

Evolutionary and anthropological genomics postdoctoral
associate

University at Buffalo, The State University of New York

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Job Title	Evolutionary and anthropological genomics postdoctoral associate
Department	Biological Sciences
Institution	University at Buffalo, The State University of New York Buffalo, New York
Date Posted	Apr. 27, 2021
Application Deadline	Open until filled
Position Start Date	Available immediately
Job Categories	Post-Doc
Academic Field(s)	Biology - Computational Biology - Genetics Biology - Developmental/Evolutionary Biology - General
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Job Description

The Department of Biological Sciences in the College of Arts and Sciences at the University at Buffalo is seeking an Evolutionary and Anthropological Genomics Postdoctoral Associate.

The Buffalo Evolutionary and Anthropological Genomics Laboratory (<https://gokcumenlab.org>) currently focuses on studying fundamental questions about human nature and diversity using high-throughput biological approaches and computational tools. We are particularly interested in the functional and evolutionary effects of genomic structural variants (SVs) (e.g., differences in copy number) of large segments of DNA between individuals. We believe that SVs represent a huge and unexplored area of evolutionary genomics. Within this framework, we are currently working on three broad areas:

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- (1) Investigating salivary proteome evolution in mammals as a framework to elucidate the mechanisms of functional change involving genomic structural variation
- (2) Leveraging archaic hominin genomes to determine the origins and evolutionary impact of ancient genomic structural variants in the human lineage
- (3) Experimental investigation of the functional effect of evolutionarily relevant structural variants using mouse models

Our laboratory has both wet and dry lab components. We routinely generate and integrate multiple high-throughput biological data, including long- and short-read sequencing of DNA and RNA, proteomics, and digital PCR validations. We also have targeted experimental projects, using genetically modified mice and other models of evolution.

In this role:

- . You will conduct evolutionary genomics analyses - including genome assembly and population genetics research.
- . The research involves wet lab experiments, sample management, and bioinformatic analysis under the supervision of Dr. Gokcumen.
- . You will be expected to work collaboratively, especially with Dr. Ruhl's laboratory in Oral Biology.

The successful candidates will have a chance to work with large genomic datasets involving multiple primates/mammalian species, as well as utilize state-of-the-art DNA/RNA quantification technologies, such as digital PCR. We have ongoing collaborations with researchers from anthropology, population genetics, evolutionary and molecular biology, cancer genetics, and immunology. Our research team is diverse and multidisciplinary. We are interested in recruiting from different backgrounds to continue this tradition.

The candidate should have a Ph.D. (or MD) preferably in population genetics, evolutionary biology, computational biology, bioinformatics, or anthropological genomics. Experience in handling large datasets (e.g., experience genome-wide sequencing data), programming and scripting (e.g., Python, R), and familiarity with UNIX/LINUX operating environments is preferred.

If you are interested, please submit your CV, names of three references, and a brief (no more than 1-page) cover letter outlining research interests and career goals. Applications will be accepted until the position is filled.

As an Equal Opportunity / Affirmative Action employer, the Research Foundation will not discriminate in its employment practices due to an applicant's race, color, religion, sex, sexual orientation, gender identity, national origin and veteran or disability status.



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Contact Information

Please reference Academickeys in your cover letter when
applying for or inquiring about this job announcement.

Contact

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