

SST2016 Tutorial Day

Female Orphan School, Western Sydney University, Parramatta South Campus

Tuesday 6 December 2016

9:00-9:30	Tutorial Day Registration	
9:30-12:30	Conference room 1, EZ.G.23	Conference room 3, EZ.G.36
	An introduction to Generalized Additive Mixed Models <i>Professor Harald Baayen, University of Tübingen</i> (full day tutorial)	Language and cognitive development in bilingual infants <i>Associate Professor Leher Singh, National University of Singapore</i> (half day tutorial)
12:30-1:30	Lunch	
1:30-4:30	Conference room 1, EZ.G.23	Conference room 3, EZ.G.36
	An introduction to Generalized Additive Mixed Models <i>Professor Harald Baayen, University of Tübingen</i> (full day tutorial)	Investigating speech production using the X-ray microbeam database <i>Dr Michael Proctor, Macquarie University</i> (half day tutorial)
5:30 onwards	Student and Early Career Researcher Drinks <i>The Commercial Hotel, Parramatta</i>	

SST2016 Conference
Novotel Sydney Parramatta

Wednesday 7 December 2016

8:00-9:00	Atrium	
	Conference Registration	
9:00-9:30	Lennox 1	
	Welcome to Country	
9:30-10:30	Lennox 1	
	Keynote Address	
	Professor Shrikanth Narayanan <i>University of Southern California</i>	
	Deriving behavioral informatics from speech and language	
10:30-11:00	Atrium	
	Morning Tea Break	
	Oral Sessions 11:00-12:15	
	Linden	Lennox 1
	L1 ACQUISITION Chair: Titia Benders	SPEECH PROSODY Chair: Sasha Calhoun
11:00-11:25	Fundamental frequency characteristics of infant vocalisations: A study in voice quality <i>Adele Gregory and Marija Tabain</i>	Perception of statement and question intonation: Cantonese versus Mandarin <i>Una Chow and Stephen Winters</i>
11:25-11:50	3-year-olds produce pitch contours consistent with Mandarin tone 3 sandhi <i>Nan Xu Rattanasone, Ping Tang, Ivan Yuen, Liqun Gao and Katherine Demuth</i>	Prosodic characteristics of Japanese polite speech spoken by native and non-native speakers <i>Chiharu Tsurutani, Shuju Shi and Nobuaki Minematsu</i>
11:50-12:15	The role of positive affect in the acquisition of word-object associations <i>Nicole Traynor, Karen Mulak, Rachel Robbins, Gabrielle Weidemann and Paola Escudero</i>	Accentual lengthening in 5-year-old AusE-speaking children: Preliminary results <i>Ivan Yuen, Nan Xu Rattanasone, Elaine Schmidt, Gretel Macdonald, Rebecca Holt and Katherine Demuth</i>
12:15-1:05	Atrium	
	Lunch	

Wednesday 7 December 2016 (continued)

