**E-mail**
kilieva@mmcbg.org

## Working with software:

Python
93%

R
96%

Matlab
87%

NanoScope
Analysis
97%

Asylum
Research
MFP3D 92%

Gwyddion
95%

IBM SPSS
92%

ImageJ
91%

Solid Edge
89%

**Office Software** (MS / Open / Libre / WPS)

MS Word
96%

MS Excel
95%

MS PowerPoint
91%

Adobe
Photoshop
80%

Adobe
InDesign
76%

# Krasimira Rusinova-Ilieva

Krasimira Rusinova-Ilieva is a full-time PhD student at the Medical University of Sofia, Department of *Medical Chemistry and Biochemistry*, working on the dissertation topic "Multi-omics Studies of Solid Tumors." Her research focuses on the multi-omics analysis of solid tumors, aiming to identify both the genetic factors associated with hereditary oncological diseases in patients and the specific genetic and epigenetic signatures related to the mechanisms of oncogenesis, tumor progression, and the effects and contributions of external and internal factors in common solid tumors.

The multi-omics approach is an innovative strategy in biomedical research that combines data from different molecular levels — genomics, epigenomics, transcriptomics, proteomics, and metabolomics — to provide a comprehensive understanding of biological processes and the pathogenesis of diseases.

She graduated with a Master's degree in Microelectronics and Information Technologies from the Faculty of Physics at Sofia University "St. Kliment Ohridski." After graduation, she worked as a chemist and atomic force microscope (AFM) operator (Bruker Dimension Icon) at the Institute of Polymers, Bulgarian Academy of Sciences.

In 2018, she completed a course in Business Model Digital Transformation Training at the Center for Training and Innovation, Sofia University "St. Kliment Ohridski." In 2021, she completed the course Elements of AI at Sofia University St. Kliment Ohridski and the University of Helsinki. In 2025, she completed the "7.03.1x: Genetics: The Fundamentals" course at the Massachusetts Institute of Technology (MIT), followed by a lecture seminar at the Institute of Molecular Biology, BAS, titled *"From Zero to One: Introduction to Programming with Python"* — focused on image analysis and DNA sequence comparison.

She is the author of the book *"Introduction to Atomic Force Microscopy: A Brief Guide to Working with AFM Instruments MFP-3D Origin and Dimension Icon"* (2024).