

UNIVERSITÄT  
BAYREUTH

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Biology, Chemistry and Earth Sciences

# Degree Certificate

Emmanuel Damilare Adeleke

born in Lagos on 25.12.1996  
successfully completed on 01.04.2021  
the Master Examination

Global Change Ecology

with a final grade of

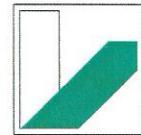
**good (1,9)**

The individual grades and information on the programme of study are included in the enclosed diploma supplement and transcript of records.

Bayreuth, 01.04.2021

signed by Univ.-Prof. Dr. Carl Beierkuhnlein  
Chair of Examiners





UNIVERSITÄT  
BAYREUTH

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Biology, Chemistry and Earth Sciences

# Diploma

The University of Bayreuth awards

Emmanuel Damilare Adeleke

born in Lagos on 25.12.1996  
having successfully completed the programme

Global Change Ecology

the academic degree of

Master of Science (M.Sc.)

Bayreuth, 01.04.2021

signed by Univ.-Prof. Dr. Matthias Breuning  
Dean



# Transcript of Records

**Emmanuel Damilare Adeleke**  
 Date of birth: 25.12.1996  
 Enrolment number: 1637470

Programme

## Global Change Ecology, Master of Science

Programme revision: 20. Dezember 2012 ÄS 07. Juni 2019  
 Credit points earned: 126 / 120  
 Grade: 1.9

Code	Title	Semester	Grade	CP	$\emptyset^1$	A <sup>2</sup>
Fak211115	<b>Global Change Ecology Overview</b>		<b>pass</b>	<b>5</b>		
	Global Change Ecology (Oa) assessed on 05.12.2018	W 2018/19	pass	1		
	Progress in Global Change Research assessed on 05.12.2018	W 2018/19	pass	2		
	Jour Fixe assessed on 10.09.2020	W 2018/19	pass	1		
	Excursion assessed on 04.05.2019	W 2018/19	pass	1		
MB	Central Module Area		1.88	55 / 55		
A	Central Module Area / Environmental Change		pass	20		
Fak211116	<b>Climate Change</b>		<b>1.7</b>	<b>5</b>		
	Natural Climate and Human Impacts on Climate assessed on 11.02.2019	W 2018/19	1.7	2	1.30	
	Climate Variability and Change: Natural and Man-Made assessed on 06.02.2019	W 2018/19	pass	3		
Fak211049	<b>Changes in Aquatic Ecosystems</b>		<b>2.3</b>	<b>5</b>		
	Hydrological Concepts assessed on 04.02.2020	W 2019/20	2.3	3	1.86	
	Water resources in a quickly changing world – impacts and challenges assessed on 10.07.2019	S 2019	pass	2		
Fak211051	<b>Changes in Agroecosystems</b>		<b>1.0</b>	<b>5</b>		
	Soil and Plant Hydrology assessed on 08.02.2019	W 2018/19	pass	2		
	Global Change and Agroecosystems assessed on 02.02.2019	W 2018/19	1.0	3	1.37	
Fak213362	<b>Biogeochemical Fluxes</b>		<b>1.4</b>	<b>5</b>		
	Transport Systems: Links and Fluxes of Energy and Matter between Atmosphere, Pedosphere and Biosphere assessed on 10.08.2019	S 2019	1.4	5	1.52	
B	Central Module Area / Ecological Change		pass	15		

