

Welcome to Delegates

Nau mai, haere mai, tauti mai ki Ōtautahi i Te Waipounamu mō tēnei hui e pā ana ki ngā āhuatanga o te reo. Tēnā koutou katoa.

A warm welcome to the 15th Australasian International Conference on Speech Science and Technology (SST 2014), in Christchurch, New Zealand.

SST held its first meeting in Canberra in 1986. Since then, the conference has remained the most important regular conference on speech science and technology held in the Southern Hemisphere. It has always been an outstanding forum for debate, discussion, sharing of results and ideas, nurturing young scholars, and networking. The New Zealand Institute of Language, Brain and Behaviour is very proud to uphold this fine tradition by hosting the event in Christchurch this year. I would like to thank all of the authors who have contributed to a simply outstanding programme of talks and posters.

I would also like to gratefully acknowledge the support of our sponsors: Tobii, Neurospec, NDI and GE Healthcare Ltd; and to thank the ASSTA committee, the many reviewers and the SST 2014 Organising Committee for their significant contributions to the organisation of this event. Enormous thanks are also due to our unparalleled conference organiser and coordinator - NZILBB Manager, Emma Parnell.

I trust that you will all enjoy the conference, and hope that you will also find some time to relax, and to explore Christchurch and its surroundings.

Conference Chair



Jen Hay
University of Canterbury

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Invited Workshop Speakers

Donald Derrick (University of Canterbury & University of Western Sydney)

Ultrasound for speech

2nd December 2014, 9:30-12:30

Donald Derrick is a joint Post-Doctoral Fellow at the New Zealand Institute of Language Brain and Behaviour, University of Canterbury and the MARCS Institute at the University of Western Sydney. He studies speech production and perception in order to identify the phonetic constraints on low-level speech production, and the low-level percepts that can enhance or interfere with speech perception. Donald's research has implications for speech planning, constraints on speech production, and multi-modal speech perception, including the possibility of enhancing speech perception among the hard-of-hearing.

T. Florian Jaeger (University of Rochester)

Regression and mixed effects models

2nd December 2014, 14:00-17:00

T. Florian Jaeger is an Assistant Professor at the Department of Brain and Cognitive Sciences and the Department of Computer Science at the University of Rochester. He is interested in to what extent the human language production and comprehension systems are organised to be efficient. He uses psycholinguistic experimentation and statistical modeling to investigate speakers' choice at various linguistic levels of online language production and the pressures driving these decisions. His research also asks what cues and what methods language users employ when estimating probabilities of words and structures.

Chigusa Kurumada (University of Rochester) and Meredith Brown (Tufts University)

Perception and interpretation of speech prosody

2nd December 2014, 9:30-12:30

Chigusa Kurumada is an Assistant Professor at the Department of Brain and Cognitive Sciences at the University of Rochester. She is interested in the way adults and children find coherent patterns in input signals and induce linguistic representations. Her recent work focuses on roles of the adaptive nature of the human cognitive system in language comprehension, investigating how it navigates variability in prosodic information and achieves robust pragmatic inferences. Bridging topics on child language acquisition and psycholinguistics, she explores the mechanism of language learning and use throughout the lifespan.

Invited Plenary Speakers

Gerry Docherty (Griffith University)

Stitching together the story on sociophonetic variation: Advances and challenges

3rd December 2014, 9:00-10:00

Gerry Docherty is Professor and Dean (Research) in the Arts, Education & Law academic group at Griffith University. A common strand through all Gerry's research work has been a focus on quantitative acoustic analysis of aspects of speech with a view to enhancing understanding of the nature of phonetic variability and its implications for phonetic theory. While much of his work has been focused on normal adult speakers, he has also investigated the acquisition of speech sound patterning in children and the nature of speech in populations of speakers with impaired speech

production. He is currently Chief Investigator on the ARC-funded Discovery Project entitled *The social dynamics of language: a study of phonological variation and change in West Australian English* (2013-2015). He is also currently working on a second ARC-funded Discovery Project entitled *You came TO DIE?! Perceptual adaptation to regional accents as a new lens on the puzzle of spoken word recognition* (2012-15).

Gail Gillon (University of Canterbury)

Phonological awareness development in children with speech sound disorder

4th December 2014, 13:30-14:30

Gail Gillon is a Professor at and Pro-Vice Chancellor of the College of Education at the University of Canterbury. She is also a member of the Ngāi Tahu Research Centre, the New Zealand Institute of Language, Brain and Behaviour and Co Director of the Language and Literacy Research Lab. Gail's research focuses on understanding the relationship between developmental spoken and written language disorders. Her active research includes: the prevention of reading disorder in children with speech and language impairment; phonological awareness intervention; the development of phonological representations in children with unintelligible speech; conversational and narrative language development in New Zealand children; childhood apraxia of speech; phonological awareness development in children with Down syndrome; speech and language development in young children with traumatic brain injury; and communication impairment in children who are bilingual.

