Week I:	***Latin American Summer School in Computational Neuroscience 2017***				
Time	**Monday 9**	**Tuesday 10**	**Wednesday 11**	**Thursday 12**	**Friday 13**
09:15 - 10:15	Registration and Welcome	"Sustained activity in a spiking cortical network model: mechanisms" **Antonio Roque** --C203--	"Classification of retinal ganglion cells" **María-José Escobar** --C203--	"Digital signal processing" **Matías Zañartu** --C203--	"The Variational Bayes method, a gentle introduction" **Nelson Trujillo** --C203--
10:15 - 10:45	COFFE BREAK	COFFE BREAK	COFFE BREAK	COFFE BREAK	COFFE BREAK
10:45 - 11:45	"Biophysics of neural excitability" **Patricio Orio** --C203--	"Stochastic models of ion channel activation" **Patricio Orio** --C203--	"Computing with Neural Networks" **Rubén Herzog** --C203--	"Auditory system and psychoacoustics" **Matías Zañartu** --C203--	Tutorial #5: EEG **Pavel Prado / Wael El-Deredy** --C203--
11:45 - 12:45	"Sustained activity in a spiking cortical network model: phenomenology" **Antonio Roque** --C203--	"The retina: a benchmark for brain science" **Adrián Palacios** --C203--	"The Bayesian Inference framework in a nutshell" **Nelson Trujillo** --C203--	"Learning in Spiking Neural Networks" **María-José Escobar** --C203--	Tutorial #6: EEG lab **Pavel Prado / Wael El-Deredy** --C203--
13:00 - 14:30	LUNCH	LUNCH	LUNCH	LUNCH	LUNCH
14:30 - 16:30	Tutorial #1: Python **Carolina Saavedra** **--**C203--	Tutorial #2: Neuron **Patricio Orio** --C203--	Tutorial #3: Brian **María-José Escobar** --C203--	Tutorial #4: Statistics in Science **Pedro Valencia** --C203--	Student´s Work: project presentation
16:30 - 17:00	Plenary Lecture #1: "A stochastic model for spiking neural networks: analysis and simulations" **Antonio Roque** --Auditorio Principal--	COFFEE	COFFEE	COFFEE	COFFEE
17:00 - 18:00		Student´s Work	Student´s Work	Student´s Work	Student´s Work: project presentation
18:00 - 19:00	Welcome Coctail				

Week II:	***Latin American Summer School in Computational Neuroscience 2017***				
Time	**Monday 16**	**Tuesday 17**	**Wednesdays 18**	**Thursday 19**	**Friday 20**
08:30 - 9:00			Workshop registration		
09:15 - 10:15	"Computational network models of spatial working memory" **Albert Compte**	"Stochastic integrative properties: from single neurons to the network" **Alain Destexhe**	09:00- 09:40: **Laurent Perrinet** 09:40- 10:20: **Alain Destexhe** 10:20- 11:00: **Bruno Cessac** 11:00- 11:30: Coffee Break 11:30- 12:10: **Albert Compte** 12:10- 12:50: **Tatyana Sharpee**	"Maximally informative neural codes" **Tatyana Sharpee**	"Analysis of neural feature selectivity" **Tatyana Sharpee**
10:15 - 10:45	COFFEE	COFFEE		COFFEE	COFFEE
10:45 - 11:45	"Computational network models of spatial working memory" **Albert Compte**	"Stochastic integrative properties: from single neurons to the network" **Alain Destexhe**		"Sparse optimization in neural computations" **Laurent Perrinet**	"Active inference: from Bayesian methods to dynamical neural inference" **Laurent Perrinet**
11:45 - 12:45	"Retinal waves: theoretical basis" **Bruno Cessac**	"Retinal waves: theoretical basis" **Bruno Cessac**		Tutorial #7: Network simulation **Albert Compte**	Student´s Work
13:00 - 14:30	LUNCH	LUNCH	LUNCH	LUNCH	LUNCH
14:30 - 16:30	Student´s Work	Tutorial #4: Statistics in Science **Pedro Valencia**	14:30- 15:10: **Nelson Trujillo** 15:10- 15:50: **Frédéric Alexandre** 15:50- 16:30: **Patricio Orio** 16:30- 17:00: Coffee Break 17:00- 17:40: **Wael El-Deredy**	Student´s Work	Student´s Work
16:30 - 17:00	COFFEE	COFFEE		COFFEE	COFFEE
17:00 - 18:00	Student´s Work	Student´s Work		Student´s Work	Student´s Work

Week III:	***Latin American Summer School in Computational Neuroscience 2017***				
Time	**Monday 23**	**Tuesday 24**	**Wednesdays 25**	**Thursday 26**	**Friday 27**
09:15 - 10:15	"Brain Computer Interfaces: It's all about attention! Models of visual attention and neural correlates" **Matthias Müller**	"Neuromodulation: mechanisms and functions" **Frédéric Alexandre**	"Identification of neuronal ensembles from calcium imaging recordings" **Luis Carrillo-Reid**		Student´s Presentation
10:15 - 10:45	COFFEE	COFFEE	COFFEE	COFFEE	COFFEE
10:45 - 11:45	"Simultaneous two-photon imaging and two-photon optogenetics of neuronal ensembles in awake animals" **Luis Carrillo-Reid**	"Driving BCIs with flickering lights: What do we have to know about attentional resource allocation and its consequences on steady state visual evoked potentials (SSVEPs)" **Matthias Müller**	"Attractor memory in the Hippocampus" **Emilio Kropff**	"Cortical vs Hippocampal attractors" **Emilio Kropff**	Student´s Presentation
11:45 - 12:45	"Modeling the cerebral circuits for prediction of rewards " **Frederic Alexandre**	"Detecting Brain State Dynamics and State Transitions via Hidden Markov Models I" **Wael El Deredy**	"Detecting Brain State Dynamics and State Transitions via Hidden Markov Models II" **Wael El Deredy**		
13:00 - 14:30	LUNCH	LUNCH	LUNCH	LUNCH	***LUNCH & Farewell***
14:30 - 16:30	Student´s Work	Student´s Work	Student´s Work	Student´s Work	
16:30 - 17:00	COFFEE	COFFEE	COFFEE	COFFEE	
17:00 - 18:00	"Searching for the girl on the bicycle: Neural dynamics of sustained feature-based attention in the human brain" **Matthias Muller**	"Imprinting and recalling cortical ensembles in vivo" **Luis Carrillo-Reid**	"Spatial navigation in the Hippocampus and Medial Entorhinal Cortex" **Emilio Kropff**	Student´s Work	