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## ARDA AKDEMIR

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2 Chome-2 Aomi, Koto  
City, Tokyo 135-8630

### Languages

- Japanese - Advanced,  
N1 141/180
- English - Advanced,  
TOEFL 113/120
- Turkish - Native  
Language

### Skills

- Machine Learning
- Natural Language  
Processing
- Artificial Intelligence
- Genome Sequencing
- Python, Julia  
Programming
- TensorFlow, Keras,  
PyTorch

### Profile

Enthusiastic Ph.D candidate in Computer Science interested in AI, ML, NLP and anything mathematically challenging.

Received the MEXT and JASSO Scholarships during my education.

### Experience

**NLP Researcher, Koc University; Istanbul, Turkey — June 2018 - Sept. 2019**

Information Extraction Specialist working on NLP related research for a European Union Funded Research Project (EMW-KU).

**Supervisor :** Prof.Dr. Deniz Yuret

**Google Summer of Code Student, The Julia Programming Language; Tokyo (remote) — June 2019 - August 2019**

Implemented a genome assembly package for Julia programming language.

**Mentor :** Dr. Ben Ward

### Education

**University of Tokyo, Tokyo, Japan — Ph.D in Computer Science, 2019 - 2022 (expected)**

**Research Theme :** Artificial Intelligence and Machine Learning Algorithms for Genome Analysis

**Supervisor:** Assoc. Prof. Tetsuo Shibuya.

MEXT Scholarship Student ( 1 of 10 successful candidates from Turkey

**Bogazici University, Istanbul, Turkey — M.Sc. in Computer Engineering, 2017- 2018**

Application of Deep Learning Algorithms for Natural Language Processing

**Thesis Title :** Named Entity Recognition in Turkish using Deep Learning Models and Joint Learning

GPA: 3.84/4.00

**Osaka University, Osaka, Japan — Intensive Japanese Language and Culture Program, 2015- 2016**

Intensive Japanese Language and Culture Classes in Maple Program

Closing Ceremony Representative Speaker (1 of 3 students among >200 students )

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## Publications

- Zhang, Yao-zhong, et al. "Nanopore base-calling from a perspective of instance segmentation." bioRxiv (2019): 694919. [\[link\]](#)
- Akdemir A., Güngör T. (2019) A Detailed Analysis and Improvement of Feature-Based Named Entity Recognition for Turkish. In: Salah A., Karpov A., Potapova R. (eds) Speech and Computer. SPECOM 2019. Lecture Notes in Computer Science, vol 11658. Springer, Cham [\[link\]](#)
- Akdemir, Arda, et al. "Towards generalizable place name recognition systems: analysis and enhancement of NER systems on English News from India." Proceedings of the 12th Workshop on Geographic Information Retrieval. ACM, 2018. [\[link\]](#)
- Akdemir, Arda, and Tunga Güngör. "Joint Learning of Named Entity Recognition and Dependency Parsing using Separate Datasets." [\[link\]](#)

## Conferences

- [21st SPECOM Conference](#), Turkey 2019 - Long Oral Presentation
- [27th ISMB/ECCB Conference](#), Switzerland 2019 - Poster Presentation
- [20th CICLing Conference](#), France 2019 - Poster Presentation
- [12th Workshop on Geographic Information Retrieval GIR'18](#) at ACM SIGSPATIAL 2018 - Long Oral Presentation
- [Istanbul Mathematical Sciences Center, Probability Days Conference](#) 2018 - Oral Presentation
- BYOYO Workshop, 2018 - Volunteer
- [ProtestNews Lab in CLEF](#) 2019 - Organizing Committee Member

## Books

- Introduction to Markov Chains (in Turkish), Asst.Prof.Dr. Umit Islak, M.Sc. Arda Akdemir - to be published in 2019

## Honors & Awards

- **Best Graduation Project Award** in Computer Engineering Project Title : [Adaptive Tuning of Chess Evaluation Function by Using Genetic Algorithms](#).
  - **First Prize** in Upper Level Japanese Speech Contest organized by Japanese Embassy in 2018 日本語弁論大会優勝者
  - **MEXT Scholarship Recipient**, University of Tokyo - 1 of 10 recipients from Turkey (2018 - )
  - **JASSO Scholarship Recipient**, Osaka University (2015-2016)
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