



JOHNS HOPKINS
UNIVERSITY

20.09.2020

TOMAS RICARDO BASILE
ALVAREZ

has successfully completed

The Data Scientist's Toolbox

an online non-credit course authorized by Johns Hopkins University and offered through
Coursera

Jeff Leek, PhD; Roger Peng, PhD; Brian Caffo, PhD
Department of Biostatistics
Johns Hopkins Bloomberg School of Public Health

COURSE
CERTIFICATE



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Coursera has confirmed the identity of this individual and
their participation in the course.

This certificate does not affirm that this learner was enrolled as a student at Johns Hopkins University. It does not confer a JHU grade, course credit or degree; establish a relationship between this learner and JHU; enroll or register this learner at JHU or in any course offered by JHU; or entitle this learner to access or use resources beyond the online courses provided by Coursera.



Feb 13, 2021

**TOMAS RICARDO BASILE
ALVAREZ**

has successfully completed

R Programming

an online non-credit course authorized by Johns Hopkins University and offered through
Coursera

A handwritten signature in black ink, appearing to read "Jeff Leek", written over a dotted line.

Jeff Leek, PhD; Roger Peng, PhD; Brian Caffo, PhD
Department of Biostatistics
Johns Hopkins Bloomberg School of Public Health

**COURSE
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Apr 26, 2021

**TOMAS RICARDO BASILE
ALVAREZ**

has successfully completed

Razonamiento artificial

an online non-credit course authorized by Universidad Nacional Autónoma de México
and offered through Coursera

David Rosenblueth
Investigador de Carrera Titular A
Instituto de Investigaciones en Matemáticas Aplicadas y Sistemas
Universidad Nacional Autónoma de México

Stalin Muñoz Gutiérrez
Maestro en Ciencias de la Complejidad
Centro de Ciencias de la Complejidad
Universidad Nacional Autónoma de México

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Este certificado acredita 21 horas de dedicación.



HIGHER SCHOOL OF ECONOMICS
NATIONAL RESEARCH UNIVERSITY

Jun 22, 2021

TOMAS RICARDO BASILE
ALVAREZ

has successfully completed

Discrete Math and Analyzing Social Graphs

an online non-credit course authorized by HSE University and offered through Coursera

V. Podolskii *S.L. Kuznetsov* *Ilya Schurov*

Vladimir Podolskii, Associate Professor Computer Science
Stepan Kuznetsov, Associate Professor, Computer Science
Ilya V. Schurov, Associate Professor

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