Hufnagel (Eds.), *Prosodic Theory and Practice*. MIT Press.
- Turk, A., Scobbie, J. M., Geng, C., Bard, E. G., Campbell, B., Dubourg, E., Hardcastle, W., Hoole, P., King, S., Lickley, R., Macmartin, C., Nakai, S., Pouplier, M., Renals, S., Richmond, K., Wiegand, R., White, K., & Wrench, A. (2022). *Edinburgh Speech Production Facility (ESPF) DoubleTalk* Edinburgh DataShare. <https://doi.org/https://doi.org/10.7488/ds/3508>
- Turk, A., & Shattuck-Hufnagel, S. (2020). *Speech Timing: Implications for Theories of Phonology, Phonetics, and Speech Motor Control*. Oxford University Press.
- Turk, A., & Shattuck-Hufnagel, S. (2020). Timing evidence for symbolic phonological representations and phonology-extrinsic timing in speech production. *Frontiers in Psychology*, 10, 2952.
- van Heuven, V. J., & Turk, A. (2020). Phonetic correlates of word and sentence stress. In C. Gussenhoven & A. Chen (Eds.), *The Oxford Handbook of Language Prosody* (pp. 150–165). Oxford University Press.
- Turk, A., & Shattuck-Hufnagel, S. (2014). Timing in talking: what is it used for, and how is it controlled? *Philosophical Transactions of the Royal Society B*, 369.
- Turk, A. (2014). Durational effects of phrasal stress. In J. Caspers, Y. Chen, W. Heeren, J. Pacilly, N. O. Schiller, & E. v. Zanten (Eds.), *Above and Beyond the Segments. Experimental linguistics and phonetics* (pp. 311-322). John Benjamins.
- Geng, C., Turk, A., Scobbie, J. M., et al. (2013). Recording speech articulation in dialogue: Evaluating a synchronized double electromagnetic articulography setup. *Journal of Phonetics*, 41(6), 421-431.
- Turk, A., & Shattuck-Hufnagel, S. (2013). What is speech rhythm?: A commentary inspired by Arvaniti & Rodriquez, Krivokapić, and Goswami & Leong. *Laboratory Phonology*, 4(1), 93-118.
- Dimitrova, S., & Turk, A. (2012). Patterns of accentual lengthening in English four-syllable words. *Journal of Phonetics*, 40(3), 403-418.
- Turk, A. (2012). Prosodic structure and its phonetic implementation: Temporal aspects. In A. C. Cohn, C. Fougeron, & M. K. Huffman (Eds.), *The Oxford Handbook of Laboratory*

- Phonology*. (pp. 242-253). Oxford University Press.
- Turk, A. (2012). The temporal implementation of prosodic structure. In A. C. Cohn, C. Fougeron, & M. K. Huffman (Eds.), *The Oxford Handbook of Laboratory Phonology* (pp. 242-253). Oxford University Press.
- Nakai, S., Turk, A., Suomi, K., Granlund, S., Ylitalo, R., & Kunnari, S. (2012). Quantity constraints on the temporal implementation of phrasal prosody in Northern Finnish. *Journal of Phonetics*, 40, 796–807.
- Nakai, S., & Turk, A. E. (2011). Separability of prosodic phrase boundary and phonemic information. *Journal of the Acoustical Society of America*, 129(2), 966-976. .
- Turk, A. (2010). Does prosodic constituency signal relative predictability? A Smooth Signal Redundancy hypothesis. *Laboratory Phonology*, 1(2), 227-262.
- White, L., & Turk, A. E. (2010). English words on the Procrustean bed: polysyllabic shortening reconsidered. *Journal of Phonetics*, 38, 459-471.
- Nakai, S., Kunnari, S., Turk, A., Suomi, K., & Ylitalo, R. (2009). Utterance-final lengthening and quantity in Northern Finnish. *Journal of Phonetics*, 37, 29-45.
- Sugahara, M., & Turk, A. (2009). Durational correlates of English sublexical constituent structure. *Phonology*, 26, 477-524
- Turk, A. (2009). Is prosody the music of speech? Advocating a functional perspective. *International Journal of Speech-Language Pathology* 11(4), 316-320.
- Astésano, C., Bard, E. G., & Turk, A. (2007). Structural influences on initial accent placement in French. *Language and Speech*, 50(3), 423-446.
- Turk, A. E., & Shattuck-Hufnagel, S. (2007). Multiple targets of phrase-final lengthening in American English words. *Journal of Phonetics*, 35(4), 445-472.
- Aylett, M., & Turk, A. (2006). Language redundancy predicts syllabic duration and the spectral characteristics of vocalic syllable nuclei. *Journal of the Acoustical Society of America*, 119(5), 3048-3058.
- Turk, A., Nakai, S., & Sugahara, M. (2006). Acoustic segment durations in prosodic research: a practical guide. In S. Sudhoff, D. Lenertová, R. Meyer, S. Pappert, P. Augurzky, I. Mleinek, N. Richter, & J. Schliesser (Eds.), *Methods in Empirical Prosody Research* (pp. 1-28). De Gruyter.
- Aylett, M., & Turk, A. (2004). The Smooth Signal Redundancy Hypothesis: A functional explanation for relationships between redundancy, prosodic prominence, and duration on spontaneous speech. *Language and Speech*, 47, 31-56.
- Turk, A. E., & Shattuck-Hufnagel, S. (2000). Word-boundary-related duration patterns in English. *Journal of Phonetics*, 28, 397-440.
- Cambier-Langeveld, T., & Turk, A. E. (1999). A cross-linguistic study of accentual lengthening: Dutch vs. English. *Journal of Phonetics*, 27, 255-280
- Turk, A. E., & White, L. (1999). Structural influences on accentual lengthening in English. *Journal of Phonetics*, 27, 171-206.
- Scobbie, J. M., Hewlett, N., & Turk, A. E. (1999). Standard English in Edinburgh and Glasgow: the Scottish Vowel Length Rule revealed. In P. Foulkes & G. Docherty (Eds.), *Urban Voices* (pp. 230-245). Arnold.
- Turk, A. E., & Sawusch, J. R. (1997). The domain of accentual lengthening in American English. *Journal of Phonetics*, 25, 25-41.
- Turk, A. E., & Sawusch, J. R. (1996). The processing of duration and intensity cues to prominence. *The Journal of the Acoustical Society of America*, 99(6), 3782-3790.
- Shattuck-Hufnagel, S., & Turk, A. E. (1996). A prosody tutorial for investigators of auditory sentence processing. *Journal of Psycholinguistic Research*, 25(2), 193-247.
- Turk, A. (1994). Articulatory phonetic clues to syllable affiliation: gestural characteristics of bilabial stops. In P. A. Keating (Ed.), *Phonological Structure and Phonetic Form: Papers in Laboratory Phonology III*. Cambridge University Press.
- Kemler Nelson, D. G., Jusczyk, P. W., Mandel, D. R., Myers, J., Turk, A., & Gerken, L. A. (1995). The Headturn Preference Procedure for testing auditory perception. *Infant Behavior and Development*, 18, 111-116.