

Conference Program

Wednesday – October 4, 2017

08:30 – 09:30 Registration

09:30 – 10:00 **Opening Introductions**

10:00 – 11:00 **Keynote: Marianne Pouplier**
Cross-linguistic differences in coarticulation and their implications for phonotactics

11:00 – 11:30 *Coffee Break*

Oral session 1: Phonology & Phonetics

11:30 – 12:00 **Shuwen Chen, Peggy Pik Ki Mok Wei-rong, Mark Tiede, Wei-rong Chen, Douglas H. Whalen**
Investigating the production of Mandarin rhotics using ultrasound imaging

12:00 – 12:30 **Patrycja Strycharczuk, Donald Derrick & Jason Shaw**
Midsagittal correlates of tongue lateralization

12:30 – 13:00 **Petroula Mousikou, Patrycja Strycharczuk, Alice Turk & James M. Scobbie**
Morphological effects on articulation

13:00 – 14:30 *Lunch*

Oral session 2: Phonology & Phonetics

14:30 – 15:00 **Amanda L. Miller**
C-V coarticulation in consonants with multiple lingual constrictions

15:00 – 15:30 **Sawsan Alwabari**
Articulatory constraints and sensitivity to coarticulation of Arabic pharyngealization

15:30 – 16:00 *Coffee Break*

16:00 – 17:30 **Poster & Demo Session 1**

Oral session 3: Cross-linguistic Research

17:30 – 18:00 **Eleanor Lawson, Jane Stuart-Smith & Lydia Mills**
Using ultrasound to investigate articulatory variation in the GOOSE vowel in the British Isles

18:00 – 18:30 **Stefano Coretta**
Vowel duration and tongue root advancement in Italian and Polish

18:30 **Welcome Drink**

Conference Program

Thursday – October 5, 2017

Oral session 4: Methodological Research

- 10:00 – 10:30 **Alan Wrench & Peter Balch**
A 3D biomechanical equilibrium model of the tongue
- 10:30 – 11:00 **Steven M. Lulich**
Acquisition and Analysis of 3D/4D Ultrasound Recordings of Speech

11:00 – 11:30 *Coffee Break*

Oral session 5: Methodological Research

- 11:30 – 12:00 **Douglas H. Whalen, Mark K. Tiede & Boram Kim**
Quantification of Pivots in Ultrasound Images
- 12:00 – 12:30 **Alessandro Vietti, Alessia Pini, Lorenzo Spreafico & Simone Vantini**
Towards cross-subject comparison of tongue profiles.
A Functional Data Analysis approach
- 12:30 – 13:00 **James M. Scobbie & Joanne Cleland**
Dorsal Crescents: Area and radius-based mid-sagittal measurements of comparative velarity

13:00 – 14:30 *Lunch*

Oral session 6: Clinical Research

- 14:30 – 15:00 **Joanne Cleland, James M. Scobbie, Zoe Roxburgh, Cornelia Heyde & Alan Wrench**
UltraPhonix: Ultrasound Visual Biofeedback for the Treatment of Speech Sound Disorders
- 15:00 – 15:30 **Paméla Trudeau-Fisette, Marie Bellavance-Courtemanche, Christine Turgeon, Camille Vidou & Lucie Ménard**
Exploring the effect of Myotonic Dystrophy in compensatory strategies to a lip-tube perturbation
- 15:30 – 16:00 **Giovanna Lenoci & Irene Ricci**
Coarticulation and stability of speech in Italian children who stutter and normally fluent children: an ultrasound study

16:00 **Bus tour & Dinner**

Conference Program

Friday – October 6, 2017

09:30 – 10:30 **Keynote: Khalil Iskarous**
Dynamical principles of hydrostat movement: Worm, octopus, tongue

10:30 – 11:00 *Coffee Break*

Oral session 7: First & Second Language Acquisition

11:00 – 11:30 **Dzhuma Abakarova & Aude Noiray**
Development of coarticulation in German children

11:30 – 12:00 **Natalia Zharkova**
Changes in dynamic lingual coarticulation of /s/ between eleven and thirteen years old

12:00 – 12:30 **Kevin D. Roon, Jaekoo Kang & Douglas. H. Whalen**
Using ultrasound feedback to aid in L2 acquisition of Russian palatalization

12:30 – 13:00 **Thomas Kaltenbacher**
What the [ʈ] [ɹ] they doing? Ultrasound in the EFL pronunciation classroom

13:00 – 14:30 *Lunch*

14:30 – 16:00 **Poster & Demo Session 2**

16:00 – 16:30 *Coffee Break*

Oral session 8: Dialectal & Field Research

16:30 – 17:00 **Jonathan Havenhill, Elizabeth C. Zsiga, One Tlale Boyer & Stacy Petersen**
Ultrasound as a tool for language documentation: The production of labio-coronal fricatives in Setswana

