

This is to certify that

JEAN PIERRE BOLAÑOS

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

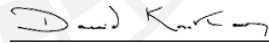
**Introduction to Agent-Based Modeling (Summer
2022)**

abm.complexityexplorer.org

August 23, 2022



Anamaria Berea, Lead Instructor



David Krakauer, Santa Fe Institute President