Ege Ersü

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Education

The University of Edinburgh, MSc in Cognitive Science - School of Informatics — 2020- — *Edinburgh, UK*

Koç University, B.Eng in Computer Engineering — 2016 - 2020 — *Istanbul, Turkey*

Specialization: Cognitive & Brain Sciences

University of Sussex, Computer Science, Visiting Undergraduate — Spring 2020 — *Brighton, UK*

Rice University, Computer Science, Visiting Undergraduate — Fall 2018 — *Houston, TX*

American Robert College of Istanbul, Science and Math, High School — 2011-2016 — *Istanbul, Turkey*

Skills

Experienced with Python, Julia, Linux

Worked with Java, LISP, C, AWS, HTML, CSS, JavaScript

ML Packages PyTorch, Knet

Natural Languages Turkish (Native), English

Work Experience

Koç University Artificial Intelligence Laboratory — *Istanbul, Turkey*

Summer Research Assistant — *June 2019 - Aug. 2019*

- Worked with Prof. Deniz Yüret to develop the software package KnetONNX (see Projects)

Miletos Co. — *Istanbul, Turkey*

Machine Learning Intern — *June. 2018 - Jul. 2018*

- Completed Stanford's CS231n: Convolutional Neural Networks for Visual Recognition.
- Developed OCR applications using PyTorch.

Projects

KnetOnnx.jl — *Koç University*

Software Package | Github — *2019 - Present*

- Knet is the Koç University deep learning framework implemented in Julia by Deniz Yüret and collaborators.
- KnetONNX is a Julia package which reads ONNX representations of pre-trained neural networks and converts them into models in Knet that are ready for inference.
- Provides functionality to easily implement, train and export models. The long-term vision is to make KnetONNX the core neural network library of Knet.

KnetNLP — *Koç University*

Software Package | Github — *2019 - Present*

- Implementation of various NLP models and utilities for the deep learning framework Knet.

Long Short-Term Memory Networks for Machine Reading — *Koç University*

Research Project for Graduate Level Deep Learning | Github — *2018*

- Implementation of a sequence level network that is inspired by the mechanisms of human language processing. It is an extension of the vanilla Long Short-Term Memory architecture, which makes use of an additional external memory tape and a hidden tape. The LSTMN also uses neural attention to model relations among tokens.
- Experiments on Sentiment Analysis and Natural Language Inference show that the model outperforms various LSTM variations.

Optimization of Pacwar Agents using Genetic Algorithms — *Rice University*

Research Project for Graduate Level Artificial Intelligence| Github — *2018*

- Experimented with different Genetic Algorithms to design the best possible gene sequence of a PacWar mite population that would defeat the members of the opposing population.

UNIVERSITY OF SUSSEX

Official Transcript

This Diploma Supplement follows the model developed by the European Commission, Council of Europe and UNESCO/CEPES. The purpose of the supplement is to provide sufficient recognition of qualifications (diplomas, degrees, certificates etc.) It is designed to provide a description of the nature, level, context, content and status of the studies that were pursued and successfully completed by the individual named on the original qualification to which this supplement is appended. It should be free from any value judgements, equivalence statements or suggestions about recognition.

1 INFORMATION IDENTIFYING THE STUDENT

1.1 Surname:

Ersu

1.2 First name(s):

Ege

1.3 Date of birth (day/month/year):

15 December 1997

1.4 Student identification numbers:

Registration number: 21907033

2 INFORMATION IDENTIFYING THE PROGRAMME OF STUDY

2.1 Name of Study:

Visiting and Exchange Programme

2.2 School of Study:

School of Engineering and Informatics

2.3 Name of Host Institution:

University of Sussex

2.4 Name and status of institution administering studies (if different from 2.3):

2.5 Language(s) of instruction:

English

3 INFORMATION ON THE LEVEL OF STUDY

3.1 Level of study:

All Levels of Study - From Level 4 to Level 7

3.2 Official length of programme:

One Term or Two Terms or Full Year

3.3 Normal University Access requirements:

The University's standard entrance requirement for applicants aged under 21 is two A level passes or equivalent (which includes kitemarked Access courses) and a good general level of numeracy and competence in use of English, evidenced by a pass at grade C or above in relevant GCSEs, or equivalent. For applicants aged over 21 on entry, individual judgements are made about readiness for university study.

