Tutorials: Neuroscience and AI (A204, New Chemistry Building, PKU, July 2-3, 2018)

(50 min. lecture + 10 min. break)	July 2 nd : Computational Neuroscience	July 3 rd : Artificial Neural Network based Al
9:00am – 10:00am	Brief introduction to experimental neuroscience	Artificial neural network: some historic notes
	Donggen Luo	Yuhai Tu
10:00am – 11:00am	Computational neuroscience: from molecules to	Introduction to deep learning neural network
	circuits – part I	(DLNN) – part I
	Roger Traub	Mattia Rigotti
11:00 am – 12:00 pm	Computational neuroscience: from molecules to	Introduction to deep learning neural network
	circuits – part II	(DLNN) – part II
	Roger Traub	Mattia Rigotti
<mark>12:00pm – 1:30pm</mark>	LUNCH	LUNCH
1:30pm – 2:30pm	Computational neuroscience: from molecules to	Recent developments of DLNN – part I
	circuits – part III	Surya Ganguli
	Roger Traub	
2:30pm – 3:30pm	Coarse-grained models and statistical physics	Recent developments of DLNN – part II
	approach – part I	Surya Ganguli
	Louis Tao	
3:30pm – 4:30pm	Coarse-grained models and statistical physics	Student presentations
	approach – part II	TBD (we need to work on this)
	Louis Tao	

Schedule for "Neuroscience and AI"

(101 Lecture Hall, Jinguang Life Sciences Building, PKU, July 4-6, 2018)

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July 4 th (AM)	July 5 th (AM)	July 6 th (AM)
8:30am-9:00am Opening remarks by Chao	Session III: Vision	Session V: Memory
Tang (CQB) and Fang Fang (McGovern)	Chair: Fran çois Rouyer	Chair: Glenn Turner
Chair: Donggen Luo & Yuhai Tu		
Session I: Neural computation	8:30 am9:20 am Michael Reiser	8:30 am9:20 am Misha Tsodyks
Chair: Yuhai Tu		
9:00 am– 9:50 am Roger Traub	9:20 am – 10:10 am Charles Stevens	9:20 am – 10:10 am Guoqiang Bi
9:50 am- 10:30 am Tea Break & Taking	10:10 am – 10:30 am Tea Break	10:10 am – 10:30 am Tea Break
Picture		
10:30 am – 11:20 am Dmitri Chklovskii	10:30 am – 11:20 am Tatyana Sharpee	10:30 am – 11:20 am Xiaohui Zhang
11:20 am – 12:10 am Surya Ganguli	11:20 am – 12:10 am Liangyi Chen	11:20 am – 12:10 am Yousheng Shu
12:10 PM – 1:30 PM LUNCH	12:10 PM – 1:30 PM LUNCH	12:10 PM 1:30 PM LUNCH
July 4 th (PM)	July 5 th (PM)	July 6 th (PM)
Session II: Olfaction/Audition	Session IV: Clock/Sleep	Session VI: Decision
Chair: Charles Stevens	Chair: Michael Reiser	Chair: Yousheng Shu
1:30 pm – 2:20 pm Glenn Turner	1:30 pm – 2:20 pm Ravi Allada	1:30 pm – 2:20 pm Lusha Zhu
2:20 pm – 3:10 pm Aravinthan Samuel	2:20 pm – 3:10 pm Paul Shaw	2:20 pm – 3:10 pm Mattia Rigotti
3:10 pm – 3:30 pm Tea Break	3:10 pm – 3:30 pm Tea Break	3:10 pm – 3:30 pm Tea Break
3:30 pm – 4:20 pm Xiaoqin Wang	3:30 pm 4:20 pm François Rouyer	3:30 pm 4:20 pm Ilya Nemenman
4:20 pm – 5:10 pm Yuhai Tu	4:20 pm – 5:10 pm Donggen Luo	4:20 pm – 5:10 pm Gero Miesenb čck