<b>Fak213363</b>	<b>Biogeography and Macroecology</b>		<b>2.0</b>	<b>5</b>
	Development and Change of Biodiversity assessed on 05.02.2019	W 2018/19	pass	2
	Progress in Biogeography assessed on 28.02.2019	W 2018/19	2.0	3 1.56
<b>Fak213365</b>	<b>Spatial Ecology</b>		<b>1.7</b>	<b>5</b>
	Spatial Ecology assessed on 03.02.2020	W 2019/20	pass	2
	Modelling of Spatial Ecological Processes assessed on 16.03.2020	W 2019/20	1.7	3 1.83
<b>Fak213366</b>	<b>Global Change Impacts on Species Distributions</b>		<b>2.3</b>	<b>5</b>
	Global Change Impacts on Species Distributions assessed on 22.07.2019	S 2019	pass	2
	Global Change Impacts on Species Distributions assessed on 09.08.2019	S 2019	2.3	3 2.48
C	Central Module Area / Societal Change		pass	20
<b>Fak213369</b>	<b>Drivers and Consequences of Land Use and Land Cover Change</b>		<b>2.0</b>	<b>5</b>
	Land Use Change and Climate assessed on 09.02.2019	W 2018/19	1.7	2 1.92
	Land Use Change and Socio-Economy assessed on 05.08.2019	W 2018/19	2.3	3 1.41
<b>Fak213370</b>	<b>Ecosystem Services and Biodiversity</b>		<b>2.0</b>	<b>5</b>
	Ecosystem Services assessed on 06.02.2019	W 2018/19	2.0	2 1.64
	Current Research in Ecosystem Services and Biodiversity assessed on 20.02.2019	W 2018/19	pass	3
<b>Fak213371</b>	<b>Global Economy</b>		<b>2.3</b>	<b>5</b>
	Environmental Finance assessed on 17.07.2019	S 2019	pass	2
	Globalization of Economies and the Environment assessed on 31.08.2019	S 2019	2.3	3 1.46
<b>Fak213372</b>	<b>Global Policy and Governance</b>		<b>2.0</b>	<b>5</b>
	Economics of Global Environmental Change assessed on 14.08.2019	S 2019	pass	2
	Global change Policy, Contracts and Administrative Strategies (CBD and IPBES) assessed on 20.07.2019	S 2019	2.0	3 1.42
M	Methods		pass	11 / 10
<b>Fak213377</b>	<b>Introduction to R</b>		<b>pass</b>	<b>2</b>
	Introduction to R assessed on 29.11.2018	W 2018/19	pass	2

<b>Fak213381</b>	<b>Remote Sensing</b>		<b>pass</b>	<b>3</b>
	Remote Sensing assessed on 14.12.2018	W 2018/19	pass	3
<b>Fak210919</b>	<b>Statistical Modelling with R</b>		<b>pass</b>	<b>2</b>
	Statistical Modelling with R assessed on 07.02.2019	W 2018/19	pass	2
<b>Fak213992</b>	<b>Academic working methods and skills</b>		<b>pass</b>	<b>2</b>
	Academic Working Methods and Skills assessed on 20.12.2018	W 2018/19	pass	2
<b>Fak215158</b>	<b>Multivariate Data in Ecology</b>		<b>pass</b>	<b>2</b>
	Multivariate Analyses in Ecology assessed on 10.12.2018	W 2018/19	pass	2
<b>F</b>	<b>Free Choice Module</b>		<b>pass</b>	<b>5 / 5</b>
<b>Fak213421</b>	<b>Free Choice Module</b>		<b>pass</b>	<b>5</b>
	Concepts in Biogeographical Modelling assessed on 22.07.2019	S 2019	pass	3
	Life Cycle Assessment of Products assessed on 24.03.2020	W 2019/20	pass	2
<b>I&amp;S</b>	<b>Area I and S</b>		<b>pass</b>	<b>20 / 15</b>
<b>I</b>	<b>Area I and S / Internships</b>		<b>pass</b>	<b>10</b>
<b>Fak216435</b>	<b>Internship in Economy (lang)</b>		<b>pass</b>	<b>10</b>
	unbenoteter Kurzbericht Climate Analytics gGmbH	W 2020/21	pass	10
<b>S</b>	<b>Area I and S / International Science Schools</b>		<b>pass</b>	<b>10</b>
<b>Fak213439</b>	<b>International Science Schools (1)</b>		<b>pass</b>	<b>10</b>
	International Science School La Palma assessed on 01.07.2019	W 2018/19	pass	10
<b>Fak213394</b>	<b>Master's Thesis – Global Change Ecology</b>		<b>2.1</b>	<b>30</b>
	Wind speed predicts the non-occurrences of the Asian Tiger mosquito Aedes albopictus in Europe and limits the contribution of relevant temperature and precipitation parameters.	S 2021	2.1	30

## Additional assessments

Title	Semester	Grade	CP <sup>3</sup>	Ø <sup>1</sup> A <sup>2</sup>
Patterns of Land Use and Ecosystem Dynamics assessed on 22.02.2019	W 2018/19	3.0	3	1.76
Foundations of Biogeographical Modelling assessed on 10.06.2019	S 2019	pass	2	
Advanced Geostatistical Methods assessed on 18.07.2019	S 2019	pass	1	
Extreme Events assessed on 22.07.2019	S 2019	pass	3	