4 INFORMATION ON THE CONTENTS AND RESULTS GAINED

4.1 Mode of study:

Full-time

4.2 Programme requirements:

Please refer to information at this web address:
http://www.sussex.ac.uk/study/sabroad/guide/modules

4.3 Detail of study:

Please see next page

4.4 University Grading scheme. This is the University's normal classification scheme used for undergraduate degree programmes:

Students with 120 final stage credits

Overall Average	Classification
at least 70%	First Class Honours
at least 60%	Second Class Honours, Division I
at least 50%	Second Class Honours, Division II
at least 40%	Third Class Honours

Grades are awarded by the University of Sussex. The result of formal assessment is indicated by a numerical mark for undergraduate modules (40 representing the pass mark for all undergraduate modules and 50 for all postgraduate modules)

4.5 Overall classification of the qualification

No Classification given

5 INFORMATION ON THE FUNCTION OF THE QUALIFICATION

5.1 Access to further study:

5.2 Professional Status (if applicable):

6 ADDITIONAL INFORMATION

6.1 Home Institution Name:

Koc University

6.2 Further information sources:

http://www.sussex.ac.uk/study/sabroad

Official Transcript continued... Ege Ersu (21907033)

4.3 Detail of study (This is to certify that the student has completed the modules listed below. Marks out of 100%)

Year	Code	Module Title	FHEQ Level		Mark	Resit	Result	Notes	Sussex Credits	ECTS Credits
19/20	G6042	Acquired Intelligence & Adaptive Behaviour	IA	5	76.00		P		15.0	7.5
	G6046	Software Engineering	IA	5	82.00		P		15.0	7.5
	G6059	Operating Systems	SI	5	79.50		P		15.0	7.5
	G6061	Fundamentals of Machine Learning	IA	5	82.00		P		15.0	7.5

Date Started Programme: 22-January-2020

Date Of Completion: 15-June-2020

Notes - Key to codes used

AB = absent from assessment; XAB = condoned absence (reason accepted)

NS = non-submission (of essay, project, etc.); XNS = condoned non-submission (reason accepted)

NFA = course is not formally assessed.

COR = Course assessed by course report, no numeric grade is awarded just credit

Result P = Pass, F = Fail

** in the Resit column indicates that the course was passed at a resit attempt or a resit has been given and is awaiting a mark to be entered. Only the resit mark with the asterisk is shown,*

Attempt Type- IA = Initial Attempt, RE = Resit, SI = Sit

7 CERTIFICATION OF THE TRANSCRIPT

7.1 Date:

28 September 2020

7.2 Signature:

Transcript Certification Officer

7.4 Official stamp:

KOÇ ÜNİVERSİTESİ

Rumelifeneri Yolu
Sarıyer 34450 İstanbul
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Undergraduate Academic Record

Name: **EGE ERSÜ**
Student ID: **0059741**

Birthdate: 15/12/1997
Print Date: 03/09/2020

Degrees Awarded

Degree: Bachelor of Science
Confer Date: 06/08/2020
Plan: COMPUTER ENGINEERING

Degree: Certificate
Confer Date: 06/08/2020
Plan: COGNITIVE AND BRAIN SCIENCES

Beginning of Undergraduate Record

Fall16

Program: College of Engineering
Plan: COMPUTER ENGINEERING Major

Course	Description	Earned	ECTS	Grade	Points
ACWR. 101	BASIC ACADEMIC WRITING	3.00	6	A-	11.10
ALIS. 100	ACADEMIC AND LIFE SKILLS	1.00	2	S	0.00
COMP. 106	DISCRt MATH COMP SC ENG	3.00	6	A	12.00
COMP. 131	INTRO PRG.	3.00	6	A-	11.10
MATH. 106	CALCULUS I	3.00	6	A-	11.10
PHYS. 101	GENERAL PHYSICS I	4.00	8	B+	13.20
UNIV. 101	INTRO KOÇ UNIVERSITY	1.00	2	S	0.00

