



01/14/2018

Nataliia Yehorchenkova

has successfully completed

Software Processes and Agile Practices

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

Kenny Wong

Kenny Wong
Associate Professor
Computing Science, Faculty of Science

COURSE
CERTIFICATE



Verify at coursera.org/verify/L8zT6AT3ZFF9
Coursera has confirmed the identity of this individual and their participation in the course.



COURSE
CERTIFICATE

06/19/2018

Nataliia Yehorchenkova

has successfully completed

Client Needs and Software Requirements

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



Kenny Wong

Kenny Wong
Associate Professor
Computing Science, Faculty of Science

Verify at coursera.org/verify/QBTBDRM4T46Y
Coursera has confirmed the identity of this individual and their participation in the course.



COURSE
CERTIFICATE

07/30/2018

Nataliia Yehorchenkova

has successfully completed

The Data Scientist's Toolbox

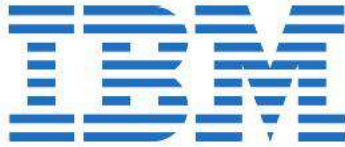
an online non-credit course authorized by Johns Hopkins University and offered through Coursera



Jeff Leek, Roger Peng, Brian Caffo

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

Verify at coursera.org/verify/FG8DECf287R3
Coursera has confirmed the identity of this individual and their participation in the course.



08/13/2018

Nataliia Yehorchenkova

has successfully completed

What is Data Science?

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

Alex Aklonis, Ph.D.
Data Scientist

Polong Lin
Data Scientist, IBM

COURSE
CERTIFICATE



Verify at coursera.org/verify/8PSaG3RZLU23
Coursera has confirmed the identity of this individual and
their participation in the course.



09/01/2018

Nataliia Yehorchenkova

has successfully completed

Open Source tools for Data Science

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

Polong Lin
Data Scientist, IBM

COURSE
CERTIFICATE



Verify at coursera.org/verify/XT8CVTHNJKMH
Coursera has confirmed the identity of this individual and
their participation in the course.



09/29/2018

Nataliia Yehorchenkova

has successfully completed

R Programming

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**



Verify at coursera.org/verify/HCEKQUACG5VR
Coursera has confirmed the identity of this individual and their participation in the course.



02/14/2019

Nataliia Yehorchenkova

has successfully completed

Getting and Cleaning Data

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**



Verify at coursera.org/verify/PTJWWTH4LNS6
Coursera has confirmed the identity of this individual and their participation in the course.



09/09/2019

Nataliia Yehorchenkova

has successfully completed

Reproducible Research

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**



Verify at coursera.org/verify/3RAVVURCLEH4
Coursera has confirmed the identity of this individual and their participation in the course.

Some online courses may draw on material from courses taught on campus but are not equivalent to on-campus courses. This certificate does not affirm that this learner was enrolled as a student at Johns Hopkins University in any way. It does not confer a JHU grade, course credit or degree; establish any relationship between this learner and JHU or other JHU affiliate; enroll or register this learner at JHU or other JHU affiliate or in any course offered by JHU; or entitle this learner to access or use the resources of JHU or other JHU affiliates beyond the online courses provided by Coursera.



01/31/2020

Nataliia Yehorchenkova

has successfully completed

Statistical Inference

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**



Verify at coursera.org/verify/3Q7DMFQ2H4LY
Coursera has confirmed the identity of this individual and their participation in the course.

Some online courses may draw on material from courses taught on campus but are not equivalent to on-campus courses. This certificate does not affirm that this learner was enrolled as a student at Johns Hopkins University in any way. It does not confer a JHU grade, course credit or degree; establish any relationship between this learner and JHU or other JHU affiliate; enroll or register this learner at JHU or other JHU affiliate or in any course offered by JHU; or entitle this learner to access or use the resources of JHU or other JHU affiliates beyond the online courses provided by Coursera.

