

Hauptseminar Hoole, Experimentalphonetik, WiSe0910

Literatur

A. PERTURBATION UND KOMPENSATION

1. Statische Perturbation (v.a “bite-block”)

- Lindblom, B., Lubker, J., and Gay, T. (1979). “Formant frequencies of some fixed-mandible vowels and a model of speech motor programming by predictive simulation”, *J. Phonetics* 7, 147-161.
- Gay, T., Lindblom, B., and Lubker, J. (1981). “Production of bite-block vowels: Acoustic equivalence by selective compensation”, *J. Acoust. Soc. Am.* 69, 802- 810. (gayetal_jasa_69_1_1981.pdf)
- Fowler, C A; Turvey, M T (1981). “Immediate compensation in bite-block speech”, *Phonetica*, 37(5-6), 306-326
- Gay, T. & Turvey, M. (1979). “Effects of afferent and efferent interference on speech production”, *Proc. 9th. Int. Cong. Phonetic Sci. (Copenhagen)*, 2, 344-350
- Perkell, J. (1979). “On the use of orosensory feedback: An interpretation of compensatory articulation experiments”, *Proc. 9th Int. Cong. Phon. Sci. Copenhagen*, 2, 358-364
- Kelso, J. A., Tuller, B. (1983). “Compensatory articulation” under conditions of reduced afferent information: a dynamic formulation”, *J. of Speech and Hearing Research* 26, 217-224
- Hoole, P. (1987). “Bite-block speech in the absence of oral sensibility”, *Proceedings of the XIth ICPhS, Aug. 1-7, 1987, Tallinn, Estonia*, (bb_tallinn.pdf)
- McFarland, D. H.; Baum, S. R. (1995). “Incomplete compensation to articulatory perturbation”, *J. Acoust. Soc. Am*, 97, 1865 - 1874 (mcfarlandbaum_jasa97_3_1995.pdf)
- Baum, Shari R; McFarland, David H; Diab, Mai (1996). “Compensation to articulatory perturbation: Perceptual data”, *J. Acoust. Soc. Am*, 99, 3791 - 3795 (baumetal_jasa_99_6_1996.pdf)
- Savariaux, C., Perrier, P., and Orliaguet, J. P. (1995). “Compensation strategies for the perturbation of the rounded vowel [u] using a lip tube: A study of the control space in speech production”, *J. Acoust. Soc. Am.* 98, 2428-2442. (savariauxetal_jasa_98_5_1995.pdf)
- Savariaux, C.; Perrier, P.; Orliaguet, J.-P.; Schwartz, J.-L. (1999). “Compensation strategies for the perturbation of French [u] using a lip tube. II. Perceptual analysis”, *J. Acoust. Soc. America*, 106(1), 381-393 (savariauxetal_jasa_106_1_1999.pdf)
- Menard, L., Perrier, P., Aubin, J., Savariaux, C., Thibeault, M. (2008). “Compensation strategies for a lip-tube perturbation of French [u]: An acoustic and perceptual study of 4-year-old children”, *JASA*, 124(2), 1192-1206 (menardetal_jasa_124_2008.pdf)

2. Dynamische Perturbation

- Folkins, J. W., Abbs, J. H. (1975). “Lip and jaw motor control during speech: Responses to resistive loading of the jaw”, *J. of Speech and Hear. Res.* 18, 207-220
- Folkins, J. W., and Zimmermann, G. N. (1982). “Lip and jaw interaction during speech: Responses to perturbation of lower-lip movement prior to bilabial closure”, *J. Acoust. Soc. Am.* 71, 1225-1233. (folkinszimmermann_jasa_71_5_1982.pdf)
- Gracco, V. L., Abbs, J. H. (1985). “Dynamic control of the perioral system during speech: Kinematic analyses of autogenic and nonautogenic sensorimotor processes”, *J. of Neurophysiology* 54, 418-431
- Kelso, J. A. S., B. Tuller, E. Vatikiotis-Bateson and C. A. Fowler (1984). “Functionally specific articulatory cooperation following jaw perturbations during speech: Evidence for coordinative structures”, *J. Experimental Psychology, Human Perception and Performance* 10, 812-832 (kelsoetal_jexppsyh_10_6_1984.pdf)
- Shaiman, S. (1989). “Kinematic and electromyographic responses to perturbation of the jaw”, *J. Acoust. Soc. Am.* 86, 78- 88. (shaiman_jasa_86_1_1989.pdf)
- Shaiman, S. & Gracco, V. (2002). “Task-specific sensorimotor interactions in speech production”,

