



Multiple Ph.D. and postdoctoral positions in data science in cell imaging

Multiple fully funded positions are immediately available for computational postdocs/Ph.D. students in Assaf Zaritsky's [lab of computational cell dynamics](#) at Ben-Gurion University of the Negev (BGU). The research in our lab, established Oct. 2018, is at the interface of computer science and cell biology. We develop and apply a broad range of computational methods to produce biological insights along with specialized analytic tools that reveal hidden patterns in complex cell imaging data. The main research themes in the lab are multicellular organization and information processing and visual interpretability of deep learning models applied to cell imaging. This type of interdisciplinary research is made possible by close cooperation with experimental cell biologists all around the globe and is exciting and synergistically rewarding. The lab is affiliated with the Department of Software and Information Systems engineering, an applied computer science department with research spanning from machine learning, data science, cyber security and biomedical informatics.

Excellent candidates with a solid background in computer science or similar fields will be considered. Previous knowledge and/or experience in computer vision/image analysis, machine learning, microscopy and cell biology is an advantage. Start date is flexible, with preference to an early start, even remotely.

Interested applicants should send a CV and a brief cover letter (please indicate explicitly why you are interested in the research and how your background provides a good fit). Feel free to contact Assaf (assafzar@gmail.com) with any question.

Related reading:

- ["Dry" cell biology Essay \(2016\)](#)
- [Data science in cell imaging Perspective \(2021\)](#)
- [Interpretable AI for bioimaging Comment \(2024\)](#)
- [In silico labeling Review \(2024\)](#)

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The image shows a group photo of the lab members, with the Ben-Gurion University of the Negev logo at the top. Below the photo are logos for various funding organizations: GIF, leap, M, wellcome, BSF, Rosetrees Trust, and the Israel Ministry of Science & Technology.