CERTIFICATE

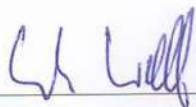
This certificate is awarded to:

NAME Natalia Yehorchenkova

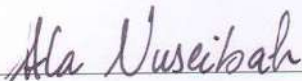
for the successful participation at the

**Kick-off workshop for the “Cross-border Research and
Competence Center on the management of Projects, Innovation
and the Digital Transformation”**

held from December, 5th – December, 8th 2018 at the Dortmund University
of Applied Sciences and Arts.



Prof. Dr. Carsten Wolff, Fachhochschule Dortmund



Ala Nuseibah, Fachhochschule Dortmund

CERTIFICATE

Fachhochschule
Dortmund

University of Applied Sciences and Arts

IDIAL Institut für die Digitalisierung von
Arbeits- und Lebenswelten

E-TEMS
2020

CERTIFICATE

is awarded to


Dr. Nataliia Yehorchenkova

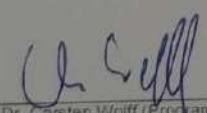
For presenting the paper titled:

*„Development of Approaches of Data Science Tools Applying
for Successful Smart City Project Management“*

at the **2020 IEEE EUROPEAN TECHNOLOGY &
ENGINEERING MANAGEMENT SUMMIT (IEEE E-TEMS 2020)**

Held from 05.03.2020 until 07.03.2020


Dr. Beverly Pasian (Conference Chair)
Utrecht University of Applied Sciences


Prof. Dr. Carsten Wolff (Programme Chair)
Dortmund University of Applied Sciences and Arts

CERTIFICATE

This certificate is awarded to

NAME: Nataliia Yehorchenkova

for participating in the

Dortmund International Research Conference 2019

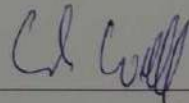
held from June, 28th – June, 29th 2019 at the Dortmund University of Applied Sciences and Arts.

The conference included the following sessions:

- LEADERSHIP AND SUSTAINABILITY 1 • LEADERSHIP AND SUSTAINABILITY 2
- DIGITAL TRANSFORMATION 1 • DIGITAL TRANSFORMATION 2
- RESEARCH METHODS AND TOOLS • PROJECT MANAGEMENT 1
- PROJECT MANAGEMENT 2 • ICT



Prof. Dr. Christian Reimann, Fachhochschule Dortmund



Prof. Dr. Carsten Wolff, Fachhochschule Dortmund

CERTIFICATE



IEEE Ukraine Section
IEEE West Ukraine
AP/ED/MTT/CPMT/S
SC Societies Joint
Chapter



National Academy of
Sciences, Ukraine



Lviv Polytechnic
National
University



Institute of Computer
Science and
Information
Technologies



Technical University
of Lodz, Poland
Institute of
Information
Technologies



Kharkiv National
University of Radio and
Electronics, Ukraine



Wyższa Szkoła
Gospodarki, Poland



Lviv
Convention
Bureau



This is to certify that

Yehorchenkova Nataliia, Yehorchenkov Oleksii

attended the XIVth International Scientific and Technical Conference
“COMPUTER SCIENCE AND INFORMATION TECHNOLOGIES”

International Workshop on Project Management

Lviv, UKRAINE, September 17 – 20, 2019

Executive Chairman

Mykola Medykovskyy
prof. Mykola Medykovskyy

IWPM Chairman

Natalya Kunanets
prof. Natalya Kunanets



Certificate of Attendance

IDAACS'2019

The IEEE 10 th International Conference on
Intelligent Data Acquisition and
Advanced Computing Systems: Technology and
Applications

ENIM (Ecole Nationale d'Ingénieurs de Metz) and
LCOMS (Laboratory of Conception, Optimisation and Modelling
of Systems), University of Lorraine, France,
September 18-21, 2019

Nataliia Yehorchenkova

Kondo H. Adjallah

**Kondo H. Adjallah,
IDAACS'2019 Co-Chairman**

Anatoliy Sachenko

**Anatoliy Sachenko,
IDAACS'2019 Co-Chairman**