			Earned	GPA Units	Points
Term GPA	3.66	Term Totals	18.00	16.00	58.50

Spr17

Program: College of Engineering
Plan: COMPUTER ENGINEERING Major

Course	Description	Earned	ECTS	Grade	Points
ASIU. 107	LANDMARKS OF ART&ARCHT.	3.00	6	A-	11.10
COMP. 132	ADVANCED PROGRAMMING	3.00	6	A-	11.10
ECON. 100	PRINCIPLES OF ECONOMICS	3.00	6	A	12.00
MATH. 107	INTR.TO LINEAR ALGEBRA	3.00	6	B+	9.90
MATH. 203	MULTIVARIABLE CALCULUS	3.00	6	B	9.00
PSYC. 100	PSYCHOLOGY	3.00	6	B	9.00

			Earned	GPA Units	Points
Term GPA	3.45	Term Totals	18.00	18.00	62.10

Fall17

Program: College of Engineering
Plan: COMPUTER ENGINEERING Major

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Course	Description	Earned	ECTS	Grade	Points
CHEM. 103	GENERAL CHEMISTRY	4.00	6	C+	9.20
COMP. 200	STRUC&INTERP OF COMP PROG	3.00	6	A	12.00
ELEC. 204	DIGITAL DESIGN	4.00	6	B+	13.20
HUMS. 117	RATIONALITY & IRRATIONALITY	3.00	6	A	12.00
PSYC. 205	PSYC LEARN & COGN	3.00	6	A-	11.10

			Earned	GPA Units	Points
Term GPA	3.38	Term Totals	17.00	17.00	57.50
Term Honor:	Dean's Honor Roll				

Spring18

Program: College of Engineering
Plan: COMPUTER ENGINEERING Major

Course	Description	Earned	ECTS	Grade	Points
COMP. 202	DATA STRUC&ALGORITHMS	3.00	6	B+	9.90
ENGR. 200	PROB.&RANDOM VARI. ENG.	4.00	8	B-	10.80
PHIL. 131	LOGIC	3.00	6	A-	11.10
PHYS. 102	GENERAL PHYSICS II	3.00	6	C	6.00
PHYS. 102L	GENERAL PHYSICS II LAB	1.00	2	B	3.00
PSYC. 348	INTRO TO COGNITIVE SCIE.	3.00	6	A+	12.90

			Earned	GPA Units	Points
Term GPA	3.16	Term Totals	17.00	17.00	53.70
Term Honor:	Dean's Honor Roll				

Sum18

Program: College of Engineering
Plan: COMPUTER ENGINEERING Major

Course	Description	Earned	ECTS	Grade	Points
COMP. 291	SUMMER PRACTICE I	0.00	8	S	0.00

			Earned	GPA Units	Points
Term GPA	0.00	Term Totals	0.00	0.00	0.00

Spring19

Program: College of Engineering
Plan: COMPUTER ENGINEERING Major

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Name: **EGE ERSÜ**
Student ID: **0059741**

Course	Description	Earned	ECTS	Grade	Points
ACWR. 106	ACAD. WR. FOR SCI.&TECH	3.00	6	A	12.00
COMP. 304	OPERATING SYSTEMS	0.00	6	W	0.00
COMP. 305	ALGORITHMS&COMPLEXITY	3.00	6	B+	9.90
COMP. 541	DEEP LEARNING	3.00	6	A	12.00
PHIL. 438	PHILOSOPHY OF ACTION	3.00	6	A-	11.10
TURK. 100	TURKSH-SPEECH&COMPOSITION	4.00	6	C+	9.20

			Earned	GPA Units	Points
Term GPA	3.39	Term Totals	16.00	16.00	54.20

Sum19

Program: College of Engineering
Plan: COMPUTER ENGINEERING Major

Course	Description	Earned	ECTS	Grade	Points
COMP. 391	SUMMER PRACTICE II	0.00	8	S	0.00

