



SST2024 TUTORIAL DAY - MON 2 DEC

A.M

8:30-9:00 Foyer Registration

9:00-10:30 Tutorial Rooms Tutorial 1 & 2 (first half)

Tutorial Room 1
Academic Centre Tutorial 1: Phonetic documentation: How to develop a comprehensive description of a language's sound system [Rosey Billington](#)

Tutorial Room 2
Seminar Centre Tutorial 2: An introduction to methods for acoustic analysis of voice quality [Joshua Penney and Hannah White](#)

10:30-11:00 Morning Tea

11:00-12:30 Tutorial Rooms Tutorial 1 & 2 (second half)

Tutorial Room 1
Academic Centre Tutorial 1: Phonetic documentation: How to develop a comprehensive description of a language's sound system [Rosey Billington](#)

Tutorial Room 2
Seminar Centre Tutorial 2: An introduction to methods for acoustic analysis of voice quality [Joshua Penney and Hannah White](#)

P.M

12:30-13:30 Lunch

13:30-15:00 Tutorial Rooms Tutorial 3 & 4 (first half)

Tutorial Room 1
Academic Centre Tutorial 3: Cochlear implant sound processing and perception [Brett A. Swanson](#)

Tutorial Room 2
Seminar Centre Tutorial 4: Prosodic prominence – a cross-linguistic exploration [Sasha Caulhoun](#)

15:00-15:30 Afternoon Tea

15:30-17:00 Tutorial Rooms Tutorial 3 & 4 (second half)

Tutorial Room 1
Academic Centre Tutorial 3: Cochlear implant sound processing and perception [Brett A. Swanson](#)

Tutorial Room 2
Seminar Centre Tutorial 4: Prosodic prominence – a cross-linguistic exploration [Sasha Caulhoun](#)

17:30-19:30 University House Welcome Reception & Registration



SST2024 DAY ONE - TUE 3 DEC

A.M

8:30-9:00	Foyer	Registration
9:00-9:30	Leggatt Hall	Welcome to Country
9:30-10:30	Leggatt Hall	Keynote: A Consideration of the Consonant Chart in the International Phonetic Alphabet <i>Marija Tabain</i> (Chair: Janet Fletcher)
10:30-11:00		Morning Tea
11:00-12:30	Tutorial Room 1 Academic Centre	Session 1: Consonants (Chair: Joshua Penny)
		<ul style="list-style-type: none"> • Lateral Articulation Across Vowel Contexts: Insights from a Magnetic Resonance Imaging Case Study Tuende Szalay, Michael Proctor, Amelia Gully, Tharinda Piyadasa, Craig Jin, David Waddington, Naeim Sanaei, Yaoyao Yue, Sheryl Foster and Kirrie Ballard • Māori /r/ Acoustics: Preliminary Analysis of the First and Second Formant Isabella Shields, Peter Keegan and Catherine Watson • Sonority Patterns in Lelepa Onset Clusters Chao Sun and Rosey Billington
11:00-12:30	Tutorial Room 2 Seminar Centre	Session 2: Machine Learning (Chair: Justine Hui)
		<ul style="list-style-type: none"> • Extending ASR Systems Error Measurements: Reporting LEXICAL and GRAMMATICAL Errors Simon Gonzalez, Jason Littlefield, Tao Hoang, Maria Kim, Tim Cawley and Jennifer Biggs • Application of ASR to a Sociolinguistic Corpus of Australian English Maya Weiss, Ksenia Gnevshva, Catherine Travis and Gerry Docherty • Does the Inclusion of Other Modalities Enhance the Performance of Speech Emotion Recognition Systems? Junchen Liu, Jesin James and Karan Nathwani

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12:30-13:30		Lunch
13:30-15:00	Tutorial Room 1 Academic Centre	Session 3: Speech Processing (Chair: Laurence Bruggeman)
		<ul style="list-style-type: none"> • Masker Language and Acoustic Confusability: Effects on Letter Sequence Recognition Jessica L. L. Chin, Laurence Bruggeman and Mark Antoniou • Coarticulation and Transitional Probability in Japanese Perceptual Epenthesis Alexander Kilpatrick and Sharon Peperkamp • Decoding Surprisal and Iconicity in American English Alexander Kilpatrick and Rikke Bundgaard Nielsen