T. Florian Jaeger (University of Rochester)

Speech perception and adaptation an inference under uncertainty

5th December 2014, 8:45-9:45

See Invited Workshop Speakers

Bastiaan Kleijn (Victoria University of Wellington)

A simple model of speech communication and its application to intelligibility enhancement

3rd December 2014, 13:00-14:00

Bastiaan Kleijn is a Professor at the School of Engineering and Computer Science at Victoria University of Wellington. Bastiaan is also a part-time Professor at Delft University of Technology. His research interest is to develop solutions based on signal processing, information theory, and machine learning for problems involving audio, video, and biomedicine. Examples of topics that he has worked on recently are: distributed processing, blind source separation, spatial audio, entropy estimation, robust source coding for packet networks, single and multi-channel speech enhancement, video enhancement, camera control for multiview video, auditory modeling, audio and video coding, model estimation, and algorithms that predict perceived signal quality.

Jane Stuart-Smith (Univeristy of Glasgow)

Twa son, some soldiers, and a city: An acoustic phonetic investigation of real-time change in Scottish English

4th December 2014, 8:45-9:45

Jane Stuart-Smith is a Professor in English Language and Director of the Glasgow University Laboratory of Phonetics. She is the author of a number of articles on variation and change in Glaswegian accent, the impact of the broadcast media on language variation and change, the sociophonetics of British Asian accents, the phonetics and phonology of British varieties of Panjabi, the acquisition of literacy in Panjabi/English bilingual children, historical linguistics and sound-change. Jane is currently running two projects, one looking at how Glaswegian accent has changed since the 1970s, and the other to develop an online resource for teaching articulatory phonetics. She is also working with Jim Scobbie and Eleanor Lawson on a project to investigate further the transmission of articulatory variation, using Ultrasound Tongue Imaging to look particularly at derhoticization in Scottish English. She is also working to help Microphonics develop their innovative computer-literacy tool to help learners of English as a Second Language.

SST 2014 - Wednesday 3rd December		
8.45am	Welcome Savoy West	
9:00-10:00	Plenary: Gerry Docherty (Griffith University) <i>Stitching together the story on sociophonetic variation: Advances and challenges</i> Savoy West	
10:00-10:25	Morning Tea	
	SESSION A-Savoy West	SESSION B-Savoy 2
	FORENSICS 1	PANZE
10:25-10:50	<i>LR-based forensic voice comparison under severe test-data scarcity.</i> Yuko Kinoshita & Michael Wagner	<i>Phonologisation of vowel duration and nasalised /æ/ in Australian English.</i> Felicity Cox & Sallyanne Palethorpe
10:50-11:15	<i>Replicate mismatch between test and background/development databases: The effect on the performance of likelihood ratio-based forensic voice comparison.</i> Shunichi Ishihara	<i>Why the SQUARE vowel is the most variable in Sydney.</i> Nhung Nguyen & Jason Shaw
11:15-11:40	<i>Regional variation and the definition of the relevant population in likelihood ratio-based forensic voice comparison using cepstral coefficients.</i> Vincent Hughes & Paul Foulkes	<i>Identifying /eI/-/æI/: A comparison between two regional Australian towns.</i> Deborah Loakes, John Hajek, Joshua Clothier & Janet Fletcher
11:40-12:05	<i>Comparison between speech parameters for forensic voice comparison using mobile phone speech.</i> Esam Alzqhol, Balamurali B T Nair & Bernard Guillemin	<i>Comparing acoustic analyses of Australian English vowels from Sydney: Cox (2006) vs AusTalk.</i> Jaydene Elvin & Paola Escudero.
12:05-13:00	Lunch	
13:00-14:00	Plenary: Bastiaan Kleijn (Victoria University of Wellington) <i>A simple model of speech communication and its application to intelligibility enhancement</i> Savoy West	
	SESSION A-Savoy West	SESSION B-Savoy 2
	L2 ACQUISITION	AUSTALK
14:00-14:25	<i>Segmental and Tonal Errors in L2 Mandarin Speech Produced by Australian English Learners.</i> Wentao Gu, Ting Zhang & Chiharu Tsurutani	Alveo Workshop Denis Burnham & Steve Cassidy
14:25-14:50	<i>Does immersion experience reduce /r/-/l/ category overlap for Japanese learners of English?</i> Michel Tyler, Saya Kawase & Mark Antoniou	Alveo Workshop Denis Burnham & Steve Cassidy
14:50-15:15	Afternoon Tea	
	SESSION A-Savoy West	SESSION B-Savoy 2
	PITCH	PERCEPTION 1
15:15-15:40	<i>Tonal alignment of focal pitch accents in two varieties of Indian English.</i> Olga Maxwell & Janet Fletcher	<i>Effects of short-term exposure to unfamiliar regional accents: Australians' categorization of London and Yorkshire English consonants.</i> Jason Shaw, Catherine Best, Karen Mulak, Gerard Docherty, Bronwen Evans, Paul Foulkes & Jen Hay
15:40-16:05	<i>Amplitude and F0 as acoustic correlates of Kelantan Malay word-initial geminates.</i> Mohd Hilmi Hamzah, Janet Fletcher & John Hajek	<i>Listeners cope with speaker and accent variation differently: Evidence from the Go/No task.</i> Buddhamas Kriengwatana, Paola Escudero & Josephine Terry
16:05-16.30	<i>Pitch accents and prosodic properties of the clitic in Yukulta (Tangkic).</i> Cicely Bonnin	<i>Acoustic distance explains speaker versus accent normalization in infancy.</i> Paola Escudero, Karen Mulak & Samra Alispahic
16:30-18:00	ASSTA General Meeting Savoy 2	