- Exp Brain Res (2002) 146:411–418 (Shaiman_Gracco.pdf)
- Munhall, K. G.; Löfqvist, A.; Scott Kelso, J. A. (1994). “Lip-larynx coordination in speech: Effects of mechanical perturbations to the lower lip”, J. Acoust. Soc. Am, 95, 3605 - 3617 (munhalletal_jasa_95_6_1994.pdf)
- Gomi, Hiroaki; Honda, Masaaki; Ito, Takayuki; Murano, Emi Z. (2002). “Compensatory articulation during bilabial fricative production by regulating muscle stiffness”, J. of Phonetics, 30(3), 261-279 (gomietal_jphon_30_3_2002.pdf)
- Honda, Masaaki; Fujino, Akinori; Kaburagi, Tokihiko (2002). “Compensatory responses of articulators to unexpected perturbation of the palate shape”, J. of Phonetics, 30(3), 281-302 (hondaetal_jphon_30_3_2002.pdf)
- Honda, M. and Murano, E. (2003). “Effects of tactile and auditory feedback on compensatory articulatory response to an unexpected palatal perturbation”. Proceedings of the 6th Speech Production Seminar, Sydney, 97-100. (Hondamurano_sps6.pdf)

3. Änderungen der Ansatzrohrgeometrie

- Hamlet, S. L., and Stone, M. (1976). “Compensatory vowel characteristics resulting from the presence of different types of experimental dental prostheses”, J. Phonetics 4, 199-218.
- Hamlet, S. L., and Stone, M. (1978). “Compensatory alveolar consonant production induced by wearing a dental prosthesis”, J. Phonetics 6, 227-248.
- Hamlet, S. L., Cullison, B. L., and Stone, M. L. (1979). “Physiological control of sibilant duration: Insights afforded by speech compensation to dental prostheses”, J. Acoust. Soc. Am. 65, 1276-1285. (hamletetal_jasa_65_5_1979.pdf)
- Hamlet, S. L. (1984). “Aerodynamic and palatographic characteristics of the early stages of speech adaptation to a dental appliance”. J. Phonetics 12, 157-167.
- Hamlet, S. L. (1988). “Speech compensation for prosthodontically created palatal asymmetries”, J. of Speech and Hearing Research 31, 48-53
- McFarland, David H; Baum, Shari R; Chabot, Caroline (1996). “Speech compensation to structural modifications of the oral cavity”, J. Acoust. Soc. Am, 100, 1093 - 1105 (mcfarlandetal_jasa_100_1996.pdf)
- Baum, S.R. & McFarland, D.H. (1997). “The development of speech adaptation to an artificial palate”, JASA 102(4), 2353-2359 (baummcfarland_jasa_102_4_1997.pdf)
- Baum, S.R.; McFarland, D.H. (2000). “Individual differences in speech adaptation to an artificial palate”, J. Acoust. Soc. America, 107(6), 3572-3575 (baummcfarland_jasa_107_6_2000.pdf)

4. Änderungen der auditorischen Rückmeldung

4.1 F0

- Jones, J.A.; Munhall, K.G. (2000). “Perceptual calibration of F0 production: Evidence from feedback perturbation”, J. Acoust. Soc. America, 108(I), 1246-1251 (jonesmunhall_jasa_108_3_2000.pdf)

4.2 Formanten

- Houde, J. F., and Jordan, M. I. (1998). “Sensorimotor adaptation in speech production”, Science 279, 1213–1216. (houdejordan.htm)
- Houde, J. F. and Jordan, M. I. (2002). “Sensorimotor adaptation of speech I: Compensation and adaptation,” J. Speech Lang. Hear. Res. 45, 295–310. (houdejordan_jslhr_45_2002.pdf)
- Munhall, K.G., E. N. MacDonald, S. K. Byrne, and I. Johnsrude (2009). “Talkers alter vowel production in response to real-time formant perturbation even when instructed not to compensate”. J. Acoust. Soc. Am. 125, 384-390 (munhalletal_jasa_2009.pdf)
- Pile, E.J.S. , H.R. Dajani, D.W. Purcell & K.G. Munhall (2007), “Talking under Conditions of Altered Auditory Feedback: Does Adaptation of One Vowel Generalize to Other Vowels?”, Proc. ICPhS XVI 645-648 (pileetal_icphs_2007.pdf)

