

Quantitative
Eco/evo/etho
Discussions



The Dynamics Behind Birdsong Production

Friday, Dec 18
1:00 pm - 2:00 pm ET

Prof. Gabriel Mindlin



Birdsong, a rich and complex behavior, is a stellar model to understand a variety of biological problems, from motor control to learning. It also enables us to study how behavior emerges when a nervous system, a biomechanical device, and the environment interact. In this talk, I will show that many questions in the field can benefit from the approach of nonlinear dynamics, and how birdsong can inspire new directions for research in dynamics.

Gabriel Mindlin is a professor at the University of Buenos Aires, and researcher at CONICET. Prof. Mindlin graduated in physics from National University of La Plata (Argentina), and received a PhD from Drexel University (US). He was then a professor at the University of Navarra (Spain), and a research associate at the University of California, San Diego. For the last 15 years he has been the director of the Dynamical Systems Lab, where he and his colleagues study the physics and neuroscience of birdsong production. Prof. Mindlin has published 4 books, 130 papers, and has advised 18 PhD students. For more information on Prof. Mindlin's research, please see <http://www.lsd.df.uba.ar/>.

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Contact: Irina Tolkova

Email: itolkova@g.harvard.edu

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