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:**

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
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<tr>
<td>8:45 am</td>
<td>Coffee</td>
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<td>9:00 am</td>
<td>Opening remarks</td>
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<td></td>
<td>John F. Houde, Dept. of Otolaryngology ? Head and Neck Surgery, UCSF</td>
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<tr>
<td>9:05 am</td>
<td>Sensorimotor representations in verbal working memory [6]</td>
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<td>Bradley Buchsbaum, Rotman Research Institute, Toronto, Canada</td>
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<td>9:27 am</td>
<td>Dissociating input- and output-related representations of speech in syllable repetition [7]</td>
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<td>Jason Bohland, Dept. of Speech, Language and Hearing Sciences, Boston University</td>
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<td>9:49 am</td>
<td>From sensorimotor to cognitive: The neural-computational bases of higher-level speech control [8]</td>
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<td>Nicholas Bourguignon, Dept. of Experimental Psychology, Ghent University</td>
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<td>10:09 am</td>
<td>Coffee break (15 min)</td>
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<td>10:27 am</td>
<td>Connectivity profiles of the insular network for speech control [10]</td>
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<td>Giovanni Battistella, Dept. of Neurology, Icahn School of Medicine at Mount Sinai</td>
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<tr>
<td>10:49 am</td>
<td>Clinical implications of efference Copy and laryngeal mechanoreceptors in speech sensorimotor control [11]</td>
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<td>Michael Hammer, Dept. of Surgery, Division of Otolaryngology, University of Wisconsin, Madison, WI</td>
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<td>11:11 am</td>
<td>Auditory Feedback Processing in Alzheimer’s disease [12]</td>
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<td>Kamalini Ranasinghe, Dept. of Neurology, UCSF, San Francisco, CA</td>
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11:31 am  Coffee break (15 min)

**Session chair:** Zarinah Agnew, *Dept. of Otolaryngology - Head and Neck Surgery, UCSF*

11:49 am  Human Laryngeal Cortex in Vocal Pitch Production

*Benjamin Dichter, Program in Bioengineering, UCSF, San Francisco, CA and UC Berkeley, Berkeley, CA*

12:11 pm  Using direct brain recordings for insights in human speech motor control

*Jeremy Greenlee, Dept. of Neurosurgery, University of Iowa, Iowa City, IA*

12:31 pm  Lunch (1 hour)

**Session chair:** Hardik Kothare, *Dept. of Radiology, UCSF*

1:34 pm  Speech production without the vocal tract

*Megan Thompson, Program in Bioengineering, UCSF, San Francisco, CA*

1:56 pm  What sign production can tell us about speech production

*Karen Emmorey, Dept. of Speech, Language, and Hearing Sciences, San Diego State University, San Diego, CA*

2:16 pm  Coffee break (15 min)

**Session chair:** Inez Raharjo, *Program in Bioengineering, UCSF and UC Berkeley*

2:34 pm  Widespread changes to the cortical sensorimotor network due to somatosensory input in speech motor learning

*David Ostry, Dept. of Psychology, McGill University, Montreal, Canada, and Haskins Laboratories, New Haven, CT*

2:56 pm  Feedforward and feedback control in patients with cerebellar degeneration

*Benjamin Parrell, Dept. of Linguistics and Cognitive Science and Biomechanics and Movement Science Program, University of Delaware, Newark, DE*

3:18 pm  Simulating a hierarchical, task-based, state-feedback model of speech motor control

*Vikram Ramanarayanan, Educational Testing Service Research & Development, San Francisco, CA*

3:38 pm  Coffee break (15 min)
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 mechanism of speech monitoring
Xing Tian, Dept. of Neural and Cognitive Sciences and NYU-ECNU Institute

4:40 pm  Observations of task-deactivation and negative BOLD response contributions to speech production
Vincent Gracco, School of Communication Sciences and Disorders and Center for Research on Brain, Language & Music, McGill University, Montreal, Canada, and Haskins Laboratories, New Haven, CT

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

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