13:30-15:00	Tutorial Room 2 Seminar Center	Session 4: Vowels (Chair: Brooke Ross)
		<ul style="list-style-type: none"> • Acoustic Analysis of Vowel Production using Magnetic Resonance Imaging Tharinda Meegasmullage Piyadasa, Michael Proctor, Amelia Gully, Yaoyao Yue, Kirrie Ballard, Naeim Sanaei, Sheryl Foster, Tuende Szalay, David Waddington and Craig Jin • Static and Dynamic Analyses of the Back Vowels /u:/ and /ʊ/ in Singapore English Canaan Lan, Olga Maxwell and Chloé Diskin-Holdaway • Schwa Optionality in Spontaneous Speech in German: A Meta-Study of Verbal Inflection in Three Corpora Christine Mooshammer, Robert Lange and Marie-Theres Weißgerber
15:00-15:30		Afternoon Tea
15:30-17:00	Tutorial Room 1 Academic Centre	Session 5: Bilingual Speech (Chair: Chloé Diskin-Holdaway)
		<ul style="list-style-type: none"> • Bilinguals' Segmentation of Unfamiliar Speech Rhythm Poorani Vijayakumar, Laurence Bruggeman and Mark Antoniou • Development of Phonetic Cues in Early L2 speech Production: The case of Korean Plosives Pronounced by Native German speakers Yeongeun Choi and Christoph Draxler • Articulation of North American English /r/ by Japanese and Mandarin Speakers Daichi Ishii and Ian Wilson
15:30-17:00	Tutorial Room 2 Seminar Centre	Session 6: Australian English (Chair: Kirsty McDougall)
		<ul style="list-style-type: none"> • Characterizing Rhotic Articulation in Australian English Using Ultrasound Michael Proctor, Jae-Hyun Kim, Joshua Penney, Louise Ratko and Felicity Cox • Give a Little Whistle: A Neglected Characteristic of Australian English Productions of /s/ Elise Tobin, Joshua Penney, Hannah White and Felicity Cox • Vowel Acoustics in Conversational Central Australian Aboriginal English Yizhou Wang, Carmel O'Shannessy, Vanessa Davis, Rikke Bundgaard-Nielsen, Joshua Roberts and Denise Foster
18:00-19:30	Prince Alfred (Carlton)	Student/ECR Event

End of Day One



SST2024 DAY TWO - WED 4 DEC

A.M

8:30-9:00	Foyer	Registration
9:00-11:00	Tutorial Room 1 Academic Centre	Session 7: Child Language Acquisition (Chair: Rikke Bundgaard-Nielsen) <ul style="list-style-type: none">• A Database of Multilingual Child Speech with Recordings from a Longitudinal Project for Multilingual Education Paola Escudero, Gloria Pino Escobar, Milena Hernandez Gallego, Chloé Diskin-Holdaway and John Hajek• Have Four-Year-Olds Mastered Vowel Reduction in English? An Acoustic Analysis of Bilingual and Monolingual Child Storytelling Paola Escudero, Weicong Li and Chloé Diskin-Holdaway• Bilingual Preschoolers' Phonetic Variation Keeps up with Monolingual Peers: The Case Of Voiceless Plosives in Australian English Chloé Diskin-Holdaway, Weicong Li and Paola Escudero• English Lexical Productivity and Diversity in Spanish-English Bilingual Children in Australia Milena Hernandez Gallego, Gloria Pino Escobar, Weicong Li and Paola Escudero
9:00-11:00	Tutorial Room 2 Seminar Centre	Special Session: The Phonetic Expression of Phonological Length (Organisers: Francesco Burroni, Angelo Dian & John Hajek) <ul style="list-style-type: none">• Stop Oppositions in Warumungu: A Distributional and Acoustic Analysis Mitchell Browne, Michael Proctor, Jane Simpson, Mark Harvey, Robert Mailhammer and Harriet Carpenter• Phonetic Evidence for Fortis-Lenis Contrast in Kufo Pulmonic Plosives Shubo Li and Rosey Billington• On Consonant Gemination and Durational Effects in Word-Medial Position in Modern Standard Arabic: A Preliminary Study Albandary Aldossari, Angelo Dian, John Hajek and Janet Fletcher <p style="text-align: center;">10 minute break</p> <ul style="list-style-type: none">• Perception of the Kelantan Malay Word-Initial Singleton/Geminate Contrast by Vietnamese Speakers Mohd Hilmi Hamzah, Kimiko Tsukada, John Hajek and Dích Múc Đào• A Preliminary Study on the Vowel Length Contrast in te reo Māori C. T. Justine Hui, Isabella Shields, Peter Keegan and Catherine Watson• Vowel Duration Beyond Contrastive Length in Djambarrpuyŋu Kathleen Jepson and Rasmus Puggaard-Rode
11:00-11:30		Morning Tea

