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
- Statistics
- Artificial Intelligence
- Genome Sequencing
- Python, Julia Programming
- TensorFlow, Keras, PyTorch

Profile

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 (15 months)

Information Extraction Specialist working on NLP related research for a European Union Funded Research Project (EMW-KU). My work is presented in GIR'2018 as a l long presentation.

Supervisor : Prof.Dr. Deniz Yuret

2019 Google Summer of Code Student, The Julia Programming Language

Implemented a genome assembly package for Julia programming language. Successfully passed all three evaluations.(github link)

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, Sep. 2017- Dec. 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)

Publications

- Zhang, Yao-zhong, et al. "Nanopore base-calling from a perspective of instance segmentation." bioRxiv (2019): 694919. [link] (in revision for BMC Genomics GIW)

- 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]

- Hürriyetoğlu, A., Yörük, E., Yüret, D., Yoltar, Ç., Gürel, B., Duruşan, F., ... & Akdemir, A. (2019, September). Overview of CLEF 2019 lab ProtestNews: extracting protests from news in a cross-context setting. In *International Conference of the Cross-Language Evaluation Forum for European Languages* (pp. 425-432). Springer, Cham.

- Akdemir, Arda, and Tunga Güngör. "Joint Learning of Named Entity Recognition and Dependency Parsing using Separate Datasets.", CICLing, 2019 [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, "Named Entity Recognition in Turkish using Deep Learning Models and Joint Learning." Master's Thesis, Bogazici University, 2018.

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, Bogazici University 2017. 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)