Ecological Experiments with Model Ecosystems assessed on 26.07.2019	S 2019	2.3	5	2.18
Advanced Geostatistical Methods assessed on 18.08.2019	S 2019	pass	2	
International Science School, 2 ECTS (one week) Winter School: Modelling Challenges for Mountain Ecosystems	W 2018/19	pass	2	
Modeling Ecosystem Functions with the Soil and Water Assessment Tool assessed on 31.10.2019	S 2019	pass	3	
Natural Risks and Hazards assessed on 17.11.2019	W 2019/20	3.0	2	1.62
Stability, Resilience and Inertia assessed on 01.12.2019	W 2019/20	2.3	2	1.74
Disturbance Ecology assessed on 03.02.2020	W 2019/20	pass	3	
Time Series Analysis assessed on 21.02.2020	W 2019/20	pass	2	
Time Series Analysis assessed on 21.02.2020	W 2019/20	1.7	3	1.73
Impact Assessment of Markets and Policies on Land Use and Ecosystem Services assessed on 19.03.2020	W 2019/20	pass	3	
Land Use Policies, Markets, and Ecosystems assessed on 24.04.2020	W 2019/20	pass	2	
Introduction to GIS Potential Sites for Future Wind farms in Oberbayern, Bavaria assessed on 11.05.2020	W 2019/20	pass	2	

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<sup>1</sup> Average grade of all assessments written for the given course during the given semester.

<sup>2</sup> Recognized assessment

# JOSEPH AYO BABALOLA UNIVERSITY

IKEJI ARAKEJI, NIGERIA



Emmanuel Damilare Adeleke

of

The College of Environmental Sciences

having completed the course of study approved by the University

and passed the prescribed examinations, has this day

28th July, 2016 been admitted by the Senate

to the degree of

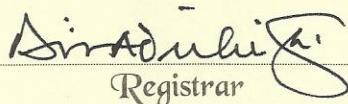
Bachelor of Science

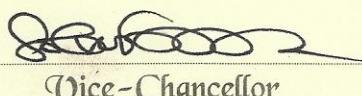
in

**Geography**

with First Class Honours



  
Registrar

  
Vice-Chancellor

# ACADEMIC TRANSCRIPT

NAME: EMMANUEL DAMILARE ADELEKE

MATRIC NO: 1205020001

MODE OF ADMISSION: UME

YEAR ADMITTED: 2012

COURSE: GEOGRAPHY

## INTERPRETATION OF GRADES:

Scores	Grade	Grade Point
70 - 100	A	5
60 - 69	B	4
50 - 59	C	3
45 - 49	D	2
40 - 44	E	1
0 - 39	F	0

