

## **Postdoctoral research scientist in computational microbiome analysis, modeling and inference, Columbia University Medical Center**

The Korem Lab (<https://koremlab.science>) aims to obtain a mechanistic and actionable understanding of the microbiome's role in human health and disease, using machine learning, metabolic modeling, and network inference. As part of the Program for Mathematical Genomics and the Departments of Systems Biology and Ob/Gyn, we operate in an engaging and multi-disciplinary environment consisting of computational biologists, applied mathematicians, statisticians, physicists, and physicians. Working at the intersection between computational biology and medicine, the lab develops algorithms and computational methods that aim to understand microbial growth, activity, and metabolite production, and proceeds to apply these methodologies as the basis for clinical inquiries in diverse settings.

**We are seeking a talented and motivated postdoctoral researcher** who is looking to work in a creative and collaborative environment on new algorithmic approaches for inferring the activity and dynamics of the human microbiome and other microbial communities.

### Qualifications include:

- Ph.D. in any quantitative science (statistics, computer science, physics or similar fields) or in life sciences with a strong computational background. You will acquire any missing domain or biological knowledge with us.
- Experience with assembly algorithms, flux balance analysis, or network inference is valued but not required.
- Excellent communication and organizational skills.

**For inquiries**, please contact [tk2829@cumc.columbia.edu](mailto:tk2829@cumc.columbia.edu).

Columbia University is an affirmative action/equal opportunity employer and encourages applications from women and underrepresented minorities.