CNS Satellite Symposium: Neural bases of speech production, 24th March 2017

Jan 23, 2017

Date:
March 24, 2017

Location:
Nursing School Auditorium N225, 513 Parnassus Ave., University of California San Francisco, San Francisco, CA 94122

Click to register [1]

Organisers: Professor John F. Houde [3], Dept. of Otolaryngology HEAD and Neck Surgery & Professor Srikantan Nagarajan [4], Dept. of Radiology, University of California, San Francisco
How does the neural circuitry of the brain create speech, and what are the constraints on this process? In the past several years, there has been exciting progress on many aspects of this topic, and at this symposium we will hear from many of the leaders in the field who are advancing it. In a full-day symposium, a series of sixteen speakers will present the latest findings on the neural control of speech output, how sensory feedback interacts with it, and how learning plays a role in the process.

Schedule:

8:45 am  
Coffee

**Session chair: John F. Houde**, Dept. of Otolaryngology ? Head and Neck Surgery, UCSF

9:00 am  
**Opening remarks**

John F. Houde, Dept. of Otolaryngology ? Head and Neck Surgery, UCSF, San Francisco, CA

9:05 am  
**Sensorimotor representations in verbal working memory** [6]

Bradley Buchsbaum, Rotman Research Institute, Toronto, Canada

9:27 am  
**Dissociating input- and output-related representations of speech in syllable repetition** [7]

Jason Bohland, Dept. of Speech, Language and Hearing Sciences, Boston University, Boston, MA

9:49 am  
**From sensorimotor to cognitive: The neural-computational bases of higher-level speech control** [8]

Nicholas Bourguignon, Dept. of Experimental Psychology, Ghent University, Gent, Belgium

10:09 am  
Coffee break (15 min)

**Session chair: Carrie Niziolek**, Dept. of Speech, Language and Hearing Sciences, Boston University

10:27 am  
**Connectivity profiles of the insular network for speech control** [10]

Giovanni Battistella, Dept. of Neurology, Icahn School of Medicine at Mount Sinai, New York, NY

10:49 am  
**Clinical implications of efference Copy and laryngeal mechanoreceptors in speech sensorimotor control** [11]

Michael Hammer, Dept. of Surgery, Division of Otolaryngology, University of Wisconsin, Madison, WI

11:11 am  
**Auditory Feedback Processing in Alzheimer?s disease** [12]

Kamalini Ranasinghe, Dept. of Neurology, UCSF, San Francisco, CA
<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Speaker(s)</th>
<th>Institution(s)</th>
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</thead>
<tbody>
<tr>
<td>11:31 am</td>
<td>Coffee break (15 min)</td>
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<tr>
<td>11:49 am</td>
<td>Human Laryngeal Cortex in Vocal Pitch Production</td>
<td>Benjamin Dichter</td>
<td>Program in Bioengineering, UCSF, San Francisco, CA</td>
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<tr>
<td>12:11 pm</td>
<td>Using direct brain recordings for insights in human speech motor control</td>
<td>Jeremy Greenlee</td>
<td>Dept. of Neurosurgery, University of Iowa, Iowa City, IA</td>
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<tr>
<td>12:31 pm</td>
<td>Lunch (1 hour)</td>
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<tr>
<td>1:34 pm</td>
<td>Speech production without the vocal tract</td>
<td>Megan Thompson</td>
<td>Program in Bioengineering, UCSF, San Francisco, CA</td>
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<tr>
<td>1:56 pm</td>
<td>What sign production can tell us about speech production</td>
<td>Karen Emmorey</td>
<td>Dept. of Speech, Language, and Hearing Sciences, San Diego State University</td>
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<td>2:16 pm</td>
<td>Coffee break (15 min)</td>
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<td>2:34 pm</td>
<td>Widespread changes to the cortical sensorimotor network due to somatosensory input in speech motor learning</td>
<td>David Ostry</td>
<td>Dept. of Psychology, McGill University, Montreal, Canada, Haskins Laboratories, New Haven, CT</td>
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<tr>
<td>2:56 pm</td>
<td>Feedforward and feedback control in patients with cerebellar degeneration</td>
<td>Benjamin Parrell</td>
<td>Dept. of Linguistics and Cognitive Science and Biomechanics</td>
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<td>3:18 pm</td>
<td>Simulating a hierarchical, task-based, state-feedback model of speech motor control</td>
<td>Vikram Ramanarayanan</td>
<td>Educational Testing Service Research &amp; Development</td>
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<td>3:38 pm</td>
<td>Coffee break (15 min)</td>
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</table>
Session chair: Srikantan S. Nagarajan[4], Dept. of Radiology, UCSF

3:56 pm  Modulation of auditory processing during speech movement planning
Ludo Max, Dept. of Speech and Hearing Sciences, Dept. of Linguistics, and

4:18 pm  Modulation of covert speech on overt loudness perception implies the
Xing Tian, Dept. of Neural and Cognitive Sciences and NYU-ECNU Institute

4:40 pm  Observations of task-deactivation and negative BOLD response control
Vincent Gracco, School of Communication Sciences and Disorders and Co

5:00 pm  Concluding remarks
Srikantan S. Nagarajan[4], Dept. of Radiology, Dept. of Otolaryngology - Head and Neck Surgery, UCSF

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Links:
[2] https://www.youtube.com/watch?v=bjEQi7GXG_0
[19] https://www.linkedin.com/in/inezrahario/