COURSE CODE	COURSE TITLE	COURSE TYPE	COURSE UNIT	GRADE SCORE	GRADE POINT	CREDIT	GPA	CGPA
						POINT	POINT	POINT
100-1 First Semester								
ARC 112	ARCHITECTURE GRAPHICS AND LETTERING	C	2	B	4	8		
CSC 111	INTRODUCTION TO COMPUTER SCIENCE I	R	2	C	3	6		
ECO 113	MATHEMATICS FOR SOCIAL SCIENTISTS I	R	3	C	3	9		
ENT 111	BUSINESS INNOVATIONS AND GROWTH MANAGEMENT	ER	2	A	5	10		
GGS 111	INTRODUCTION TO EARTH SCIENCES	C	2	B	4	8		
GGS 112	MAN'S PHYSICAL ENVIRONMENT	C	2	C	3	6		
GGS 113	INTRODUCTION TO HUMAN GEOGRAPHY	C	2	B	4	8		
GGS 114	INTRODUCTION TO MAP READING	C	3	A	5	15		
GNS 111	USE OF ENGLISH 1	GR	0	B	4	0		
GNS 112	PHILOSOPHY AND LOGIC 1	GR	2	B	4	8		
LIB 111	USE OF LIBRARY	LR	1	C	3	3		
							3.86	3.86
100-2 Second Semester								
ARC 122	GRAPHIC COMMUNICATION II	R	2	C	3	6		
CSC 121	INTRODUCTION TO COMPUTER SCIENCE II	R	2	A	5	10		
ECO 121	ELEMENTS OF ECONOMIC THEORY AND PRINCIPLES	R	3	A	5	15		
ECO 123	MATHEMATICS FOR SOCIAL SCIENTISTS II	R	3	C	3	9		
ENT 121	EVALUATING OPPORTUNITIES AND DEVELOPING THE BUSINESS CONCEPT	ER	2	A	5	10		
GGS 121	INTRODUCTORY GEOLOGY	C	2	B	4	8		
GGS 122	INTRODUCTORY GEOPHYSICS	C	2	C	3	6		
GGS 123	HUMAN GEOGRAPHY II	C	2	A	5	10		
GGS 124	ELEMENTS OF CARTOGRAPHY AND STATISTICAL REPRESENTATION	C	3	A	5	15		
GNS 121	USE OF ENGLISH II	GR	0	B	4	0		
GNS 122	PHILOSOPHY AND LOGIC II	GR	2	B	4	8		
SIP 100	STUDENT INDUCTION PROGRAMME	R	0	B	4	0		
							4.22	4.05
200-1 First Semester								
CSC 211	COMPUTER PROGRAMMING I (FORTRAN)	R	3	A	5	15		
ENT 211	HISTORY OF ENTREPRENEURSHIP THOUGHT	ER	2	B	4	8		
GEO 211	SPATIAL ORGANIZATION OF SOCIETY	C	2	A	5	10		
GEO 212	INTRODUCTION TO BIOGEOGRAPHY	C	2	A	5	10		
GEO 213	POPULATION GEOGRAPHY	C	2	A	5	10		
GEO 214	QUANTITATIVE METHODS IN GEOGRAPHY	C	3	B	4	12		
GEO 215	INTRODUCTION TO GEOPHYSICS	C	2	C	3	6		
GEO 216	AIR PHOTOGRAPHIC INTERPRETATION	R	2	A	5	10		
GEO 217	GEOGRAPHIC THOUGHT THEORY	C	2	B	4	8		
POL 213	INTRODUCTION TO INTERNATIONAL RELATIONS	C	3	C	3	9		
							4.26	4.12
200-2 Second Semester								
CSC 221	COMPUTER PROGRAMMING II (PASCAL/C)	R	3	A	5	15		
ECO 221	PRINCIPLES OF ECONOMICS II	E	3	B	4	12		

