

Phylodynamics Summer Internships

Join Phylodynamics summer internships to explore the intersection of evolutionary biology and epidemiology, focusing on the use of genetic data to study the spread of infectious diseases, viral evolution, and the impact of population dynamics on pathogen transmission.

Focussed Areas under Phylodynamics Summer Internship

1. Genetic analysis of pathogen transmission
2. Viral evolution and epidemic spread
3. Phylogenetic methods in epidemiology
4. Molecular epidemiology of infectious diseases
5. Population dynamics and pathogen evolution
6. Next-generation sequencing in phylodynamics
7. Modeling pathogen spread using genetic data
8. Viral recombination and mutation rates
9. Applications of bioinformatics in phylodynamics
10. Phylodynamic analysis of zoonotic diseases
11. Host-pathogen co-evolution studies
12. Phylodynamics in tracking drug-resistant pathogens
13. Epidemic forecasting using phylodynamic models
14. Genomic surveillance of emerging pathogens
15. Phylodynamic approaches to vaccine development
16. Phylodynamics in HIV and other viral infections
17. Metagenomics in phylodynamic research
18. Phylodynamics of vector-borne diseases
19. Temporal dynamics of pathogen transmission
20. Applications of machine learning in phylodynamics

Protocols Covered across various focussed areas under Phylodynamics Summer Internship

1. Phylogenetic analysis protocols for tracking disease transmission
2. Next-generation sequencing for pathogen evolution studies
3. Bioinformatics tools for phylodynamic modeling
4. Protocols for viral recombination and mutation analysis
5. Metagenomics workflows for phylodynamic research
6. Genomic surveillance techniques for emerging pathogens
7. Phylogenetic methods for drug-resistant pathogen tracking

8. Phylodynamic approaches for epidemic forecasting
9. Protocols for studying host-pathogen co-evolution
10. Machine learning applications in phylodynamic data analysis

Duration: 5, 10, 15, 20, and 30 Days

Note: Please cross confirm whether internship slots for this field are available before joining.

[Click Here for Phylodynamics Summer Internship Fees](#)

Application Process and Other info