

*This is to certify that*

**BUĞRA KADIR ARIKAN**

has successfully completed the Santa Fe Institute's Massive Open Online Course

**Nonlinear Dynamics: Mathematical and  
Computational Approaches (Spring 2023)**

[nonlinear.complexityexplorer.org](https://nonlinear.complexityexplorer.org)

May 09, 2023



Liz Bradley, Lead Instructor



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