COURSE CODE	COURSE TITLE	COURSE TYPE	COURSE UNIT	GRADE SCORE	GRADE POINT	CREDIT POINT	GPA	CGPA
ENT 222	NIGERIAN RESOURCES AND BUSINESS	R	2	A	5	10		
GEO 221	ELEMENTS OF REMOTE SENSING	C	2	A	5	10		
GEO 222	INTRODUCTORY METEOROLOGY	C	2	B	4	8		
GEO 223	GEOMORPHOLOGIC PROCESSES	C	2	A	5	10		
GEO 224	RESOURCES ANALYSIS AND MANAGEMENT	C	2	B	4	8		
GEO 225	POLITICAL GEOGRAPHY OF RESOURCE DISTRIBUTION	C	2	A	5	10		
GEO 226	INTRODUCTION TO SOIL GEOGRAPHY	C	2	A	5	10		
GEO 227	REGIONAL GEOGRAPHY OF WEST AFRICA	C	2	A	5	10		
SIP 200	STUDENT INDUCTION PROGRAMME	C	0	A	5	0	4.68	4.26
<b>300-1 First Semester</b>								
ECO 316	INDUSTRIAL ECONOMICS I	C	3	A	5	15		
GEO 311	REGIONAL GEOGRAPHY OF AFRICA	C	2	A	5	10		
GEO 312	FIELD AND LABORATORY TECHNIQUES IN GEOGRAPHY	C	3	A	5	15		
GEO 313	ADVANCED QUANTITATIVE TECHNIQUES IN GEOGRAPHY I	C	2	B	4	8		
GEO 314	APPLIED CLIMATOLOGY	E	2	B	4	8		
GEO 315	ECONOMIC GEOGRAPHY	E	2	A	5	10		
GEO 316	POPULATION GEOGRAPHY	E	2	A	5	10		
GEO 317	SOIL STUDIES	R	2	A	5	10		
GEO 318	GEOGRAPHIC HYDROLOGY	E	2	A	5	10		
URP 314	RURAL DEVELOPMENT PLANNING	E	2	A	5	10	4.82	4.37
<b>300-2 Second Semester</b>								
ECO 325	INDUSTRIAL ECONOMICS II	E	3	A	5	15		
GEO 124	INTRODUCTORY LAND SURVEYING	C	2	A	5	10		
GEO 321	LAND SURVEYING	C	3	A	5	15		
GEO 322	GEOGRAPHICAL METHODOLOGY	C	2	A	5	10		
GEO 323	ADVANCED QUANTITATIVE TECHNIQUES IN GEOGRAPHY II	C	2	A	5	10		
GEO 324	CARTOGRAPHIC AND RESEARCH METHODS	C	2	A	5	10		
GEO 325	FIELD COURSE IN GEOGRAPHY	C	3	A	5	15		
GEO 326	URBAN GEOGRAPHY	C	2	A	5	10		
GEO 327	BIOGEOGRAPHY	E	2	A	5	10		
GEO 328	APPLIED GEOGRAPHIC INFORMATION SYSTEM	E	2	A	5	10	5.00	4.48
<b>400-1 First Semester</b>								
GEO 411	CONTEMPORARY PHILOSOPHY AND METHODOLOGY IN GEOGRAPHY	C	3	A	5	15		
GEO 412	SYSTEMATIC STUDY OF NIGERIA	C	3	B	4	12		
GEO 413	ADVANCED CARTOGRAPHIC METHODS	C	2	A	5	10		
GEO 415	THE DEVELOPING WORLD	R	2	B	4	8		
GEO 416	WATER RESOURCES EVALUATION AND MANAGEMENT	E	2	B	4	8		
GEO 417	URBAN TRANSPORTATION	E	2	A	5	10		
GEO 419	ECOLOGY OF NATURAL RESOURCES	E	2	A	5	10		
URP 516	TOURISM PLANNING & DEVELOPMENT	E	3	A	5	15	4.63	4.50
<b>400-2 Second Semester</b>								
GEO 421	ORIGINAL RESEARCH PROJECT	C	6	A	5	30		
GEO 422	CLIMATE CHANGE	C	2	B	4	8		
GEO 423	ENVIRONMENTAL IMPACT ASSESSMENT AND SUSTAINABLE DEVELOPMENT	C	2	A	5	10		
GEO 424	THE DEVELOPED WORLD	R	2	A	5	10		
GEO 425	URBANIZATION PROCESSES AND PROBLEMS	C	2	A	5	10		
GEO 426	ECOSYSTEM CONCEPT IN RESOURCES MANAGEMENT	E	2	A	5	10		
GEO 428	DEMOGRAPHY	E	2	B	4	8		
URP 222	REGIONAL DEVELOPMENT PLANNING	E	2	A	5	10	4.80	4.53

COURSE CODE	COURSE TITLE	COURSE TYPE	COURSE UNIT	GRADE SCORE	GRADE POINT	CREDIT POINT	CGPA
<b>GRADUATING CGPA:</b> 4.53							
<b>GRADUATING CLASS:</b> 1st Class							
<b>CLASSIFICATION OF DEGREE</b>							
CGPA	CLASS						
4.50 — 5.00	1st Class						
3.50 — 4.49	2nd Class Upper						
2.40 — 3.49	2nd Class Lower						
1.50 — 2.39	3rd Class						
0.00 — 1.49	Pass						

Course Type Key:	
C	Compulsory/Core
R	Required
ER	University Required (ENT)
E	Elective
GR	University Required (GNS)
LR	University Required (LIB)



REGISTRAR

 **REGISTRAR**  
JOSEPH AYO BABALOLA UNIVERSITY  
IKEJI - ARAKEJI

# JOSEPH AYO BABALOLA UNIVERSITY

IKEJI ARAKEJI, NIGERIA



Emmanuel Damilare Adeleke

of

The College of Environmental Sciences

having completed the course of study approved by the University

and passed the prescribed examinations, has this day

28th July, 2016 been admitted by the Senate

to the degree of

Bachelor of Science

in

**Geography**

with First Class Honours



Registrar

Vice-Chancellor



Nov 15, 2020

# Emmanuel Adeleke

has successfully completed

## Introduction to Programming with MATLAB

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

### COURSE CERTIFICATE



*Akos Ledeczi*

Akos Ledeczi, Ph.D.  
Professor  
Computer Engineering, Computer Science, and  
Electrical Engineering

*J. Michael Fitzpatrick*

J. Michael Fitzpatrick, PhD  
Professor Emeritus  
Computer Science, Computer Engineering, Electrical Engineering, Neurosurgery, and Radiology

Verify at [coursera.org/verify/6AUHDDZ8VVXV](https://coursera.org/verify/6AUHDDZ8VVXV)

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



JOHNS HOPKINS  
UNIVERSITY

Oct 8, 2020

# Emmanuel Damilare Adeleke

has successfully completed

## Practical Machine Learning

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, Roger Peng, Brian Caffo".

