

*This is to certify that*

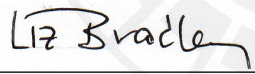
MUHAMMAD HIJAZY

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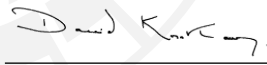
Nonlinear Dynamics: Mathematical and  
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December 15, 2018



Liz Bradley, Lead Instructor



David Krakauer, Santa Fe Institute President