



hereby recognizes that

Christopher Charles-Noriega

has attended the web course

Administering Content Using ArcGIS API for Python

1 hour and 30 minutes

Completed on December 1, 2022

A handwritten signature in black ink, reading "Jack Dangermond", positioned above a horizontal line.

Jack Dangermond, President



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Christopher Charles-Noriega

has attended the MOOC

Cartography.

6 weeks

Completed on March 16, 2021

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Jack Dangermond
President



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Spatial Data Science: The New Frontier in Analytics

6 weeks

Completed on November 22, 2022

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President, Esri



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Data Science Workflows Using ArcGIS Notebooks

2 hours

Completed on December 5, 2022

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Python Scripting for Geoprocessing Workflows

3 hours and 30 minutes

Completed on December 1, 2022

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Python Scripting for Map Automation

4 hours

Completed on November 30, 2022

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Python Scripting: Modifying Layer Properties

1 hour and 50 minutes

Completed on December 1, 2022

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Python Scripting: Repairing Data Sources

1 hour and 50 minutes

Completed on November 30, 2022

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Jack Dangermond, President