

İlknur Karadeniz

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Professional Experience

Current Position _

University of Cambridge, Theoretical and Applied Linguistics (TAL)

Nov. 2022 - PRESENT (1 year)

CAMBRIDGE, UK

Işık University, Department of Computer Engineering

Assistant Professor

Visiting Scholar

ISTANBUL, TURKEY

Feb. 2019 - PRESENT

Education _____

PhD. in Computer Engineering **Boğaziçi University**

GPA: 3.65/4.0 DoG: January 2019

ONTOLOGY BASED ENTITY TAGGING AND NORMALIZATION IN THE BIOMEDICAL DOMAIN

Advisor: Assoc. Prof. Arzucan Özgür

MS. in Computer Engineering **Istanbul Technical University**

GPA: 3.56/4.0

MORPHOLOGICAL DISAMBIGUATION IN TURKISH

DoG: June 2007

Advisor: Prof. Eşref Adalı

BS. in Computer Engineering **Yeditepe University**

GPA: 3.78/4.0

TEG-NALAN: TEMPLATE GENERATOR USING NATURAL LANGUAGE

DoG: June 2004

Advisor: Asst. Prof. Ender Özcan

Work Experience _____

Boğaziçi University Research Assistant

DEPARTMENT OF COMPUTER ENGINEERING Sep 2012 - Feb. 2019

Full time

NETAŞ Software Engineer

Feb. 2009 - Sep. 2010 TELECOMMUNICATION INDUSTRY

Full time

Istanbul Technical University Teaching Assistant

DEPARTMENT OF COMPUTER ENGINEERING Sep. 2004 - Feb. 2009

Full time

Yeditepe University Student Assistant

DEPARTMENT OF COMPUTER ENGINEERING

Part time

Sep. 2003 - Feb. 2004

Honors and Awards.

Center for Researcher and Academician Development in Information and Telecommunications Technologies PhD. Scholar

PhD Scholarship

AWARDED BY BOĞAZIÇI UNIVERSITY

2016 - 2019

B.S. Scholarship 100% YÖK Scholarship

AWARDED BY YEDITEPE UNIVERSITY

1999 - 2004

Graduated as High Honor Student

B.S.

AWARDED BY YEDITEPE UNIVERSITY

2004

Research Experience

Research Interests _

Natural Language Processing, Bioinformatics, Machine Learning, Text mining

Research Grants/Projects _____

2535 TÜBİTAK - MSRT Turkey - Iran Bilateral Cooperation Program

DEEP TRANSFER LEARNING BASED PREDICTION OF PATHOGEN-HOST PROTEIN-PROTEIN INTERACTIONS

Principal Investigator

Oct. 2020 - Jan. 2022

European Commission, FP7 Marie Curie Career Integration Grant

Researcher

CONTEXTUAL TEXT MINING FROM THE BIOMEDICAL SCIENTIFIC LITERATURE

Sep. 2012 - Nov. 2015

Principal Investigator: Assoc. Prof. Arzucan Özgür

PHITech

Research Engineer

PHISTO (PATHOGEN-HOST INTERACTION SEARCH TOOL)

Sep. 2013 - Sep. 2014

Professional Activities _

Expert Systems With Applications

2022

REVIEWER

Turkish Journal of Electrical Engineering and Computer Sciences

2020

REVIEWER

SIU - Signal Processing and Communications Applications

2020, 2021, 2022

REVIEWER

TEYDEP 2020, 2021, 2022

REFEERING/OBSERVER

Refereed International Journal Articles

Graph convolutional network based virus-human protein-protein interaction prediction for novel viruses

Journal of Computational Biology and Chemistry

KOCA, M.B, NOURANI E., ABBASOĞLU F., KARADENIZ, İ., SEVILGEN, F.E.

2022

Volume 101.

20(1), p.156.

Linking Entities through an Ontology using Word Embeddings and Syntactic Re-ranking

BMC bioinformatics

2019

KARADENIZ, İ. AND ÖZGÜR, A.

Detection and categorization of bacteria habitats using shallow linguistic analysis

BMC bioinformatics

KARADENIZ, İ. AND ÖZGÜR, A.

16.10: S5.

6.

Literature Mining and Ontology based Analysis of Host-Brucella Gene-Gene Interaction Network

Frontiers in microbiology

KARADENIZ, İ., HUR, J., HE, Y., AND ÖZGÜR, A.

2015

PHISTO: Pathogen-Host Interaction Search Tool

Bioinformatics

Durmuş Tekir, S., Çakır T., Ardıç E., Sayılırbaş A.S., Konuk G., Konuk M., Sariyer H., Uğurlu A., Karadeniz, İ., Özgür

2013

A., SEVILGEN FE.

29(10), 1357-1358.

Refereed International Conference and Workshop Papers _

Linguistically informed Machine learning Approach for Causality Identification in **Financial Documents.**

COLING 2020, (online)

ÖZENIR, G. AND KARADENIZ, İ., IN PROCEEDINGS OF THE 1ST JOINT WORKSHOP ON FINANCIAL NARRATIVE PROCESSING AND MULTILING FINANCIAL SUMMARISATION

2020

pp. 85-89.