- Purcell, David W. and Kevin G. Munhall (2006a). "Compensation following real-time manipulation of formants in isolated vowels", *J. Acoust. Soc. Am.* 119, 2288-2297 (purcell_munhall_jasa_119_4_2006.pdf)
- Purcell, David W. and Kevin G. Munhall (2006b). "Adaptive control of vowel formant frequency: Evidence from real-time formant manipulation", *J. Acoust. Soc. Am.* 120, 966-977 (purcell_munhall_jasa_120_2_2006.pdf)
- Villacorta, Virgilio M., Joseph S. Perkell, and Frank H. Guenther (2007). "Sensorimotor adaptation to feedback perturbations of vowel acoustics and its relation to perception", *J. Acoust. Soc. Am.* 122, 2306-2319 (villacortaetal_jasa_122_2_2007.pdf)

4.3 Unterdrückung oder Verlust der auditorischen Rückmeldung

- Jones, Jeffery A; Munhall, K G (2003). "Learning to produce speech with an altered vocal tract: the role of auditory feedback", *J. Acoust. Soc. America*, 113(1), 532-543 (JonesMunhall_JASA_113_1_2003.pdf)
- Perkell, Joseph S.; Guenther, Frank H.; Lane, Harlan; Matthies, Melanie L.; Perrier, Pascal; Vick, Jennell; Wilhelms-Tricarico, Reiner; Zandipour, Majid (2000). "A theory of speech motor control and supporting data from speakers with normal hearing and with profound hearing loss", *J. of Phonetics*, 28(3), 233-272 (perkelletal_jphon_28_2000.pdf)
- Guenther, F.H. (2003). "Neural control of speech movements". In: A. Meyer and N. Schiller (eds.), *Phonetics and Phonology in Language Comprehension and Production: Differences and Similarities*. Berlin: Mouton de Gruyter. (guenther_Schiller_Meyer_Book_Chapter.pdf)
- Guenther, F.H., and Perkell, J.S. (2004). "A neural model of speech production and its application to studies of the role of auditory feedback in speech". In: B. Maassen, R. Kent, H. Peters, P. Van Lieshout, and W. Hulstijn (eds.), *Speech Motor Control in Normal and Disordered Speech* (pp. 29-49). Oxford: Oxford University Press. (guenther_perkell_SMC_2001_Book_Chapter.pdf)

4.3(2)

- Garnier, M., Bailly, L., Dohen, M., Welby, P. & Loevenbruck, H. (2006). "The Lombard Effect: a physiological reflex or a controlled intelligibility enhancement?" *Proc. ISS7 Ubatuba*, 255-262. (garnieretal_issp7_2006.pdf)

4.3(3)

- Bergeson, T., Pisoni, D. & Davis, R. (2005). "Development of Audiovisual Comprehension Skills in Prelingually Deaf Children With Cochlear Implants", *Ear & Hearing* 26(2), 149-165. (bergesonetal_ear_hearing_26_2_2005.pdf)
- Liker, M., Mildner, V. & Branka, S. (2007). "Acoustic analysis of the speech of children with cochlear implants: A longitudinal study", *Clinical Linguistics & Phonetics*, 21(1), 1-11 (likeretal_clp_21_2007.pdf)

4.4 Delayed auditory feedback

- Lee, B. (1950). "Effects of delayed speech feedback". *JASA* 22(6), 824-826. (lee_daf_jasa_1950.pdf)
- MacKay, D. (1967). "Metamorphosis of a critical interval: Age-linked changes in the delay in auditory feedback that produces maximal disruption of speech". *JASA* 43(4), 811-821. (mackay_daf_jasa_1967.pdf)
- Zimmermann, G. et al. (1988). "The association between acoustic and articulatory events in a delayed auditory feedback paradigm". *J. Phonetics*, 16, 437-451.
- Stuart, A. et al. (2002). "Effect of delayed auditory feedback on normal speakers at two speech rates". *JASA* 111(5), 2237-2241. (stuartetal_daf_jasa_111_5_2002.pdf)

5. Kompensatorische Artikulation unter natürlichen Bedingungen

- Edwards, J. (1985). "Contextual effects on lingual-mandibular coordination", *J. Acoust. Soc. Am.* 78, 1944-1948. (edwards_jasa_78_6_1985.pdf)