Oral Sessions 1:05-2:20	
Linden	Lennox 1
1:05-1:30	<p style="text-align: center;">AUSTRALASIAN LANGUAGES Chair: Rikke Bundgaard-Nielsen</p> <p>A comparative ultrasound study of manner contrasts in Arrernte and Kannada: Manner contrasts <i>Marija Tabain, Alexei Kochetov, Richard Beare and Narayan Sreedevi</i></p>
1:30-1:55	<p style="text-align: center;">L2 ACQUISITION Chair: Karen Mulak</p> <p>Tailoring phonetic learning to the needs of individuals on the basis of language aptitude <i>Mark Antoniou and Melissa Blair</i></p>
1:55-2:20	<p>Verbal reduplication and minimal words in Kaytetye <i>Forrest Panther, Mark Harvey, Harold Koch, Myfany Turpin and Michael Proctor</i></p> <p>L2 phonological category formation and discrimination in learners varying in L2 experience <i>Mona Faris, Catherine Best and Michael Tyler</i></p>
2:20-2:40	<p>Short vowels in L1 Aboriginal English spoken in South-Western Victoria <i>Deborah Loakes, Janet Fletcher, John Hajek, Joshua Clothier and Ben Volchok</i></p> <p>The effects of training order and intensity on the perception and production of English /e/-/ae/ by Cantonese ESL learners <i>Janice Wing Sze Wong</i></p>
Atrium	
Afternoon Tea Break	
Oral Sessions 2:40-3:55	
Linden	Lennox 1
2:40-3:05	<p style="text-align: center;">APPLICATIONS OF SPEECH SCIENCE AND TECHNOLOGY Chair: Adam Vogel</p> <p>The Australian SpIN™ speech in noise test <i>Peter Blamey, Maryam Zargarbashi, Jeremy Blamey and Elaine Saunders</i></p>
3:05-3:30	<p style="text-align: center;">SOCIOPHONETICS Chair: Debbie Loakes</p> <p>Similarity in global accent promotes generalised learning of specific-accent markers <i>Ann-Kathrin Grohe, Margarita Downing and Andrea Weber</i></p>
3:30-3:55	<p>Using optical flow and electromagnetic articulography in multimodal speech research <i>Samantha Gordon Danner, Louis Goldstein, Eric Vatikiotis-Bateson, Robert Fuhrman and Adriano Barbosa</i></p> <p>Patterns of gender variation in the speech of primary school-aged children in Australian English: The case of /p t k/ <i>Casey Tait and Marija Tabain</i></p>
4:00-4:15	<p>Acoustic monitoring of speech impairment in motor neuron disease associated with frontotemporal dementia: A case series <i>Matthew Poole, Amy Brodtmann, David Darby and Adam Vogel</i></p> <p>Change in Māori focus/topic ko: The impact of language contact on prosody <i>Sasha Calhoun, Naoko Yui and Karena Kelly</i></p>
Lennox 1	
Official Conference Opening <i>Jonathan Tapson, Director of the MARCS Institute for Brain, Behaviour and Development</i>	
Special plenary session to celebrate the 30th anniversary of the SST conference series	
Atrium	
Welcome reception with canapés and drinks	

Thursday 8 December 2016

Lennox 1			
Keynote Address			
9:00-10:00	Associate Professor Leher Singh <i>National University of Singapore</i> The development of a phonological lexicon: A focus on lexical tones and bilingual children		
Atrium			
Morning Tea Break			
Oral Sessions 10:30-12:10			
	Lennox 1	Lennox 2	Lennox 3
	SPEECH PERCEPTION I Chair: Heather Kember	SPECIAL SESSION: EFFECTS OF EARLY LANGUAGE ENVIRONMENT AND LINGUISTIC INPUT ON THE DEVELOPMENT OF SPEECH PERCEPTION SKILLS IN THE FIRST YEARS OF LIFE Chair: Marina Kalashnikova	ARTICULATORY PHONETICS Chair: Donald Derrick
10:30-10:55	Disambiguation of Australian English vowels <i>Tunde Szalay, Titia Benders, Felicity Cox and Michael Proctor</i>	Does a vowel by any other accent sound the same ... to toddler ears? <i>Catherine Best, Christine Kitamura, Sophie Gates, and Angela Carpenter</i>	Exploring articulatory characteristics of linking /ɹ/ in British English <i>Mitsuhiro Nakamura</i>
10:55-11:20	Regional priming in Australian English kit, dress and trap vowels <i>Michael Walker, Anita Szakay and Felicity Cox</i>	Measuring sensitivity to phonological detail in monolingual and bilingual infants using pupillometry <i>Katalin Tamási, Thilanga Wewalaarachchi, Barbara Höhle and Leher Singh</i>	Tongue positions corresponding to formant values in Australian English vowels <i>Arwen Blackwood Ximenes, Jason Shaw and Christopher Carignan</i>
11:20-11:45	The relative contributions of duration and amplitude to the perception of Japanese- accented English as a function of L2 experience <i>Saya Kawase, Jeusun Kim and Chris Davis</i>	Sensitivity to vowel, consonant and tone variation in early childhood <i>Thilanga D. Wewalaarachchi and Leher Singh</i>	Nasal aerodynamics and coarticulation in Bininj Kunwok: Smoothing spline analysis of variance <i>Hywel Stoakes, Janet Fletcher and Andrew Butcher</i>
11:45-12:10	The role of closure duration in the perception of word- initial geminates in Kelantan Malay <i>Mohd Hilmi Hamzah, Janet Fletcher and John Hajek</i>	The effects of allomorphic variation on children's acquisition of plural morphology <i>Benjamin Davies, Nan Xu Rattanasone and Katherine Demuth</i>	Preliminary investigations into the Australian English articulatory vowel space <i>Louise Ratko, Michael Proctor, Felicity Cox and Sean Veld</i>