BOUN ISIK Participation An unsupervised Approach for the Named Entity Normalization and Relation Extraction of Bacteria Biotopes.

EMNLP 2019, Hong Kong

KARADENIZ, İ., TUNA, Ö.F. AND ÖZGÜR, A., IN PROCEEDINGS OF THE 5TH WORKSHOP ON BIONLP OPEN SHARED TASKS pp. 150-157.

2019

Bacteria Biotope Detection, Ontology based Normalization, and Relation Extraction using **Syntactic Rules**

ACL 2013, Sofia

KARADENIZ, İ. AND ÖZGÜR, A., IN PROCEEDINGS OF THE BIONLP SHARED TASK 2013 WORKSHOP

2013

PHISTO A New Web Platform for Pathogen Human Interactions

Computational Methods in Systems

Biology

Durmuş Tekir S., Çakır T., Ardıç E., Karadeniz, İ., Özgür A., Sevilgen F.E., Ülgen, K. pp. 268.

Generating Java Class Skeleton Using a Natural Language Interface

NLUCS, Portugal

OZCAN, E., SEKER, S.E. AND KARADENIZ, Z.İ.

2004

pp. 126-134.

Refereed National Conferences ___

Protein Interaction Prediction on PHI Networks Using Graph Convolution Networks

SIU 2021, (online)

Koca, M.B., <u>Karadeniz, İ.</u>, Nourani, E. and Sevilgen, F.E., In 2021 29TH Signal Processing and Communications Applications Conference (SIU)

2021

(pp. 1-4), IEEE

Others _

Istanbul Technical University - Faculty of Computer and Informatics

Istanbul, Turkey

Transforming Data in the Biomedical Domain into Biologically Important Information

2022

SEMINAR

ECCB 2018 - 17th European Conference on Computational Biology

Athens, Greece

LINKING ENTITIES THROUGH AN ONTOLOGY USING WORD EMBEDDINGS AND SYNTACTIC RE-RANKING

2018

POSTER

Işık University - Faculty of Engineering

Istanbul, Turkey

Ontology-based Entity Tagging and Normalization in the Biomedical Domain

2018

SEMINAR

HIBIT 2018 - International Symposium on Health Informatics and Bioinformatics

Antalya, Turkey

ONTOLOGY-BASED NAMED ENTITY NORMALIZATION USING WORD EMBEDDINGS

2018

POSTER

Teaching Experience

Teaching Interests _____

Fundamentals of Programming, Object Oriented Programming, Information Retrieval, Graduate courses related to the research direction

Graduate Courses _

CSE 561 - Advanced Natural Language Processing

Işık University

Işık University

Fall 2019

INSTRUCTOR

CSE 586 - Information Retrieval

Spring 2019, Spring 2020, Spring 2021,

INSTRUCTOR

opring 2010, opring 2020, opring 2021,

Spring 2022

CMPE 561 - Natural Language Processing

Boğaziçi University

RESEARCH ASSISTANT

Fall 2013

Undergraduate Courses _

COMP 1112 - Object Oriented Programming

Işık University

INSTRUCTOR

Spring 2019, Spring 2020, Summer 2020, Spring 2021 **COMP 4602 - Natural Language Processing**

Işık University

INSTRUCTOR Fall 2021

COMP 1111 - Fundamentals of Programming

Işık University

INSTRUCTOR Fall 2020, Spring 2021, Fall 2021, Spring

2022

COMP 1101 - Introduction to Programming

Işık University

INSTRUCTOR Spring 2019, Fall 2019

COMP 3401 - Computer Organization

Işık University

INSTRUCTOR Fall 2019, Fall 2021

ENG 101 - Introduction to Computers

Boğaziçi University

Instructor Fall 2018

Microprocessors, Advanced Data Structures

Istanbul Technical University

TEACHING ASSISTANT 2005 - 2009

M.S. Students _

Financial Text Mining

Bahçeşehir University

GOING ON SINCE 2022 Advisor

Imran Topuz

Supervised Senior Projects _____

Capella: An Android Application as a Life Assistant

Işık University

Spring 2022 Advisor

Büşra Tekin

NoteOfTheEverything Işık University

SPRING 2021 Advisor

Anzel Öztürk and Seray Şimşek

PsiCloud: A Follow-up and Appointment Web Application for Psychologists

Işik University

PRING 2021 Advisor

Muhammed Emin Özer and Berke Adalı

An android based teaching platform Işık University

FALL 2021 Advisor

Irfan Ege Saray

A web-based tool for Covid-19 Host Protein-Protein Interaction Prediction Işık University

FALL 2020 Advisor

Berkay Yılmaz

Preprocessing Tool for Covid-19 Host Protein-Protein Interaction Prediction Işık University

FALL 2020 Advisor

Gözde Gökyokuş

Others

A Company of the Comp			
Natural Languages			
Natural Lariguages			

Turkish (Native), English (Professional), Italian (Beginner)