This is to certify that

JOHN GRAVES

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

October 09, 2018

Hector Zenil and Narsis Kiani, Lead Instructor

David Krakauer, Santa Fe Institute President