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/UBQP7U8C5WFN](https://coursera.org/verify/UBQP7U8C5WFN)

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.



24.09.2020

## Emmanuel Damilare Adeleke

has successfully completed

### SQL for Data Science

an online non-credit course authorized by University of California, Davis and offered through Coursera

A handwritten signature in black ink that reads "Sadie St. Lawrence".

Sadie St. Lawrence  
AI Strategy Consultant for Accenture Applied Intelligence  
Founder of Women in Data (WID)  
Instructor, University of California, Davis Extension

### COURSE CERTIFICATE



Verify at [coursera.org/verify/6GBKCUU2PYW8](https://coursera.org/verify/6GBKCUU2PYW8)

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



20.09.2020

# Emmanuel Damilare Adeleke

has successfully completed

## Applied Machine Learning in Python

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

A handwritten signature in black ink that reads "KCThompson".

Kevyn Collins-Thompson  
Associate Professor  
School of Information

## COURSE CERTIFICATE



Verify at [coursera.org/verify/6E44Z6WSAH4T](https://coursera.org/verify/6E44Z6WSAH4T)

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



07/24/2020

# Emmanuel Damilare Adeleke

has successfully completed

## Introduction to Data Science in Python

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

A handwritten signature in black ink that appears to read "Christopher Brooks".

---

Christopher Brooks  
Research Assistant Professor  
School of Information

## COURSE CERTIFICATE



Verify at [coursera.org/verify/EWSJNT34C23A](https://coursera.org/verify/EWSJNT34C23A)

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



CERTIFICATE OF COMPLETION

# Adeleke Emmanuel

HAS SUCCESSFULLY COMPLETED THE COURSE

## Geospatial Analysis

---

ON OCTOBER 27, 2020

A handwritten signature in black ink that appears to read "Jessica Li".

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JESSICA LI, KAGGLE INSTRUCTOR

A handwritten signature in black ink that appears to read "Alexis Cook".

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ALEXIS COOK, HEAD OF KAGGLE LEARN



