Begench Hangeldiyev

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EDUCATION

Korea Advanced Institute of Science and Technology (KAIST) August 2020 – Present B.Sc. in Computer Science (Minor: Chemical & Biomolecular Engineering) Daejeon, South Korea RESEARCH EXPERIENCE June 2022 – Present **Research Intern** Institute for Basic Science (IBS), Data Science Group Daejeon, South Korea • Proposed new antibody-specific models for protein sequence design using graph attentive neural networks. Proposed novel loss functions for protein sequence design given antibody-specific characteristics. · Supporting the development an AI-based framework for antigen-conditioned antibody design. **Research Intern** April 2022 – June 2022 KAIST, Neuro-Machine Augmented Intelligence Laboratory (NMAIL) Daejeon, South Korea • Collaborated on the development of a deep learning model capable of operating with a wide range of robot grippers enabling the manipulation of objects with different shapes. **PROJECTS** Neural Radiance Fields | Python Fall 2023 Korea Advanced Institute of Science and Technology(KAIST) PointNet Model | Python Fall 2023 Korea Advanced Institute of Science and Technology(KAIST) CUDA Implementation of Convolutional Layers | Python, C, CUDA Fall 2023 Korea Advanced Institute of Science and Technology(KAIST) **Neural Machine Translation** | *Python* Spring 2022 Korea Advanced Institute of Science and Technology(KAIST) **Semantic Segmentation** | *Python* Spring 2022 Korea Advanced Institute of Science and Technology(KAIST) **PUBLICATIONS** [1] B. Hangeldiyev, A. Rzayev, A. Armanuly, L. F. Vecchietti, M. Cha*, H. Kim*, "Antibody Sequence Design With Graph-Based Deep Learning Methods" presented at the Korea Software Congress (KSC), Jeju, South Korea, 2022.

HONORS AND AWARDS

Gold Medal in National Chemistry Olympiad, 2019, Turkmenistan Gold Medal in Amity International Chemistry Olympiad, 2019, New Delhi, India Bronze Medal in National Chemistry Olympiad, 2020, Turkmenistan

SKILLS

Languages: Turkmen (Native), English (Fluent), Turkish, Russia,

Programming Languages: Python, JavaScript, Scala, C, CUDA, Java, HTML5, CSS **Python libraries (Deep Learning, Data Science)**: PyTorch, Numpy, Pandas, Scikit-learn

Web Programming: ReactJS, HTML5, CSS