

This is to certify that

MIKHAIL GORELKIN

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

Algorithmic Information Dynamics: A Computational
Approach to Causality and Living Systems From
Networks to Cells (2018)

[.complexityexplorer.org](http://complexityexplorer.org)

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The block contains two handwritten signatures. The first signature is a stylized, abstract scribble. The second signature is the name 'Narsis' written in a cursive script.

Hector Zenil and Narsis Kiani, Lead Instructor

A handwritten signature in cursive script, which appears to read 'David Krakauer'.

David Krakauer, Santa Fe Institute President