

Begench Hangeldiyev

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<https://begench-han.github.io/>

EDUCATION

Korea Advanced Institute of Science and Technology (KAIST) B.Sc. in Computer Science (<i>Minor: Chemical & Biomolecular Engineering</i>)	August 2020 – Present Daejeon, South Korea
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RESEARCH EXPERIENCE

Research Intern Institute for Basic Science (IBS), <i>Data Science Group</i> <ul style="list-style-type: none">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 of an AI-based framework for antigen-conditioned antibody design.	June 2022 – Present Daejeon, South Korea
Research Intern KAIST, <i>Neuro-Machine Augmented Intelligence Laboratory (NMAIL)</i> <ul style="list-style-type: none">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.	April 2022 – June 2022 Daejeon, South Korea

PROJECTS

Neural Radiance Fields <i>Python</i> Korea Advanced Institute of Science and Technology(KAIST)	Fall 2023
PointNet Model <i>Python</i> Korea Advanced Institute of Science and Technology(KAIST)	Fall 2023
CUDA Implementation of Convolutional Layers <i>Python, C, CUDA</i> Korea Advanced Institute of Science and Technology(KAIST)	Fall 2023
Neural Machine Translation <i>Python</i> Korea Advanced Institute of Science and Technology(KAIST)	Spring 2022
Semantic Segmentation <i>Python</i> Korea Advanced Institute of Science and Technology(KAIST)	Spring 2022

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, Russian
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