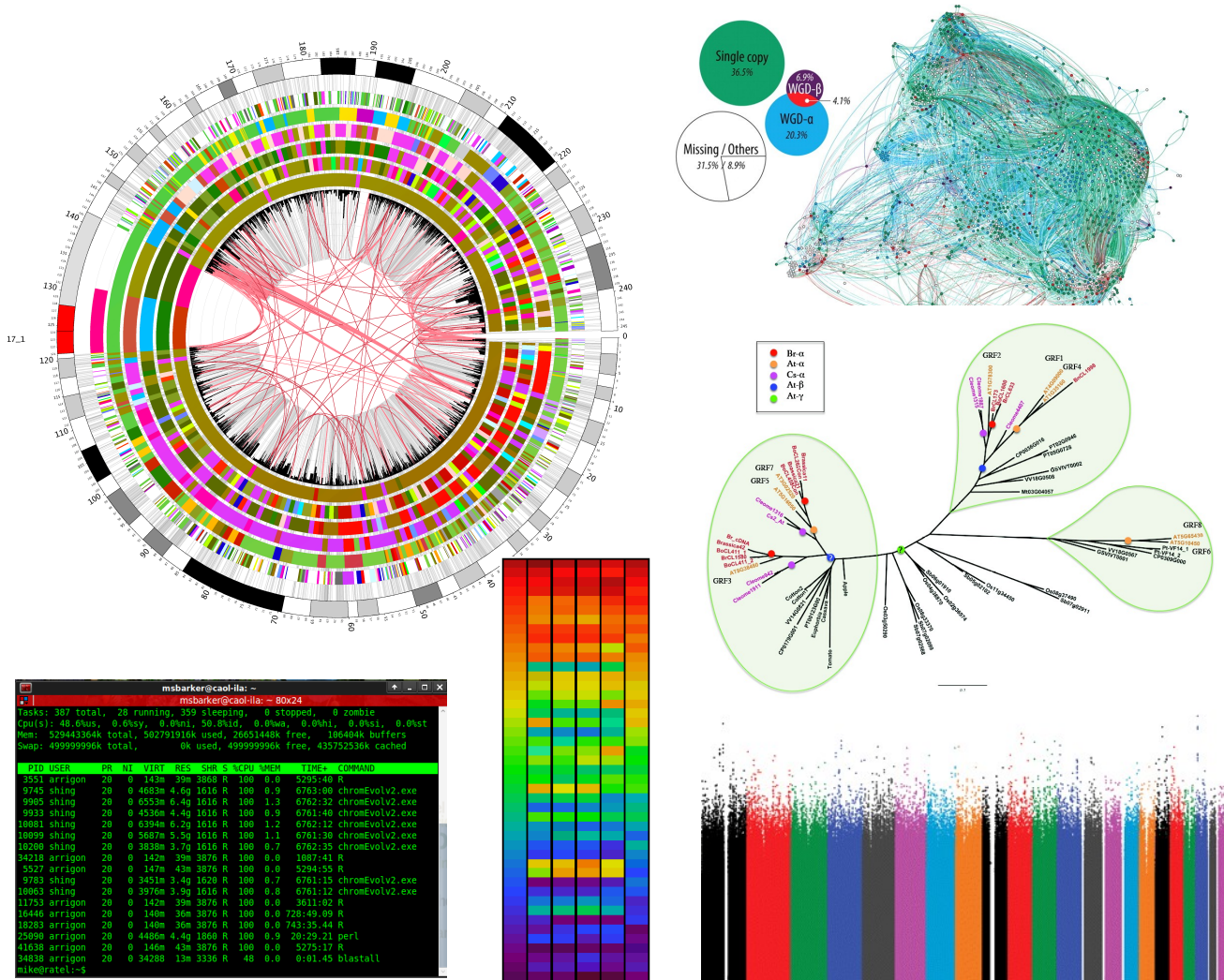


Spring 2014 ECOL-346 Bioinformatics



```

msbarker@caol-ila: ~
msbarker@caol-ila: ~ 80x24
Tasks: 387 total, 28 running, 359 sleeping, 0 stopped, 0 zombie
Dm(5): 48.0Bus, 0.0Pwr, 0.0Pwr, 50.0Sld, 0.0Pwr, 0.0Pwr, 0.0Pwr, 0.0Pwr
Mem: 529443364k total, 582791916k used, 2651448k free, 196404k buffers
Swap: 499999996k total, 0k used, 499999996k free, 43575236k cached

PID USER      %  NI  VIRT  RES  SHR  S  CPU  MEM    COMMAND
3551 orrigan  20  0  143m 39k 3984 R 100  0.0  5295.40 R
9745 shing   20  0  4683m 4.6g 1616 R 100  0.9  6763.00 chromEvol2.exe
9905 shing  20  0  6553m 6.4g 1616 R 100  1.3  6762.32 chromEvol2.exe
9923 shing  20  0  4536m 4.4g 1616 R 100  0.9  6761.48 chromEvol2.exe
10061 shing 20  0  6394m 6.2g 1616 R 100  1.2  6762.12 chromEvol2.exe
10099 shing 20  0  5687m 5.5g 1616 R 100  1.1  6761.38 chromEvol2.exe
10260 shing 20  0  3830m 3.7g 1616 R 100  0.7  6762.35 chromEvol2.exe
94210 orrigan 20  0  142m 3m 3876 R 100  0.0  1807.41 R
5527 orrigan 20  0  147m 43m 3876 R 100  0.0  5294.55 R
9783 shing  20  0  3451m 3.4g 1620 R 100  0.7  6761.15 chromEvol2.exe
10063 shing 20  0  3976m 3.9g 1616 R 100  0.8  6761.12 chromEvol2.exe
11793 orrigan 20  0  142m 3m 3876 R 100  0.0  1811.02 R
16446 orrigan 20  0  140m 36m 3876 R 100  0.0  728.49.09 R
18283 orrigan 20  0  140m 36m 3876 R 100  0.0  743.35.44 R
25090 orrigan 20  0  4486m 4.4g 1800 R 100  0.9  20.29.21 perl
41688 orrigan 20  0  146m 43m 3876 R 100  0.0  5275.17 R
34838 orrigan 20  0  34280 13m 3336 R 48  0.0  0:01.45 blastall
mike@ratel:~$
    
```

Large data sets are changing the way biologists study nature. Many jobs and research questions require students to understand how to handle and analyze these large data sets. In this course, students learn the computational approaches needed to work with and ask questions using biological “big data,” especially genomic data sets. Students will discover the opportunities and challenges of large-scale data analyses and gain practical biological computing skills. Lectures are built around a core of fundamental evolutionary biology concepts and designed for students with an interest in biology and little or no computational experience.

Instructor: Dr. Michael Barker, Assistant Professor EEB
 Lecture: TR 12:30 – 1:45 PM, Biology Learning Center, Koffler 209
 Lab: R 9:00 – 10:50 AM, Biology Learning Center, Koffler 209
 Webpage: <http://barkerlab.net/courses.html>