11:30-12:30 Tutorial Room 1
Academic Centre **Session 8A: Voice Quality** (Chair: James Walker)

- **An Acoustic and Electroglottographic (EGG) Investigation of Preaspiration and Voice Quality in the Italian Four-Way Stop Contrast Across Regional Accents** Angelo Dian, John Hajek and Janet Fletcher
- **Fillers and Creaky Voice Presence in Australian English** Hannah White, Joshua Penney and Felicity Cox

11:30-12:30 Tutorial Room 2
Seminar Centre **Session 8B: Prosody** (Chair: Katie Jepson)

- **The Effects of Syntactic Dependencies and Speech Tempo on Macro-Rhythm** Catalina Torres, Marie-Anne Morand, Sebastian Sauppe and Balthasar Bickel
- **Speech Task and Prosodic Context Influence Glottal Stop Variation in Tahitian** Janet Fletcher and Adele Gregory

P.M

12:30-13:30 Lunch

13:30-15:00 Greta Hort Library **Poster Session**

- **An Alternative Approach to Depression Diagnosis: Predicting Individual Symptoms Through Speech and Text Analysis** Karim M. Ibrahim, Antony Perzo and Larsen D’hiet
- **Investigating Word Retrieval Bias During Verbal Semantic Fluency Tasks in Adolescents At-Risk for Mental Health Disorders** Brian Stasak and Mark Larsen
- **Towards Identifying the Common Social Emotions in Spoken te reo Māori: A Community-Oriented Approach** Himashi Rathnayake, Jesin James, Ake Nicholas, Gianna Leoni, Catherine I. Watson and Peter J. Keegan
- **How Does Prosody Distinguish Wh-Question from Wh-Declarative in Shanghai Chinese** Ling Bijun
- **The Production of /l/ in Italian by HS and L2 Italian Speakers in Australia: Exploring the Effect of Syllable Position and Adjacent Vowel Quality** Valentina De Iacovo and John Hajek
- **Factors Influencing Flexibility in Vowel Categorisation** Stephanie Cooper and Brechtje Post
- **Visualising Vowel Dynamics for the Training of Text to Speech Systems** Henry An, Jesin James, Catherine I. Watson and Binu Abeysinghe
- **SocioPhonAus4 “I adopt my freshness”: Exploring Style Shifting by a Rainbow Māori New Zealander** Aimee Herubin
- **Impact of Acoustic Environments on Listening Effort: A Pilot Pupilometry Study** Epri Wahyu Pratiwi, C.T. Justine Hui and Yusuke Hioka
- **Learning to Understand an Unfamiliar Talker: Testing Models of Adaptive Speech Perception** Maryann Tan and T Florian Jaeger
- **Prosodic Cues Guide Mandarin-Speaking Preschoolers’ Identification of Compounds but Not Lists** Feng Xu, Ping Tang, Katherine Demuth, and Nan Xu Rattanasone
- **Simulating Psychophysical Forward Masking in a Model of Hearing with Cochlear Implants** Xiaowei Xia, Demi X. Gao, Martin Spencer, Tim Brochier, and David B. Grayden
- **The Diphthongization of FLEECE and GOOSE in Auckland** Brooke Ross, Catherine Watson, and Elaine Ballard
- **The Effects of Autistic-Like Traits on Prosodic Cue-Weighting in a Matched Speech Perception and Production Task** Monika Krizic, Daniel Pape, and Gemma Repiso-Puigdeliura
- **The Role of Foreign Accents in Humor Appreciation: An Exploratory Perception Study** Elaina van Abbema, Daniel Pape, and Gemma Repiso-Puigdeliura
- **Towards the Detection of Speech Deepfakes for Scam Prevention** Anthony White and Catherine Watson