			Earned	GPA Units	Points
Term GPA	0.00	Term Totals	0.00	0.00	0.00

Fall19

Program: College of Engineering
Plan: COMPUTER ENGINEERING Major

Course	Description	Earned	ECTS	Grade	Points
COMP. 301	PROGRAM. LANG. CONCEPTS	3.00	6	B-	8.10
COMP. 442	NAT LANG PROCESS	3.00	6	A+	12.00
COMP. 491	COMP. ENG. DESIGN I	4.00	6	B	12.00
ETHC. 105	ETHICS EVERYD LIFE	3.00	6	A	12.00
HIST. 300	HIST. OF MODERN TURKEY	4.00	8	B+	13.20
MBGE. 200	INTRODUCTORY BIOLOGY	3.00	6	D+	3.90
PHIL. 338	PHILOSOPHY OF MIND	3.00	6	A	12.00

			Earned	GPA Units	Points
Term GPA	3.18	Term Totals	23.00	23.00	73.20

Spring20

Program: College of Engineering
Plan: COMPUTER ENGINEERING Major

Course	Description	Earned	ECTS	Grade	Points
CPAP. 100	COMP PROF ASSESSMENT PROG	0.00	0	S	0.00

			Earned	GPA Units	Points
Term GPA	0.00	Term Totals	0.00	0.00	0.00

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Undergraduate Academic Record

Name: **EGE ERSÜ**
Student ID: **0059741**

Undergraduate Career Totals

		Earned	GPA Units	Points
Cum GPA	3.35	136.00	119.00	398.20

Transfer Credits

Transfer Credit from RICE UNIVERSITY
Applied Toward College of Engineering Program

Incoming Course			
COMP	330	TOOLS&MODELS FOR DATA SCIENCE	3.000 B
Transferred to Term Fall 2018 as			
TRNS	499	Transfer Credit - Undergrad	3.000 TB
Incoming Course			
COMP	425	COMPUTER SYSTEMS ARCHITECTURE	4.000 B+
Transferred to Term Fall 2018 as			
COMP	303	COMPUTER ARCHITECTURE	3.000 TB+
Incoming Course			
COMP	440	ARTIFICIAL INTELLIGENCE	4.000 A-
Transferred to Term Fall 2018 as			
COMP	341	INTRO ARTIF. INTELLIGENCE	3.000 TA-
Incoming Course			
PHIL	304	METAPHYSICS	3.000 B+
Transferred to Term Fall 2018 as			
TRNS	499	Transfer Credit - Undergrad	3.000 TB+

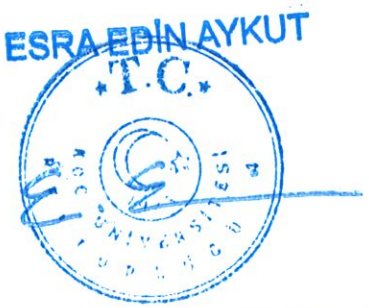
Transfer Credit from SABANCI UNIVERSITY
Applied Toward College of Engineering Program

Incoming Course			
MATH	202	DIFFERENTIAL EQUATIONS	3.000 A
Transferred to Term Summer 2020 as			
MATH	204	DIFF. EQUATIONS	3.000 T

Transfer Credit from UNIVERSITY OF SUSSEX
Applied Toward College of Engineering Program

Incoming Course			
G6	046	SOFTWARE ENGINEERING	7.000 82
Transferred to Term Spring 2020 as			
COMP	302	SOFTWARE ENG.	3.000 TA
Incoming Course			
G6	059	OPERATING SYSTEMS	7.500 47
Transferred to Term Spring 2020 as			
COMP	304	OPERATING SYSTEMS	3.000 TD+
Incoming Course			
G6	061	FNDMNTLS OF MACHINE LEARNING	7.500 82
Transferred to Term Spring 2020 as			
ENGR	421	INTRO. TO MACHINE LEARNING	3.000 TA
Incoming Course			
G6	042	ACQUIRED INTEL&ADAPTIVE BEHAV	7.500 76
Transferred to Term Spring 2020 as			
TRNS	499	Transfer Credit - Undergrad	3.000 TA-

End of Undergraduate Academic Record



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Esra Edin Aykut
Registrar's & Student Affairs Director

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