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Department of Medicine  
*Channing Division of Network Medicine*

## Channing Network Science Seminar

March 19 (Tuesday), 2019, 11am @ 5th-floor conference room



**Yasser Omar, Ph.D.**

University of Lisbon

### Introduction to Complex Quantum Networks

**Abstract:** In this talk, I will give a gentle introduction to quantum physics, and explain how quantum information and complex networks theory are coming together in the emergent area of complex quantum networks. I will discuss some examples, including an application to more accurate link prediction in biological networks.

**Bio:** Yasser Omar obtained his PhD in Physics at the University of Oxford. Currently, he is associate professor of the Department of Mathematics of Instituto Superior Técnico (IST), University of Lisbon, in Portugal. He is also the founder and leader of the Physics of Information and Quantum Technologies Group, at Instituto de Telecomunicações (IT), a national research lab based in Lisbon. His research interests lie in quantum information theory, quantum networks, quantum computation, and quantum thermodynamics. He co-edited the first book on Quantum Effects in Biology (Cambridge University Press, 2014). He is also the founder and director of the Doctoral Programme in the Physics and Mathematics of Information at IST, University of Lisbon, and has lead a number of international research projects related to quantum information.

Hosted by Yang-Yu Liu