Gökçe Uludoğan

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Researcher, Understanding the Language of Life: Identifying and Characterizing the Language Units in **EXPERIENCE** Protein Sequences (ERC-funded) Nov 2023–Present • Developing protein function predictors by leveraging state-of-the-art protein language models and graph neural networks. Researcher, Utilizing Digital Technology for Social Cohesion (EuropeAid/170389/DD/ACT/Multi) Jun 2023-Present • Compiling datasets for Turkish hate speech in social and print media, benchmarking and developing new state-of-the-art Turkish hate speech detection models. **Teaching Assistant**, Department of Computer Engineering, Bogazici University Feb 2019–Present · Providing academic support, developing teaching materials, and conducting evaluations across a diverse range of courses, including database systems, information retrieval, systems programming, computer organization, and bioinformatics. Researcher, Chemical Language Processing for Target-based Drug Design Apr 2020-Oct 2023 • Conducted research on molecular representation learning and developed novel methods for targeted drug design, funded by The Scientific and Technological Research Council of Turkey (TÜBİTAK) with grant number 119E133. **EDUCATION** Ph.D. in Computer Engineering, Bogazici University (exp.) 2026 M.S. in Computer Engineering, Bogazici University 2021 B.S. in Computer Engineering, Bogazici University 2018 [1] G. Uludogan, Z. Yirmibesoglu Balal, F. Akkurt, M. Turker, O. Gungor and S. Uskurdarli. TURNA: SELECTED PUBLICATIONS A Turkish Encoder-Decoder Language Model for Enhanced Understanding and Generation. In: arXiv preprint, arXiv:2401.14373, 2024. [2] G. Uludogan, S. Dehghan, Inanc Arin, E. Erol, B. Yanikoglu, A. Özgür. Overview of the Hate Speech Detection in Turkish and Arabic Tweets (HSD-2Lang) Shared Task at CASE 2024. In: Proceedings of the 7th Workshop on Challenges and Applications of Automated Extraction of Sociopolitical Events from Text (CASE 2024), p229-233, 2024 [3] A. B. Temizer, G. Uludogan, R. Ozcelik, T. Koulani, E. Ozkirimli, K. O. Ulgen, N. Karali and A. Ozgur. Exploring Data-Driven Chemical SMILES Tokenization Approaches to Identify Key Protein-Ligand Binding Moieties. In: Molecular Informatics, 2024. doi: 10.1002/minf.202300249 [4] G. Uludogan, E. Ozkirimli, K. O. Ulgen, N. Karali and A. Ozgur. Exploiting pretrained biochemical language models for targeted drug design. In: *Bioinformatics*, 38(Supplement_2), ii155-ii161, 2022. doi: 10.1093/bioinformatics/btac482 **SERVICES Voluntary Experience** • The 18th Conference of the European Chapter of the Association for Computational Linguistics (EACL 2024) • The 31st Annual Intelligent Systems For Molecular Biology and the 22nd Annual European Conference on Computational Biology (ISMB/ECCB 2023) 27th Annual International Conference on Research in Computational Molecular Biology (RECOMB 2023)• 17th Women in Machine Learning Workshop (WiML 2022)