# STATEMENT OF ACCOMPLISHMENT

#15814989

HAS BEEN AWARDED TO

## Emmanuel Damilare

FOR SUCCESSFULLY COMPLETING

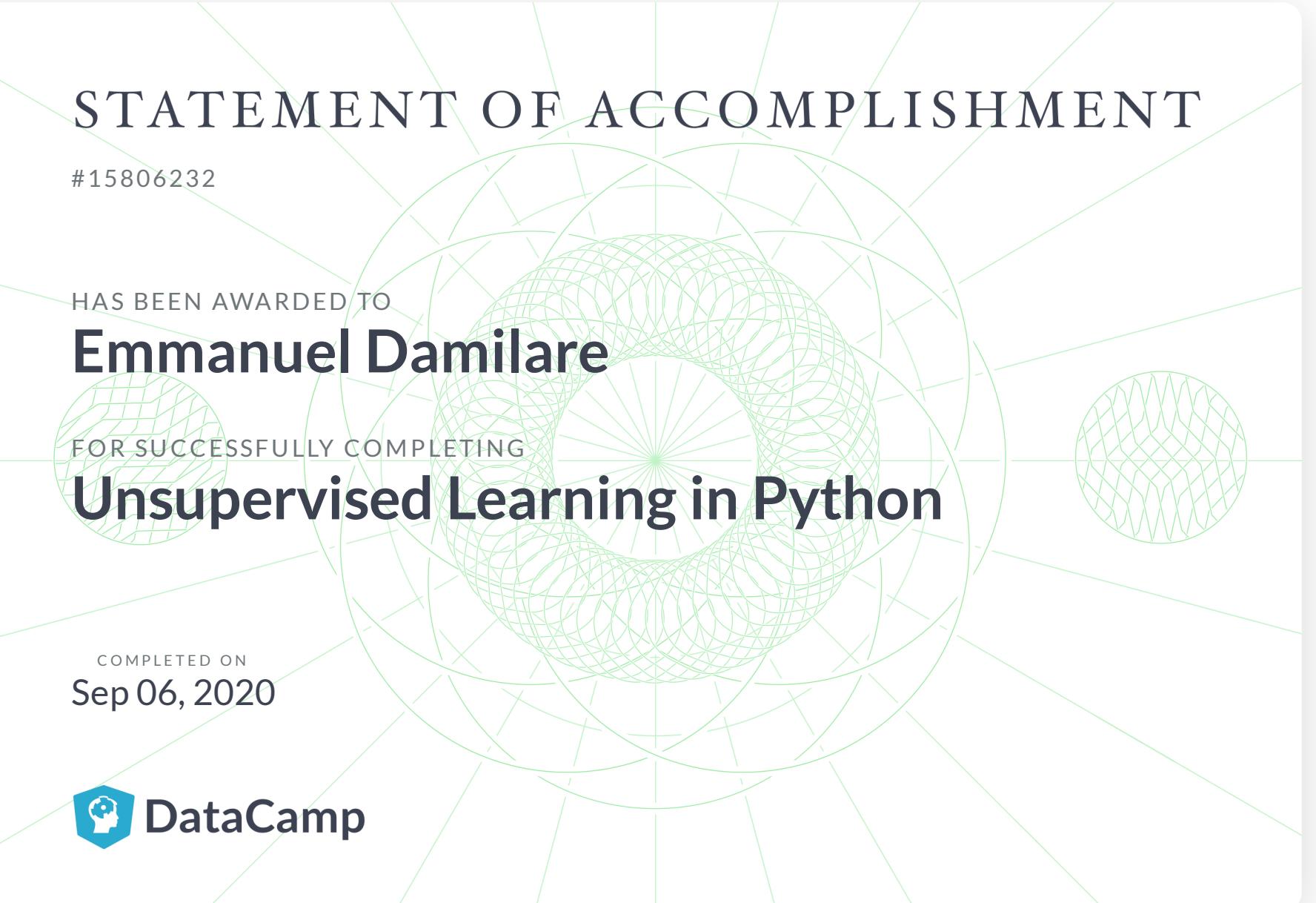
## Machine Learning with caret in R

COMPLETED ON

Sep 08, 2020



DataCamp



# STATEMENT OF ACCOMPLISHMENT

#15806232

HAS BEEN AWARDED TO

## Emmanuel Damilare

FOR SUCCESSFULLY COMPLETING

## Unsupervised Learning in Python

COMPLETED ON

Sep 06, 2020



DataCamp



# STATEMENT OF ACCOMPLISHMENT

#8801852

HAS BEEN AWARDED TO

## Emmanuel Damilare

FOR SUCCESSFULLY COMPLETING

## Writing Functions in R

COMPLETED ON

Mar 13, 2019

LENGTH

4 Hours



DataCamp



Jonathan Cornelissen, CEO



Oct 15, 2021

# EMMANUEL DAMILARE ADELEKE

has successfully completed

**C++ Basics: Selection and Iteration**

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

Anh Le  
Curriculum Developer  
Codio

Elise Deitrick, PhD  
VP of Product  
Codio

## COURSE CERTIFICATE



Verify at [coursera.org/verify/DDKJJVVL6CH5](https://coursera.org/verify/DDKJJVVL6CH5)

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



Dec 24, 2021

# EMMANUEL DAMILARE ADELEKE

has successfully completed

C++ Object Basics: Functions, Recursion, and  
Objects

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

Anh Le  
Curriculum Developer  
Codio

Elise Deitrick, PhD  
VP of Product  
Codio

## COURSE CERTIFICATE



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Nov 10, 2021

# EMMANUEL DAMILARE ADELEKE

has successfully completed

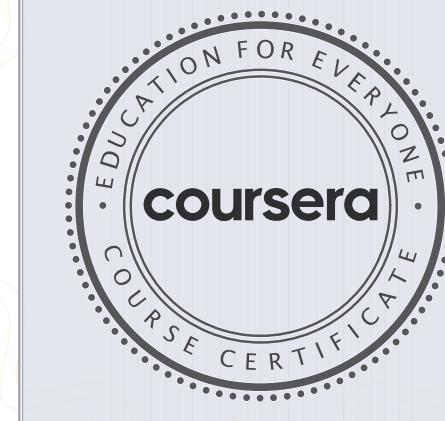
C++ Basic Structures: Vectors, Pointers, Strings,  
and Files

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

Anh Le  
Curriculum Developer  
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