Thursday 8 December 2016 (continued)

12:10-1:10	Atrium	Lennox 1	
	Lunch	ASSTA Annual General Meeting	
1:10-1:35	Oral Sessions 1:10-2:25		
	Lennox 1	Lennox 2	Lennox 3
	BILINGUALISM Chair: Mark Antoniou	FORENSIC SPEECH SCIENCE I Chair: Eugenia San Segundo Fernandez	SPEECH REGISTERS Chair: Denis Burnham
	The early bilingual influence on speech and music processing <i>Liquan Liu</i>	Preliminary performance comparison between PCAKLR and GMM-UBM for computing the strength of speech evidence in forensic voice comparison <i>Hanie Mehdinezhad and Bernard Guillemin</i>	Free labeling of audio-visual attitudinal expressions in German <i>Hansjörg Mixdorff, Angelika Hönemann and Albert Rilliard</i>
	Monolingual and bilingual adults can successfully learn foreign language words implicitly <i>Hana Zjakic, Alba Tuninetti and Paola Escudero</i>	Impact of various GSM network factors on forensic voice comparison <i>Balamurali Nair, Esam Alzqhoul and Bernard Guillemin</i>	An analysis of Lombard Effect on Thai lexical tones: The role of communicative aspect <i>Chariya Boontham, Chutamane Onsuwan, Tanawan Saimai and Charturong Tantibundhit</i>
2:00-2:25	The bilingual advantage in the language processing domain: Evidence from the Verbal Fluency Task <i>Gloria Pino Escobar, Marina Kalashnikova and Paola Escudero</i>	Adapted Gaussian Mixture Model in likelihood ratio based forensic voice comparison using long term fundamental frequency <i>Carolyn Elisabeth Buncle Diesner and Shunichi Ishihara</i>	Whispered and Lombard speech: Different ways to exaggerate articulation <i>Chris Davis and Jeesun Kim</i>
2:25-2:50	Atrium Afternoon Tea Break		

Thursday 8 December 2016 (continued)

Oral Sessions 2:50-4:05			
	Lennox 1	Lennox 2	Lennox 3
	SPEECH PERCEPTION II Chair: Laurence Bruggeman	SPEECH ENHANCEMENT Chair: Julien Epps	PITCH ACCENT Chair: Chiharu Tsurutani
2:50-3:15	Revisiting the interlanguage speech intelligibility benefit <i>Chang Shu, Ian Wilson and Jeremy Perkins</i>	Comparison of speech enhancement algorithms for forensic applications <i>Ahmed Hasan, David Dean, Bouchra Senadji and Vinod Chandran</i>	Searching for importance: Focus facilitates memory for words in English <i>Heather Kember, Jiyoun Choi and Jenny Yu</i>
3:15-3:40	Speech normalization across speaker, sex and accent variation is handled similarly by listeners of different language backgrounds <i>Gloria Pino Escobar, Josephine Terry, Buddhama Pralle Kriengwatana and Paola Escudero</i>	A Kalman filtering algorithm with joint metrics-based tuning for single-channel speech enhancement <i>Aidan George, Stephen So, Ratna Ghosh and Kuldip Paliwal</i>	Pitch accent type affects lexical activation in German: Evidence from eye tracking <i>Katharina Zahner, Muna Schönhuber, Janet Grijzenhout and Bettina Braun</i>
3:40-4:05	Cross-accent word recognition is affected by perceptual assimilation <i>Sarah Wright, Mark Lathouwers, Catherine Best and Michael Tyler</i>	A comparison of estimation methods in the discrete cosine transform modulation domain for speech enhancement <i>Aidan George, Christine Pickersgill, Belinda Schwerin and Stephen So</i>	Evidence and intonational contours: An experimental approach to meaning in intonation <i>Byron Ahn, Stefanie Shattuck-Hufnagel and Nanette Veilleux</i>
4:05-4:30	Atrium		
	Late Afternoon Tea Break		
Oral Sessions 4:30-5:45			
	Lennox 1	Lennox 2	Lennox 3
	MORPHOPHONOLOGY Chair: Mark Harvey	SPEECH SYNTHESIS Chair: Frantz Clermont	LEXICAL TONE Chair: Ivan Yuen
4:30-4:55	"She has many... cat?": On-line processing of L2 morphophonology by Mandarin learners of English <i>Valeria Peretokina, Catherine Best, Michael Tyler and Bruno Di Biase</i>	A noise-robust linear prediction analysis for efficient speech coding <i>Aadel Alatwi, Stephen So and Kuldip Paliwal</i>	Normalization of Zhangzhou citation tones <i>Yishan Huang, Mark Donohue, Phil Rose and Paul Sidwell</i>
4:55-5:20	Pause acceptability is predicted by morphological transparency in Wubuy <i>Brett Baker and Rikke Bundgaard-Nielsen</i>	Synthesizing attitudes in German <i>Angelika Hönemann and Petra Wagner</i>	Comparing normalisation strategies for citation tone F0 in four Chinese dialects <i>Philip Rose</i>
5:20-5:45	Morphological status and acoustic realization: Findings from New Zealand English <i>Julia Zimmermann</i>	Exploring text to speech synthesis in non-standard languages <i>Jesin James, Catherine Watson and Deepa Gopinath</i>	Perception of tonal contrasts: High-variability perceptual training with iconic visual information <i>Yan Chen</i>
6:10	Buses departing for conference dinner		
6:30-10:30	Conference Dinner <i>Lachlan's Old Government House</i>		

