



ILCB

Institute of Language Communication and the Brain

ILCB Newsletter

September 2018

-- French version below

NEXT CALL FOR PROJECTS

The next deadline for applying to the ILCB Call for Projects is **Sunday 23^d September**
[Read more](#)

EXECUTIVE BOARD MEETING

The next Executive Board will be held on **Tuesday 2^d October**

EDUCATION

2018/2019 is a benchmark for the educational dimension of the ILCB:

Thanks to the sustained collaboration of a teaching team from 5 departments, 2 Faculties and the ILCB, **the MaSCo is now officially open**, with 32 new students from various backgrounds, eager to discover the interdisciplinarity of Cognitive Sciences.

Early September, just before the official start of the MaSCo, **the ILCB Summer School** has offered to the MA Students as well as PhD students and Postdocs a stimulating week of intensive courses in the astounding Station Marine d'Endoume, with Applied Mathematics, Statistics and Networks courses, Neuroscience and Behavior courses, Language and Cognition courses and Computer Science and Machine Learning courses. The team and the participants made this event an inspiring week, from a scientific and educational point of view, as well as a warmly encounter, with social events, swimings, concerts, etc. You can capture the atmosphere on our [photo gallery](#).

This successful event was held thanks to the organizers: Christian Benar, Benoit Favre, Adrien Meguerditchian, Magali Ochs, Philippe Blache, the teachers: Bernard Giusiano, Andrea Brovelli, Adrien Meguerditchian, Céline Scola, James German, Kristof Strijkers, Hachem Kadri, Sylvain Takerkart, the administrative staff: Nadera Bureau, and Julie Abbou, and the Station Marine d'Endoume.

Last, led by Elin Runnqvist and Benjamin Morillon, **the ILCB PhD Program opens this year** with a package of courses and events dedicated to the PhD Students from the ILCB and beyond. Details of courses coming soon.

LUNCH TALKS

Friday 21st September

salle de séminaire [FRUMAM](#) (site Saint Charles Marseille)

12:00 : Talk – 13:00 : Lunch

Processing time with our auditory system

Christian Lorenzi (CNRS & Ecole normale supérieure, Paris, France)

Debate on how speech information is represented in the auditory system has revolved around the role of two neural/perceptual features encoding the temporal modulations of the acoustic signal (the “temporal envelope”, ENV, and “temporal fine structure”, TFS), their relative contribution to intelligibility and how that might be degraded by lesions to the peripheral and central auditory system.

We will review psychophysical studies that investigated the development of ENV/TFS perception, the effects of cochlear and central lesions, and the relationship between ENV/TFS perception and speech intelligibility.

Our results suggest that: i) the processing of ENV and TFS is “functional” by 6 months, and fine-tuned by language exposure between 6 and 10 months, ii) ENV is more important for speech identification, whereas TFS is more important for the segregation of competing sound sources, iii) reduced ability to process ENV and/or TFS explains deficits typically associated with cochlear and central damage and ageing.

Friday 12st October

CERIMED (site La Timone, Marseille)

12:00 : Talk – 13:00 : Lunch

[Title TBA]

David Poeppel (New York University)

Save the date!

[Abstract to come]

NEW MEMBERS

The ILCB welcomes this year new members.

Permanent members:

- James GERMAN joins the LPL and the ILCB as a tenured Associate Professor.
- Isabelle DAUTRICHE will join the LPC and the ILCB in January 2019
- Bruno GIORDANO joins the team BaNCo at the INT and the ILCB as a Researcher (CNRS, CR1)

PhD Students:

- Shinji SAGET (supervisors: Thierry Artières, Pascal Belin): *Understanding the vocal brain using new deep learning approaches*
- Snežana TODOROVIC (supervisors: Elin Runnqvist, Sonja Kotz): *Learning of speech motor sequences: the role of the basal ganglia, cerebellum and medial frontal cortex*

Postdocs:

- Tara Van VIEGEN (supervisors: Benjamin Morillon, Kristof Strijkers) : *Functional role of oscillatory dynamics in motor cortex during speech perception*
- Kep Kee LOH (supervisors: Olivier Coulon, Adrien Meguerditchian) : *Nested cortical organisation models for human and non-human primate inter-species comparisons.* Application to a phylogenetic study of the primate cognitive vocal control brain network
- Akrem SELLAMI (supervisors: Sylvain Takerkart, François-Xavier Dupé, Hachem Kadri) : *Understanding brain-behavior relationships with deep multi-view regression.*

PROJECTS AWARDED

The ILCB is delighted to announce its support to the following projects:

- **Invitation of Nicolas Belkin (Rutgers University) for a Master Class and a seminar**
- **The Annual Postgraduate Workshop**
- **“Co-construction des réseaux cérébraux impliqués dans l’écriture et dans l’orthographe”** (Marieke Longcamp, Sarah Palmis, Doctorante ; Jean Luc Velay ; Bruno Nazarian ; Julien Sein ; Jean-Luc Anton ; Sonia Kandel)

DEFENSE

Joshua Snell has defended his PhD entitled **Readers are parallel processors**, and supervised by Jonathan Grainger, on September 7th. Congratulations!