SST 2014 - Thursday 4th December		
8:45-9:45	<p align="center">Plenary: Jane Stuart-Smith (University of Glasgow) <i>Twa son, some soldiers, and a city: An acoustic phonetic investigation of real-time change in Scottish English</i> Savoy West</p>	
9:45-11:00	<p align="center">Morning Tea and Poster Session</p>	
	SESSION A -Savoy West	SESSION B - Savoy 2
	NEW TECHNOLOGIES 1	ACOUSTIC PHONETICS
11:00-11:25		<p><i>A spectral analysis of laterals in three central Australian languages.</i> Marija Tabian, Andy Butcher, Gavan Breen & Richard Beare</p>
11:25-11:50	<p><i>Comparison of localised and feature-based variants of the mixelgram algorithm to perform audio visual speaker association.</i> Trent Lewis & Patrick Klaosen</p>	<p><i>Revisiting the pressure impulse in Australian languages: Bininj Gun-wok.</i> Hywel Stoakes, Andy Butcher & Janet Fletcher</p>
11:50-12:15	<p><i>Spectral enhancement of sounds by the stellate microcircuit of the ventral cochlear nucleus.</i> Timothy Esler & David Grayden</p>	<p><i>An acoustic study of the five Thai tones produced by ASD and TD children.</i> Therdpong Thongseiratch, Jariya Chuthapisith & Rungpat Roengpitya</p>
12:15-12:40	<p><i>Resources created for building New Zealand English voices.</i> Catherine Watson & Amelie Marchi</p>	<p><i>Mr White goes to market - running speech and citation tones in a Southern Thai bidialectal.</i> Phil Rose</p>
12:40-13:30	<p align="center">Lunch</p>	
13:30-14:30	<p align="center">Plenary: Gail Gillon (University of Canterbury) <i>Phonological awareness development in children with speech sound disorder</i> Savoy West</p>	
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14:55-15:20	<p><i>Advanced Tongue Root^l in Lopit: Acoustic and ultrasound evidence.</i> Rosey Billington</p>	<p><i>Thai phonetically balanced word recognition test: Test-retest reliability and error analysis.</i> A. Munthuli, C. Tantibundhit, C. Onsuwan & K. Kosawat</p>
15:20-15:45	<p align="center">Afternoon Tea</p>	
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15:45-16:10	<p><i>A first attempt at compensating for effects due to recording condition mismatch in formant trajectory based forensic voice comparison.</i> Ewald Enzinger</p>	<p><i>Temporal planning in the production of Australian English compounds.</i> Ivan Yuen, Nan Xu Rattanasone, Gretel McDonald, Rebecca Holt & Katherine Demuth</p>
16:10-16:35	<p><i>Looking into real world: LR variability under forensically realistic conditions.</i> Yuko Kinoshita</p>	<p><i>Time spent talking in retirement.</i> Nina Fhärm, Frida Wigelius Skoglund & Jan van Doorn</p>

