

## 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 <b>Professor Shrikanth Narayanan</b> <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
<p align="center"><b>AUSTRALASIAN LANGUAGES</b> Chair: Rikke Bundgaard-Nielsen</p>	<p align="center"><b>L2 ACQUISITION</b> Chair: Karen Mulak</p>
<p>1:05-1:30 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>	<p>Tailoring phonetic learning to the needs of individuals on the basis of language aptitude <i>Mark Antoniou and Melissa Blair</i></p>
<p>1:30-1:55 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>
<p>1:55-2:20 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>
2:20-2:40	Atrium
Afternoon Tea Break	
Oral Sessions 2:40-3:55	
Linden	Lennox 1
<p align="center"><b>APPLICATIONS OF SPEECH SCIENCE AND TECHNOLOGY</b> Chair: Adam Vogel</p>	<p align="center"><b>SOCIOPHONETICS</b> Chair: Debbie Loakes</p>
<p>2:40-3:05 The Australian SpIN™ speech in noise test <i>Peter Blamey, Maryam Zargarbashi, Jeremy Blamey and Elaine Saunders</i></p>	<p>Similarity in global accent promotes generalized learning of accent markers <i>Ann-Kathrin Grohe, Margarita Downing and Andrea Weber</i></p>
<p>3:05-3:30 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>
<p>3:30-3:55 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 <i>ko</i>: The impact of language contact on prosody <i>Sasha Calhoun, Naoko Yui and Karena Kelly</i></p>
4:00-4:15	Lennox 1
<p>Official Conference Opening <i>Jonathan Tapson, Director of the MARCS Institute for Brain, Behaviour and Development</i></p>	
4:15-5:30	<p>Special plenary session to celebrate the 30th anniversary of the SST conference series</p>
5:30-7:30	Atrium
<p>Welcome reception with canapés and drinks</p>	

**Thursday 8 December 2016**

<b>Lennox 1</b>			
Keynote Address			
9:00-10:00	<b>Associate Professor Leher Singh</b> <i>National University of Singapore</i> The development of a phonological lexicon: A focus on lexical tones and bilingual children		
<b>Atrium</b>			
Morning Tea Break			
Oral Sessions 10:30-12:10			
	<b>Lennox 1</b>	<b>Lennox 2</b>	<b>Lennox 3</b>
	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
	<b>BILINGUALISM</b> Chair: Mark Antoniou	<b>FORENSIC SPEECH SCIENCE I</b> Chair: Eugenia San Segundo Fernandez	<b>SPEECH REGISTERS</b> 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 Zjadic, 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>
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
	<b>SPEECH PERCEPTION II</b> Chair: Laurence Bruggeman	<b>SPEECH ENHANCEMENT</b> Chair: Julien Epps	<b>PITCH ACCENT</b> 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
	<b>MORPHOPHONOLOGY</b> Chair: Mark Harvey	<b>SPEECH SYNTHESIS</b> Chair: Frantz Clermont	<b>LEXICAL TONE</b> 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**

<b>Lennox 1</b>									
9:00-10:00	Keynote Address <b>Professor Harald Baayen</b> <i>University of Tübingen</i> Modeling human speech processing without phonemes								
<b>Maddison and the Atrium</b>									
10:00-11:15	Morning Tea Poster Session								
<b>Oral Sessions 11:15-12:55</b>									
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11:40-12:05									
12:05-12:30									
12:30-12:55									
12:55-1:45	<b>Atrium</b> Lunch								

**Friday 9 December 2016  
(continued)**

Oral Sessions 1:45-3:25		
	Lennox 1	Lennox 2/3
	<b>ACOUSTIC PHONETICS</b> Chair: Hywel Stoakes	<b>SPEECH EMOTION RECOGNITION</b> 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
	<b>CROSS-LANGUAGE VOWEL PERCEPTION</b> Chair: Kimiko Tsukada	<b>FORENSIC SPEECH SCIENCE II</b> 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