

## Postdoctoral Fellowship Opportunity at Bar-Ilan university

**Position:** Postdoctoral Researcher  
**Location:** Bar-Ilan University, Ramat Gan  
(Center district, near Tel Aviv), Israel  
**Division:** Department of Physics

Dr. Hanan Herzig Sheinfux  
Department of Physics  
lightmatterinteractions@gmail.com

**About the Lab:** We are a new group working on topics at the forefront of quantum (2D) material research, especially the physics at extreme and strange regimes of quantum light-matter interaction. Imagine for example what would happen if we could compress light to such a degree that a single photon could have the same amplitude as a high-power ultrafast laser pulse. Sounds far fetched? We have experimentally shown that it can be done. A postdoc researcher position is now open to research questions such how electronic transport is influenced by these extreme high-powered photons, as well as other novel ideas in electronic transport or nanophotonics.

### Why Join Us?

A unique opportunity - we are a new group and the topics we are looking into are the exciting “golden ideas” that our labs was built to measure. The work is interdisciplinary work, combining techniques and concepts from very different fields and a wide variety of skills and you will have ample opportunity to learn.

We believe that doing exceptional work requires exceptional support. That includes an emphasis on:

1. Good group atmosphere and relations. 2. State-of-the-art facilities and equipment 3. Strong mentorship by the group leader (and in turn, by you to the students you will co-supervise) 4. Room for independence.

### Ideal Candidates:

Motivated individuals with a PhD in physics or related fields. A passion for science and learning is a must, technical experience with 2D materials, nano fabrication, transport measurements or optics is advantageous. Also important, is the willingness to think outside of the box (or interest in learning how to be more creative) and good communication skills.

**Application Process:** For more details, please reach out to Hanan Herzig Sheinfux via email at [lightmatterinteractions@gmail.com](mailto:lightmatterinteractions@gmail.com).

Feel free to share this opportunity with anyone who might be interested.

### Apply by September 15, 2024 for Fulbright funding:

- Stipend: \$95,000 (\$47,500 per academic year for two years)
- Reimbursement of up to \$1,700 for airfare expenses for Fulbright fellows (and spouses)
- Partial reimbursement of children’s education expenses and fees
- Relocation support of up to \$9,000 provided by Bar-Ilan University

For More information: [USprograms@fulbright.org.il](mailto:USprograms@fulbright.org.il)