SST 2014 - Friday 5th December		
8:45-9:45	Plenary: T. Florian Jaeger (Rochester University) <i>Speech perception and adaptation as inference under uncertainty</i> Savoy West	
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10:35-11:00	<i>Short utterance PLDA speaker verification using SN-WLDA and variance modelling techniques.</i> Ahilan Kanagasundaram, David Dean & Sridha Sridharan	<i>Assibilation in Trans-New Guinea languages of the Bird's Head region.</i> Fanny Cottet
11:00-11:25	<i>Resculling clustering trees using impact ratios for robust hierarchical speaker clustering.</i> Houman Ghaemmaghami, David Dean, Shahram Kalantari & Sridha Sridharan	<i>Iconicity in Korean consonantal symbolism.</i> Nahyun Kwon
11:25-11:50	<i>Phonetic spoken term search using topic information.</i> Sharam Kalantari, David Dean & Sridha Sridharan	<i>Some initial findings regarding first language influence on brass playing instruments.</i> Matthias Heyne & Donald Derrick
11:50-12:40	Lunch	
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13:05-13:30	<i>Stress-meter alignment in American Hip Hop.</i> Casey Tait, Marija Tabain & Ingrid Skyes	<i>Orthographic effects on phonetic cue weighting.</i> Grant McGuire
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20	<i>Replicate mismatch between test and background/development databases: The effect on the performance of likelihood ratio-based forensic voice comparison</i> Shunichi Ishihara ¹ ¹ Australian National University
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10:25-12:05, 3rd December 2014

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214	<i>Perception of Italian and Japanese consonant length by native speakers of Australian English and Italian: A pilot study</i> Kimiko Tsukada ¹ , Felicity Cox ¹ , John Hajek ² , Yukari Hirata ³ , ¹ Macquarie University, ² University of Melbourne, ³ Colgate University
218	<i>Is more always better? The perception of Dutch vowels by English versus Spanish listeners</i> Samra Alispahic ¹ , Paola Escudero ¹ , Karen Mulak ¹ ¹ University of Western Sydney
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227	<i>Investigating the effect of intrusive noise levels on speech perception in an open-plan kindergarten classroom</i> Kiri Mealings ¹ , Katherine Demuth ¹ , Jorg Buchholz ^{1,2} , Harvey Dillon ² ¹ Macquarie University, ² National Acoustics Laboratories

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243	<i>Contour-based analysis of EGG data from words in isolation and connected speech</i> Stephen Bier ¹ , Catherine Watson ¹ , Clare McCann ¹ ¹ University of Auckland
244	<i>Venezuelan Spanish intransitives: More prosodic than you'd think</i> Sasha Calhoun ¹ , Erwin La Cruz ¹ , Ana Olssen ¹ ¹ Victoria University of Wellington
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247	<i>Distinguishing dysarthric speech: Vowel acoustics and measurements</i> Annalise Fletcher ¹ , Megan McAuliffe ¹ , Kaitlin Lansford ² , Julie Liss ³ ¹ University of Canterbury, ² Florida State University, ³ Arizona State University
248	<i>Ability to identify unfamiliar speech sounds negatively correlates with second language proficiency</i> Yurika Hashimoto ¹ , Ian Wilson ¹ , Younghyon Heo ¹ ¹ University of Aizu
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250	<i>I Bag Your Pardon: The Albertan æ/ε shift and community grammars</i> Jacqueline Jones ¹ , Stephen Winters ¹ ¹ University of Calgary
251	<i>Diphthong trajectories in Māori</i> Jeanette King ¹ , Catherine Watson ² , Margaret Maclagan ¹ , Peter Keegan ² , Ray Harlow ³ ¹ University of Canterbury, ² University of Auckland, ³ University of Waikato (Retired)
253	<i>Preliminary comparison of New Caledonian & Metropolitan French mid vowels</i> Eleanor Lewis ¹ ¹ University of Melbourne
254	<i>Eye movements reveal Cantonese listeners use statistical information to assess category membership of acoustic cues</i> Jessie Nixon ¹ , Jacolien van Rij ¹ , Harald Baayen ¹ , Peggy Mok ² , Yiya Chen ³ ¹ University of Tübingen, ² Chinese University of Hong Kong, ³ Leiden University
255	<i>Articulatory coordination in Nama click consonants</i> Michael Proctor ¹ , Yinghua Zhu ² , Adam Lammert ² , Asterios Toutios ² , Bonny Sands ³ , Shrikanth Narayanan ² , ¹ Macquarie University, ² University of Southern California, ³ Northern Arizona University
256	<i>Blocking in linguistic associative learning</i> Darcy Rose ¹ , Peter Racz ¹ , Jen Hay ¹ , Beth Hume ¹ University of Canterbury
257	<i>Synthesizing speech using the AusTalk corpus</i> Zhijie Shao ¹ , Richard Leibbrandt ¹ , Trent Lewis ¹ ¹ Flinders University

258	<i>The neurophysiological correlates of overt speech productions: Dissociation of the speech production phases and test-retest reliability</i> Catherine Theys ¹ , Maarten De Vos ² , Megan McAuliffe ¹ ¹ University of Canterbury, ² University of Oldenburg
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