Maeda, S. (1991). "On articulatory and acoustic variabilities", J. Phonetics, 19, 321 - 333
Hughes, O. M., and Abbs, J. H. (1976). "Labial-mandibular coordination in the production of speech: Implications for the operation of motor equivalence", Phonetica 33, 199-221.
zum Begriff "motor equivalence" s.a Perkell et al., sowie Guenther et al. unter 4.3 oben

6. Verschiedenes

6(1)

Tremblay, Stéphanie; Shiller, Douglas M; Ostry, David J. (2003). "Somatosensory basis of speech production", Nature, Volume 423, Issue 6942, June 19, 2003, Pages 866-869
(tremblayetal_nature_and_comment.pdf)

Nasir, S. & Ostry, D. (2008). "Speech motor learning in profoundly deaf adults", Nature Neuroscience 11(10), 1217-1222 (nasirostry_natureneuro_motor_control_2193.pdf)

6(2)

Levelt, W., Richardson, G. & La Heij, W. (1985), "Pointing and voicing in deictic expressions", J. Memory and Language, 24, 133-164 (levelt_jml_24_1985.pdf)

Rochet-Capellan, A., Schwartz, J.-L., Laboissière, R. & Galván, A. (2006). "Finger-jaw coordination during a deictic gesture with CVCV utterances: the effect of stress position", Proc. ISS7 Ubatuba, 193-200. (rochetcapellan_issp7_2006.pdf)

B. PHONETISCHE FUNKTIONEN DES KEHLKOPFS

1. Kontrolle der Grundfrequenz

- Atkinson, J. (1978), "Correlation analysis of the physiological features controlling fundamental voice frequency", JASA 63, 211-222. (atkinson_jasa_63_1_1978.pdf)
- Ohala, H. "The production of tone", In: V. Fromkin (ed.), Tone, a linguistic survey
- Erickson, D., Honda, K., Hirai, H. & Beckman, M. (1995), "The production of low tones in English intonation", J. Phonetics, 23, 179-188. (erickson_jphon_23_1995.pdf)
- Hallé, P. A. (1994). "Evidence for tone-specific activity of the sternohyoid muscle in Modern Standard Chinese". Language and speech, 37, 103 - 125. (halle_langspeech_37_1994.pdf)

2. Interaktion zwischen Grundfrequenz, Stimmhaftigkeit und Konsonantenartikulation

- Hombert, J.-M. Consonant types, vowel quality, and tone. In V. Fromkin (ed.), Tone, a linguistic survey
- Löfqvist, A., Baer, T., McGarr, N. & Story, R.S. (1989), "The cricothyroid muscle in voicing control", JASA 85, 1314-1321. (lofqvistetal_1989_jasa_85_3.pdf)
- Whalen, D. H., Abramson, A. S., Lisker, L. & Mody, M. (1993). "F0 gives voicing information even with unambiguous voice onset times". J. Acoust. Soc. Am., 93, 2152-2160. (whalenetal_jasa_93_4_1993.pdf)
- Westbury, J. R. (1983). Enlargement of the supraglottal cavity and its relation to stop consonant voicing. J. Acoust. Soc. Am. 73, 1322-1336. (westbury_jasa_73_4_1983.pdf)
- Svirsky, M A; Stevens, K N; Matthies, M L; Manzella, J; Perkell, J S; Wilhelms-Tricarico, R (1997). Tongue surface displacement during bilabial stops, J. Acoust. Soc. America, 102(1), 562-571 (svirskyetal_jasa_102_1_1997.pdf)

3. Sprachliche Funktionen der Stimmqualität

- Blankenship, B. (2002), "The timing of nonmodal phonation in vowels", J. Phonetics, 30, 163-191. (blankenship_jphon_30_2002.pdf)
- Gordon, P. & Ladefoged, P. (2001), "Phonation types: a cross-linguistic overview", J. Phonetics, 29, 383-406. (gordonladefoged_jphon_29_2001.pdf)

4. Konsonantenartikulation in ausgewählten Sprachen

Korean

- Cho, T., Jun, S.-A. & Ladefoged, P. (2002), "Acoustic and aerodynamic correlates of Korean stops and fricatives", J. Phonetics, 30, 193-228. (choetal_jphon_2002.pdf)
- Kim, C.-W. (1970). "A theory of aspiration", Phonetica 21, 107-116.
- Dart, S. (1987). "An aerodynamic study of Korean stop consonants: Measurements and modeling", JASA 81(1), 138-147. (dart_jasa_81_1_1987.pdf)

Hindi

- Benguerel, A.-P. & Bhatia, T.K.(1980) "Hindi stop consonants: an acoustic and fiberoptic study", Phonetica 37, 134-148.
- Dixit, R.P. & MacNeilage, P.F.(1980) "Cricothyroid activity and control of voicing in Hindi stops and affricates". Phonetica 37, 397-406.
- Dixit, R.P.(1989) "Glottal gestures in Hindi plosives", J. of Phonetics 17, 213-237.
- Schiefer, L.(1986) "F0 in the Production and Perception of Breathy Stops: Evidence from Hindi", Phonetica 43:43-69.