- Day Two 2/3 -

15:00-15:30

Afternoon Tea

15:30-16:30

Leggatt Hall

Inaugural Anne Cutler Lecture: Phonetic typology, and what we know and don't know about the sounds of the world's languages *Rosey Billington* (Chair: Brett Baker)

16:30-17:30

Leggatt Hall

ASSTA AGM

18:30

Young and Jacksons

Conference Dinner

End of Day Two

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SST2024 DAY THREE - THUR 5 DEC

A.M

8:30-9:00	Foyer	Registration
9:00-10:00	Leggatt Hall	SocioPhonAus4 Keynote: Understanding co-variation in speech production and perception <i>Lynn Clark</i> (Chair: Gerry Docherty)
10:00-10:30		Morning Tea
10:30-12:30	Tutorial Room 1 Academic Centre	SocioPhonAus4 (1) (Chair: Debbie Loakes) <ul style="list-style-type: none">• Positional Allophony, Ethnolectal Variation and /l/ Darkness in Australian English Conor Clements, Joshua Penney and Felicity Cox• A Doll on the Dole: Prelateral Length Mergers in Australian English Joshua van de Ven, Brett Baker, Rikke Bundgaard-Nielsen and Yizhou Wang• Realisation of Intervocalic /t/ in Australian English: A snapshot Thomas Powell-Davies and Rosey Billington• Voice Quality in Voiceless Coda Stop Contexts: Evidence from Australian English Speakers with English and Arabic Language Backgrounds Joshua Penney and Felicity Cox
10:30-12:30	Tutorial Room 2 Seminar Centre	Session 9: Forensics (Chair: Annina Heini) <ul style="list-style-type: none">• FSEEL: A Platform for Listening-Based Evaluation of Forensic Speech Enhancement Vincent Aubanel and Helen Fraser• Evaluating Transcripts of Poor-quality Forensic Audio: Sine-Wave Speech and Forensic Audio Eleanor Kettle and Helen Fraser• Applications of the Likelihood Ratio Framework in Forensic Speech Science Cases Involving Disputed Utterances, Tampering, and Voice Lineups Phil Rose• Locating Spectral Regions of Speaker Sensitivity with the Sub-Band Mel-Frequency Cepstrum: An Investigation Guided by Forensic Voice Comparison Frantz Clermont and Shunichi Ishihara

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12:30-13:30		Lunch
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13:30-15:00	Tutorial Room 1 Academic Centre	SocioPhonAus4 (2) (Chair: Janet Fletcher)
		<ul style="list-style-type: none"> • Patterns of Silent Pausing in Aboriginal and Mainstream Australian Englishes Spoken in Warrnambool Kirsty McDougall, Alice Paver, Martin Duckworth, Liz Blackwell and Debbie Loakes • Sociophonetic Variation of Filled Pauses in Victoria, Australia Liz Blackwell and Kirsty McDougall • Masculinity and Sexual Orientation as Predictors of Creaky Voice in Australian English Speaking Men Timothy Shea, Hannah White, Joshua Penney and Felicity Cox
13:30-15:00	Tutorial Room 2 Seminar Centre	Session 10: Affective Speech (Chair: Vincent Aubanel)
		<ul style="list-style-type: none"> • Preliminary Acoustic Analysis of Emotional Speech Production from New Zealand English Speakers with Parkinson's disease Itay Ben-Dom, Catherine Watson and Clare McCann • Exploring Fundamental Frequency Characteristics of Australian Adolescents with and without Depression in the Future Proofing Study Corpus Tuende Szalay, Brian Stasak, Kate Maston, Aliza Werner-Seidler and Mark Larsen • Impact of Speech Emotions on Vowel Space Daniel Cho, Catherine Watson and Jesin James
15:00-15:30		Afternoon Tea
15:30-16:30	Leggatt Hall	Keynote: The interplay of prosodic and syntactic cues in English and Mandarin focus processing <i>Sasha Calhoun</i> (Chair: Olga Maxwell)
16:30-17:00	Leggatt Hall	Closing Address

End of Programme