Bio 723: Statistical Computing for Biologists

Paul M. Magwene Department of Biology

Course Goals

1. Develop a good working knowledge of R, a programming language and statistical computing environment

2. Introduce multivariate statistics from a geometric perspective, emphasizing the geometry of vector spaces.

3. Illustrate how to carry out common scientific computing tasks like simulation and building bioinformatics pipelines

4. Provide the tools and knowledge to conduct reproducible computational and statistical research.