

Bareket Kruger - CV

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Education

2021-2024

B.Sc. in Brain Sciences, Bar Ilan University

Extended track, biology specialization

Grade average of 97.2

Extra course: introduction to electrical engineering (99)

2014-2019

Full high school diploma, Ulpanat Kfar Pines

Grade average of 117.2

Research Experience

2023-2024

Undergraduate level projects in the Spatial Genomics Laboratory of Dr. Shahar Alon, Neuroengineering Bar Ilan

- *Applied Illumina sequencing techniques following Expansion Sequencing protocols to map RNA molecules at a nanoscale resolution within subcellular compartments of brain organoids*
- *Ran image processing analyses to segment cancer cells and immune system cells, and improved the accuracy of cell segmentation*

2023

Summer program in the single molecule dynamics Laboratory of Prof. Gilad Haran, Weizmann Institute

The research aimed to develop 3-color single-molecule FRET spectroscopy technique to understand the allosteric aspects of clpB when binding to his substrate casein. My work included running 2-color FRET experiments in different conditions and results analysis.

2023

Undergraduate level research in The Multisensory Processing Laboratory of Prof. Adam Zaidel, Gonda Brain Research Center, Bar Ilan

responsible for training rats in a multisensory behavioral paradigm

Awards and Scholarships

2024

Ekard Research School of Biological Science excellence prize, Weizmann Institute

2022

The Faculty of Neuroscience Dean's award for outstanding achievements

Grade average: 97.9

2022- 2024

"Ilanot" scholarship for excellence, Bar Ilan university

Full scholarship

2021- 2024

"V1" scholarship for excellence in neuroscience, The Gonda brain research center

Including Poster presentation at the "Gonda brain science" conference

2019

Certificate of Excellence, Ministry of Education

Teaching Experience

2023

Math teacher at Gymnasia high school, Jerusalem

2022-2023

Math teacher at the program for talented youth in mathematics, The Israeli Center for the Advancement of Mathematical Sciences

Additional Information

2024

Founder of the project for helping Miluim (reserved) students

Founded and currently managing a program that assists drafted Bar Ilan neuroscience students in their studies

2014-2023

Tutor at "The way of the sea", association for adults on the autistic spectrum