5. Ejektive und Implosive

- Ladefoged & Maddieson (1996), "Sounds of the world's languages"

- Laver, J. "Principles of Phonetics".
- Kingston, J. (1985) Unpublished dissertation
- Lindau, M. (1984). "Phonetic differences in glottalic consonants", *Phonetica* 12, 147-155.
- Wright, R., S. Hargus & K. Davis. 2002. "On the categorization of ejectives: Data from Witsuwit'en". *J. Int. Phon. Assoc.* 32, 43-77.

6. VOT, Aspiration

- Cho, T. & Ladefoged, P. (1999), "Variation and universals in VOT: evidence from 18 languages, *J. Phonetics*, 27, 207-229. (choladefoged_jphon_27_1999.pdf)
- Lisker, L. & Abramson, A. (1964), "A cross-language study of voicing in initial stops: acoustical measurements", *Word*, 20, 384-422. (liskerabramson_word.pdf)
- s.a Kim (1970) (s.o "Korean")

7. Laryngeale-orale Koordination

- Yoshioka, H., Löfqvist, A. & Hirose, H. (1981), "Laryngeal adjustments in the production of consonant clusters and geminates in American English", *JASA*, 70(6), 1615-1623 (yoshiokaetal_jasa_70_6_1981.pdf)
- Löfqvist, A. & Yoshioka, H. (1980), "Laryngeal activity in Swedish obstruent clusters", *JASA*, 68(3), 792-801. (lofqvistyoshioka_jasa_68_3_1980.pdf)
- Ridouane, R., Fuchs, S. & Hoole, P. (2006). "Laryngeal adjustments in the production of voiceless obstruent clusters in Berber", in J. Harrington & M. Tabain (eds.), "Speech Production: Models, Phonetic Processes, and Techniques", Psychology Press: New York, pp. 275-297. (ridouane_et_al_sps_finalfinal.pdf)
- Ridouane, R., Hoole, P. & Fuchs, S. (2007). "Laryngeal Behavior in Voiceless Words and Sentences: a Photoelectroglottographic Study". In: J. Trouvain & W. Barry (eds.), *Proceedings of the 16th International Congress of Phonetic Sciences [ICPhS XVI]*, Saarbrücken, Germany, August 2007. pp. 2049-2052. (ridouaneetal_icphs2007_1688.pdf)
- Hoole, P. (1999e). "*Laryngeal Coarticulation. Section A: Coarticulatory investigations of the devoicing gesture*". In: W.H Hardcastle and N. Hewlett (eds.), *Coarticulation: Theory, Data and Techniques*, pp. 105-121. Cambridge University Press. (laryco_fipkm.pdf)

8. Tonsprachen

- Abramson, A., & Luangthongkum, T. (in press), "A fuzzy boundary between tone languages and voice-register languages", In: G. Fant, H. Fujisaki, J. Shen (eds), *Festschrift for Wu Zongji*, Commercial Press, Beijing. (Abramson_wu_festschrift.pdf)
- Mazaudon, M. & Michaud, A. (2008). "Tonal Contrasts and Initial Consonants: A Case Study of Tamang, a Missing Link in Tonogenesis", *Phonetica*, 65, 231-256. (mazaudonmichaud_phonetica_65_2008.pdf)

9. Aryepiglottische Konstriktion

- Esling, J. (1996). "Pharyngeal consonants and the aryepiglottic sphincter", *J. International Phonetic Association* 26, 65–88. (esling_jipa_26_1996.pdf)
- Esling, J. (1999). "The IPA categories 'pharyngeal' and 'epiglottal': Laryngoscopic observations of pharyngeal articulations and larynx height", *Language & Speech* 42, 349–372. (esling_langspeech_42_1999.pdf)
- Esling, J. (2005). "There Are No Back Vowels: The Laryngeal Articulator Model", *Canadian Journal of Linguistics/Revue canadienne de linguistique* 50(1/2/3/4): 13–44, (Esling-CJL50-2005.pdf)