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PROCHAIN APPEL À PROJETS

La prochaine échéance pour déposer des demandes de projets à l'ILCB est **dimanche 23 septembre**
[En savoir plus](#)

PROCHAIN CONSEIL DE DIRECTION

Le prochain conseil de direction se tiendra **mardi 2 octobre**.

FORMATION

2018/2019 marque un tournant pour la formation au sein de l'ILCB.

Grâce aux efforts conjoints de l'équipe pédagogiques, implantée dans 5 départements, 2 UFR et l'ILCB, **le MaSCo a officiellement ouvert ses portes à la rentrée**, avec 32 étudiants issus de diverses disciplines, et prêts à se former aux Sciences Cognitives !

Début septembre, juste avant le début du Master, **l'ILCB Summer School** a offert aux étudiants du Master, ainsi qu'à des doctorants et postdoctorants une semaine de cours intensifs dans le cadre magnifique de la Station marine d'Endoume, avec des cours en Mathématiques Appliquées, Statistiques et Réseaux, en Neurosciences et Comportement, en Langage et Cognition et en Machine Learning et Informatique. L'enthousiasme de l'équipe et des participants a fait de cet événement une réussite aussi bien d'un point de vue scientifique et pédagogique qu'humain, avec des événements sociaux, des concerts, et des baignades. Pour un aperçu de l'ambiance, visitez la [galerie photo](#) de l'école d'été.

Cet événement s'est tenu grâce aux organisateurs : Christian Benar, Benoit Favre, Adrien Meguerditchian, Magali Ochs, Philippe Blache, aux enseignants: Bernard Giusiano, Andrea Brovelli, Adrien Meguerditchian, Céline Scola, James German, Kristof Strijkers, Hachem Kadri, Sylvain Takerkart, à l'équipe administrative: Nadera Bureau, Julie Abbou et le soutien de la Station Marine d'Endoume.

Cette année également, s'ouvre le Programme Doctoral de l'ILCB, porté par Elin Runnqvist et Benjamin Morillon, qui offre un bouquet de cours et d'événements aux doctorants de l'ILCB et des écoles doctorales dans le périmètre de l'ILCB. Plus de détail bientôt.

LUNCH TALKS

Vendredi 21 Septembre

salle de séminaire [FRUMAM](#) (site Saint Charles Marseille)

12:00 : Talk – 13:00 : Déjeuner

Processing time with our auditory system

Christian Lorenzi (CNRS & Ecole normale supérieure, Paris, France)

Debate on how speech information is represented in the auditory system has revolved around the role of two neural/perceptual features encoding the temporal modulations of the acoustic signal (the “temporal envelope”, ENV, and “temporal fine structure”, TFS), their relative contribution to intelligibility and how that might be degraded by lesions to the peripheral and central auditory system.

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Vendredi 12 Octobre

CERIMED (site La Timone, Marseille)

12:00 : Talk – 13:00 : Déjeuner

[Titre à venir]

David Poeppel (New York University)

Save the date!

[Résumé à venir]

NEW MEMBERS

L'ILCB accueille cette année de nouveaux membres

Membres titulaires :

- James GERMAN rejoint le LPL et l'ILCB comme Maître de Conférences.
- Isabelle DAUTRICHE rejoindra le LPC et l'ILCB à partir de janvier 2019
- Bruno GIORDANO rejoint l'équipe BaNCo de l'INT et l'ILCB comme CR1 (CNRS)

Doctorants :

- Shinji SAGET (directeurs : Thierry Artières, Pascal Belin): *Understanding the vocal brain using new deep learning approaches*
- Snežana TODOROVIC (directeurs : Elin Runnqvist, Sonja Kotz): *Learning of speech motor sequences: the role of the basal ganglia, cerebellum and medial frontal cortex*

Postdocs :

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- Akrem SELLAMI (directeurs : Sylvain Takerkart, François-Xavier Dupé, Hachem Kadri) : *Understanding brain-behavior relationships with deep multi-view regression.*

PROJETS SOUTENUS

L'ILCB a le plaisir d'annoncer son soutien aux projets suivants :

- **Invitation de Nicolas Belkin (Rutgers University) pour une Master Class et un séminaire**
- **The Annual Postgraduate Workshop**
- **“Co-construction des réseaux cérébraux impliqués dans l'écriture et dans l'orthographe”** (Marieke Longcamp, Sarah Palmis, Doctorante ; Jean Luc Velay ; Bruno Nazarian ; Julien Sein ; Jean-Luc Anton ; Sonia Kandel)

SOUTENANCE

Joshua Snell a soutenu sa thèse : **Readers are parallel processors**, sous la direction de Jonathan Grainger, le 7 septembre. Félicitations à lui.

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