

Diana Kazharova

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Summary

A highly motivated biochemistry student with a strong academic background and extensive, hands-on lab experience. Ready to take on challenges and eager to apply my skills and passion in a professional setting.

Experience

- 08/2024 - 10/2024 **National Heart & Lung Institute, Cardiovascular Science Division** London, UK
Research Assistant
Working on a project exploring the role of IL11-induced miR-27b-5p and miR-497-5p in cardiac hypertrophy. Developed expertise in:
- RNA extraction from cardiomyocytes ensuring high sample quality
 - Synthesis of cDNA from the samples for gene expression studies
 - Conducting qPCR for expression analysis and interpreting the results using $\Delta\Delta C_t$ method
 - Transfection procedure to deliver miR mimics/inhibitors into target cells
 - Immunohistochemistry staining for visual assessment of hypertrophy levels in cardiomyocytes
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- 07/2023 - 09/2023 **Champalimaud Foundation**, Lisbon, Portugal
Research assistant
As a part of immunophysiology group studying neuro-immune interactions between neurons and lung ILC2s in mice. Developed expertise in:
- Immunohistochemistry staining
 - Standard mice procedure, including dissection, nasal injection, perfusion, etc.
 - Bone marrow transplantation procedure in mice
 - Confocal microscopy
 - Cell culture work
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- 10/2024 **iGEM 2024 Grand Jamboree**, Paris, France
Volunteer
- Engaged with global experts and emerging leaders in synthetic biology
 - Broadened perspectives on ethical and transformative applications of synthetic biology through event panels
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- 11/2022 - 05/2023 **Climate Entrepreneurs Club**, London, UK
EcoElevate co-founder
Working in a team of three on a start-up aiming to replace conventional carbon capture methods involving rare earth metals with a new technology involving HDCR (hydrogen-dependent carbon dioxide reductase) enzyme from *Acetobacterium woodii*.
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- 08/2020 - 09/2020 **Vavilov Institute of General Genetics, Russian Academy of Sciences** Moscow, Russia
Research Assistant
Working on a project focusing on mitochondrial genome sequencing and evolutionary analysis of *Turritopsis dohrnii*, first metazoan described that can reverse its life cycle.
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- ## Education
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- 09/2022 - present **Imperial College London**, London, UK
BSc Biochemistry, (First Class Honors, Year 2)
Modules covered: Biological Chemistry, Cell Biology, Enzymes & Metabolism, Genes & Genomics, Structural Biology, Integrative Cell Biology, Protein Science, Bioinformatics, Programming & Statistics, Computational 'Omics, Bacterial Molecular Machines.
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- 09/2020 - 06/2022 **Brighton College**, Brighton, UK
A-levels: 5A*s in Chemistry, Physics, Mathematics, Further Mathematics, Russian.
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- 09/2019 - 07/2020 **Sherborne International College**, Sherborne, UK
GCSEs: all 9s.
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- 09/2010 - 06/2019 **Gymnasium No. 1514**, Moscow, Russia
Graduated with high honors.

Other Commitments

- 05/2023 – present **Gymnasium No1, London, UK**
Teaching assistant
Actively involved at a Saturday school for Russian-speaking children, where I work with a diverse group of 9-year-olds.
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- 08/2024 **Mechanobiology Satellite Symposium @ Imperial College London, London, UK**
Coordination team
Assisted in a successful organization of a symposium focused on mechanobiology, where I was responsible for allocation, registration, and event coordination. Collaborated with team members to ensure seamless logistics and provide a productive environment for networking.
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- 09/2022 – present **Biochemistry Year Academic Representative @ Imperial College London, London, UK**
Actively serve as the year representative for my biochemistry cohort, facilitating communication between students and faculty. Regularly attend meetings and assist my peers by answering questions and providing support, fostering a collaborative environment.
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- 09/2024 – present **Russian Speaking Society @ Imperial College London, London, UK**
Secretary
Responsible for organizing cultural events, managing communications, and fostering a welcoming environment for the Russian-speakers at the university.

Skillset

- English – fluent, Russian – native
- Python, Excel – proficient