17:00 – 17:30 **Andrea Calabrese & Mirko Grimaldi**
Micro-variation in a metaphonic system: Acoustic-articulatory evidence from the Tricase dialect

17:30 **General Discussion & Closing Remarks**

Conference Program: Poster & Demo sessions

Wednesday – October 4, 2017: Session 1

Poster

- 1 **Chiara Celata, Chiara Meluzzi, Scott Moisik & John Esling**
A lingual-laryngeal ultrasound view of aryepiglottic trills
- 2 **Tamás Gábor Csapó, Andrea Deme, Tekla Etelka Grácsi & Alexandra Markó**
Comparison of distance measures in tongue contour traces of ultrasound images
- 3 **Reza Falahati & Etske Ooijevaar**
Articulatory timing coordination of off-glides in Persian
- 4 **Phil Howson**
An Ultrasound Investigation of Upper Sorbian Rhotics
- 5 **Hannah King & Anqi Liu**
An ultrasound and acoustic study of the rhotic suffix in Mandarin
- 6 **Catherine Laporte & Steven M. Lulich**
Towards automated segmentation of the moving tongue surface in 3D ultrasound
- 7 **Lorenzo Spreafico, Anna Matosova, Alessandro Vietti & Vincenzo Galatà**
Development of two head-probe stabilization devices for speech research and applications
- 8 **Mayuki Matsui**
Tongue-root coordination for voicing in Russian palatalized and “velarized” stops
- 9 **Pertti Palo & Steve Cowen**
Simultaneous Recording of Tongue Ultrasound and Oral Airflow
- 10 **Elisa Reunanen & Maija S. Peltola**
Articulatory movements and coarticulation in Finnish vowels

Demo

- D1 **Wei-rong Chen, Mark Tiede & Shuwen Chen**
An optimization method for correction of ultrasound probe-related contours to head-centric coordinates
 - D2 **Joan Ma & Alan Wrench**
Swallowing assessment by ultrasound analysis of hyoid, larynx and tongue timing patterns
 - D3 **Clara Rodríguez & Daniel Recasens**
R scripts for displaying lingual trajectories using ultrasound data
 - D4 **Clarius ultrasound**
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Conference Program: Poster & Demo sessions

Friday – October 6, 2017: Session 2

Poster

- 1 **Suzy Ahn**
Tongue positioning in laryngeal contrasts: A study of English, German, Brazilian Portuguese, Thai, and Hindi
- 2 **Lauretta Cheng, Murray Schellenberg, Colin Jones & Bryan Gick**
Cross-linguistic evidence for lateral bracing in speech
- 3 **Joanne Cleland, Lisa Crampin, Alan Wrench, Natalia Zharkova, Susan Lloyd & Pertti Palo**
Visualising Speech A Protocol for using Ultrasound to Assess Cleft-Type Speech Characteristics
- 4 **Eleanor Lawson**
An ultrasound investigation of coda /r/ tongue gesture timing in spontaneous speech
- 5 **Scott Lewis, Esther de Leeuw & Erez Levon**
An ultrasound investigation into gestural drift and identity in Merseyside English speakers living in London, UK
- 6 **Sam Kirkham & Claire Nance**
The articulation of cross-linguistic vowel contrasts in bilinguals: [ATR] vowels in Twi and [TENSE] vowels in Ghanaian English
- 7 **Louise McKeever, Joanne Cleland & Jonathan Delafield-Butt**
Speech motor control and fine motor control in children with autism: An Investigation using ultrasound tongue imaging (speech) and optical motion tracking (fine motor)
- 8 **Stefanos Tserkezis & Aude Noiray**
Lingual coarticulation in German typical versus reading disordered children
- 9 **Fabienne Westerberg, Eleanor Lawson, James Scobbie & Stephen Cowen**
Is UTI suitable for fieldwork? Practical observations from six weeks of recording in Sweden
- 10 **Fabienne Westerberg, Jane Stuart-Smith, Eleanor Lawson, James Scobbie & Stephen Cowen**
Variation in tongue gesture and acoustics for the Swedish /i:/ vowel

Demo

- D1 **Steven M. Lulich**
Acquisition and Analysis of 3D/4D Ultrasound Recordings of Speech
 - D2 **James M. Scobbie & Joanne Cleland**
Dorsal Crescents: Area and radius-based mid-sagittal measurements of comparative velarity
 - D3 **Alessandro Vietti, Alessia Pini, Lorenzo Spreafico & Simone Vantini**
Towards cross-subject comparison of tongue profiles A Functional Data Analysis approach
 - D4 **Alan Wrench**
Real-time tongue contour fitting and vocal tract carving
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