Friday 9 December 2016

Friday 9 December 2016					
9:00-10:00	Lennox 1				
	Keynote Address Professor Harald Baayen <i>University of Tübingen</i> Modeling human speech processing without phonemes				
10:00-11:15	Maddison and the Atrium				
	Morning Tea Poster Session				
11:15-12:55	Oral Sessions 11:15-12:55				
	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center; width: 50%;">Lennox 1</td> <td style="text-align: center; width: 50%;">Lennox 2/3</td> </tr> <tr> <td style="text-align: center;"> INFANT-DIRECTED SPEECH Chair: Nan Xu Rattanasone </td> <td style="text-align: center;"> AUTOMATIC SPEECH RECOGNITION Chair: Catherine Watson </td> </tr> </table>	Lennox 1	Lennox 2/3	INFANT-DIRECTED SPEECH Chair: Nan Xu Rattanasone	AUTOMATIC SPEECH RECOGNITION Chair: Catherine Watson
	Lennox 1	Lennox 2/3			
	INFANT-DIRECTED SPEECH Chair: Nan Xu Rattanasone	AUTOMATIC SPEECH RECOGNITION Chair: Catherine Watson			
	Exploring the association of infant temperament on maternal fundamental frequency contours <i>Alix Woolard, Titia Benders, Linda Campbell, Frini Karayanidis, Joerg Mattes, Vanessa Murphy, Olivia Whalen and Alison Lane</i>				
	Emotion-related explanations of the vowel variability in infant-directed speech <i>Titia Benders</i>	Noise-robust linear prediction cepstral features for network speech recognition <i>Aadel Alatwi, Stephen So and Kuldip Paliwal</i>			
	Bridging processing and learning: The role of affect processing on infant word learning <i>Jessica Bazouni, Liqun Liu, Gabrielle Weidemann and Paola Escudero</i>	Formant dynamics and durations of um improve the performance of automatic speaker recognition systems <i>Vincent Hughes, Paul Foulkes and Sophie Wood</i>			
Exploring quantitative differences in mothers' and fathers' infant-directed speech to Australian 6-month-olds <i>Christa Lam-Cassettari and Paige Noble</i>	Eigenfeatures: An alternative to Shifted Delta Coefficients for language identification <i>Sarith Fernando, Vidhyasaharan Sethu and Eliathamby Ambikairajah</i>				
12:55-1:45	Atrium Lunch				

**Friday 9 December 2016
(continued)**

Oral Sessions 1:45-3:25		
	Lennox 1	Lennox 2/3
	ACOUSTIC PHONETICS Chair: Hywel Stoakes	SPEECH EMOTION RECOGNITION Chair: Vincent Hughes
1:45-2:10	Secondary tongue retraction in Arabic emphatics: An acoustic study <i>Hamed Altairi, Catherine Watson and Jason Brown</i>	Lacking vision: Insights into the automatic classification of emotion in AMC's the walking dead <i>Joanne Quinn</i>
2:10-2:35	Sound change or experimental artifact? A study on the impact of data preparation on measuring sound change <i>Catherine Watson and Zoe Evans</i>	Depression prediction via acoustic analysis of formulaic word fillers <i>Brian Stasak, Julien Epps and Nicholas Cummins</i>
2:35-3:00	Temporal correlates of Lopit singleton and geminate glides <i>Rosey Billington</i>	Time to embrace emotion change: Selecting emotionally salient segments for speech-based emotion prediction <i>Zhaocheng Huang and Julien Epps</i>
3:00-3:25	Child Kriol has stop distinctions based on VOT and constriction duration <i>Rikke Bundgaard-Nielsen, Brett Baker and Elise Bell</i>	Continuous spoken emotion recognition based on time-frequency features of the glottal pulse signal within stressed vowels <i>Li Tian and Catherine Watson</i>
3.25-3:45	Atrium	
	Afternoon Tea Break	
Oral Sessions 3:45-5:00		
	Lennox 1	Lennox 2/3
	CROSS-LANGUAGE VOWEL PERCEPTION Chair: Kimiko Tsukada	FORENSIC SPEECH SCIENCE II Chair: Bernard Guillemin
3:45-4:10	Can Australian English listeners learn non-native vowels via distributional learning? <i>Jia Hoong Ong, Josephine Terry and Paola Escudero</i>	The effect of sampling procedures on the performance of likelihood ratio based forensic voice comparison: F0 distributional parameters <i>Shunichi Ishihara</i>
4:10-4:35	The relationship between Australian English speakers' non-native perception and production of Brazilian Portuguese vowels <i>Jaydene Elvin, Paola Escudero, Daniel Williams and Catherine Best</i>	Exploring forensic accent recognition using the Y-ACCDIST system <i>Georgina Brown</i>
4:35-5:00	Lebanese Arabic listeners find Australian English vowels easy to discriminate <i>Ronda Aboultaif, Jaydene Elvin, Daniel Williams and Paola Escudero</i>	Holistic perception of voice quality matters more than L1 when judging speaker similarity in short stimuli <i>Eugenia San Segundo, Paul Foulkes and Vincent Hughes</i>

SST2016 Poster Presentations

Friday 9 December, 10:00-11:15, Maddison and the Atrium

1. *Characterisation of speech diversity using self-organising maps*
Tom Anderson and David Powers
2. *Visualisation tools to analyse phonetic confusions for speech perception tests*
Chung Ting Justine Hui, Catherine Watson and Takayuki Arai
3. *Māori language proficiency effects on listener response to a prosodic prominence perception task*
Laura Thompson, Catherine Watson and Helen Charters
4. *Acoustic correlates of primary stress in Djambarrpuyŋu*
Kathleen Jepson, Janet Fletcher and Hywel Stoakes
5. *Lexical manipulation as a discovery tool for psycholinguistic research*
Laurence Bruggeman and Anne Cutler
6. *Native and non-native English speakers' use of prosody to predict sentence endings*
Janeen Jeske, Heather Kember, and Anne Cutler
7. *Amplitude and // vocalisation: Insights from individual variation*
Joshua Clothier and Deborah Loakes
8. *Acoustic analysis of Mandarin neutral tone and tone sandhi productions in infant-directed speech*
Ping Tang, Nan Xu Rattanasone, Ivan Yuen and Katherine Demuth
9. *Probing listeners' knowledge of singular and plural using novel words*
Benjamin Davies, Nan Xu Rattanasone and Katherine Demuth
10. *Effects of perceptual salience on early-bilingual children's processing of morphosyntactic*
Sithembinkosi Dube, Carmen Kung and Katherine Demuth
11. *Effects of speech airflow on 2FC word identification in Mandarin and English*
Donald Derrick, Gregory O'Beirne, Tom De Rybel, Romain Fiasson and Jennifer Hay
12. *Sociophonetic variability in the realization of /t/ in West Australian English*
Gerard Docherty, Simón Gonzalez, Nathaniel Mitchell and Paul Foulkes
13. *Socioeconomic differences in infants' language experience*
Anne Dwyer, Caroline Jones, Christine Kitamura, Chris Davis and Teresa Ching

14. *The relationship between L2 speech perception and L2 word learning*
Samra Alispahic, Karen Mulak and Paola Escudero
15. *Simultaneous and late sequential bilinguals' cross-situational learning of minimal pair words*
Paola Escudero, Karen Mulak, Charlene Fu and Leher Singh
16. *The development of cross-accent word identification in monolingual and bilingual infants*
Karen Mulak and Paola Escudero
17. *Japanese vowel deletion occurs in words in citation form*
Alexander Kilpatrick, Rikke Bundgaard-Nielsen, and Brett Baker
18. *Tonal experiences influence correlations of perception and production*
Mengyue Wu, Brett Baker and Rikke Bundgaard-Nielsen
19. *The role of nuclear stress in intelligibility: The case of Cantonese speakers of English*
Simon Ka Ngai Leung and Janice Wing Sze Wong
20. *An acoustic examination of New Caledonian French nasal vowels*
Eleanor Lewis
21. *Towards a better understanding of regional variation in Standard Australian English: Analysis*
Rael Stanley
22. *Speaking aloud improves recall for words with familiar and unfamiliar accents*
Ann-Kathrin Grohe and Andrea Weber
23. *Neural responses to morphosyntactic violations in foreign-accented speech*
Rebecca Holt, Carmen Kung, Elaine Schmidt and Katherine Demuth
24. *Voicing contrasts in Nepali infant-directed speech*
Sujal Pokharel, Titia Benders and Katherine Demuth
25. *The effect of vowel duration on native Mandarin listeners' perception of Australian English vowel*
Shuting Liu, Titia Benders and Felicity Cox
26. *Glottalisation and coda stop voicing in Australian English*
Joshua Penney, Felicity Cox, Sallyanne Palethorpe and Kelly Miles
27. *Changes in polysyllable speech accuracy of children with speech sound disorders*
Sarah Masso, Sharynne McLeod, Elise Baker, Jane McCormack and Cen Wang
28. *Production of epenthetic vowels in unfamiliar clusters in Japanese*
Wakayo Mattingley, Elizabeth Hume and Kathleen Currie Hall

29. *Effect of clinical depression on automatic speaker verification*
Sheeraz Memon, Mukhtiar Ali Unar and Bhawani Shakar Chowdhry
30. *Acoustic measurement of speech production for diagnosis of primary progressive aphasia and*
Matthew Poole, Amy Brodtmann, David Darby and Adam Vogel
31. *A model of pitch perception for normal hearing and cochlear implants*
Nafise Erfanian Saeedi, Peter Blamey, Anthony Burkitt and David Grayden
32. *Talking to tiny babies: A comparison of infant-directed speech to premature and full-term infants*
Karen Mattock and Elizabeth Byron
33. *Using version control to facilitate a reproducible and collaborative workflow in acoustic phonetics*
Nay San
34. *Preservation of tone in right-dominant tone sandhi: A fragment of disyllabic tone sandhi in*
Ruiqing Shen and Phil Rose
35. *The perception of Mandarin lexical tones by native Korean listeners differing in their experience*
Kimiko Tsukada, Jeong-Im Han and Byunggon Yang
36. *Durational and spectral differences in Thai diphthongs and final glides*
Phongphat Man-khongdi, Chutamanee Onsuwan and Charturong Tantibundhit
37. *Comparison of filled pause durations and frequencies in parallel corpus of English and Japanese*
Michiko Watanabe and Shohei Toyama
38. *Karen L1-speakers' pronunciation in L2s - a question about intelligibility*
Elisabeth Zetterholm
39. *Background specificity in forensic voice comparison and its relation to the Bayesian prior*
Michael Wagner and Yuko Kinoshita
40. *Sub-band cepstral variability within and between speakers under microphone and mobile*
Frantz Clermont, Yuko Kinoshita and Takashi Osanai