

# Putting Trees Into Focus

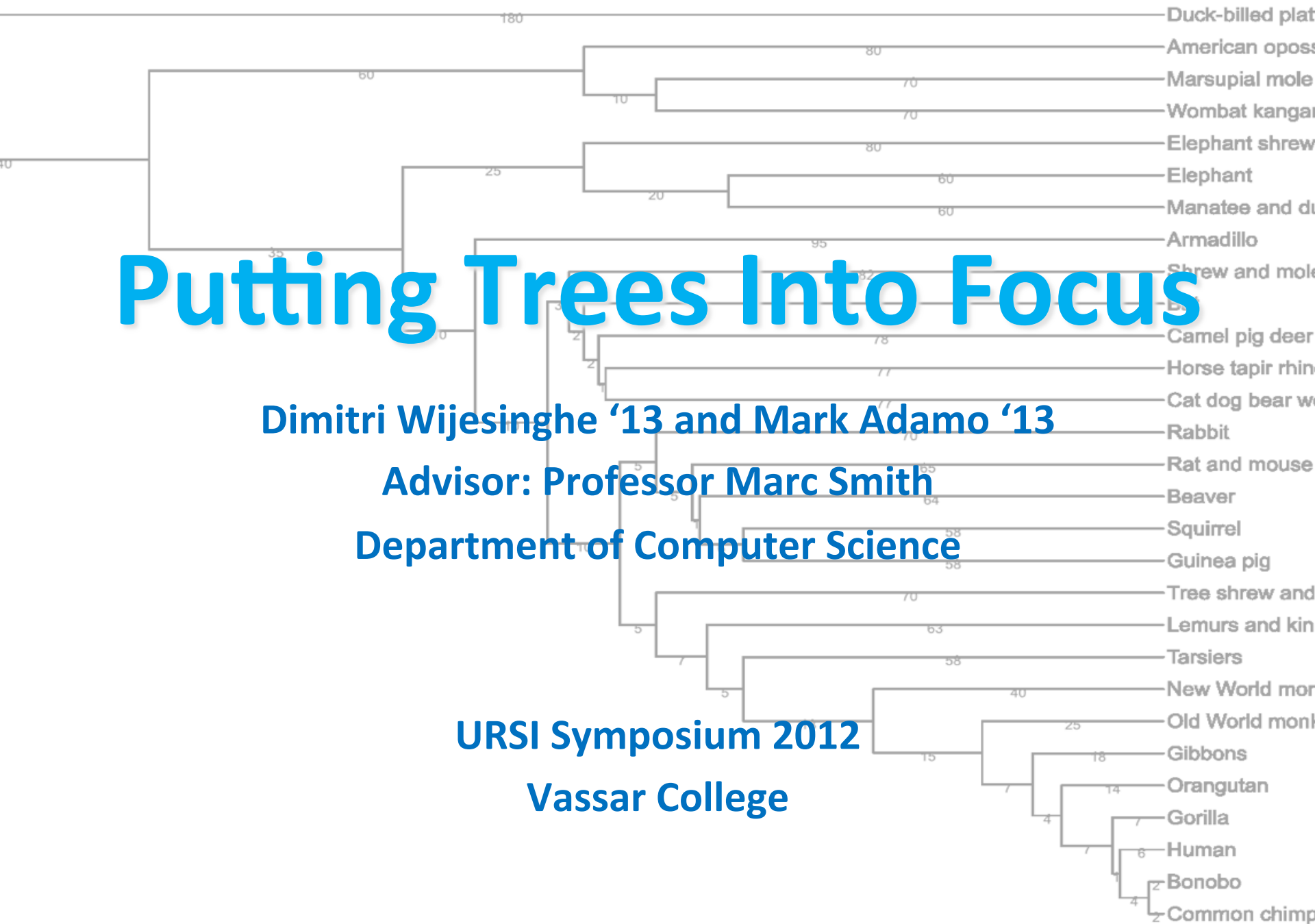
Dimitri Wijesinghe '13 and Mark Adamo '13

Advisor: Professor Marc Smith

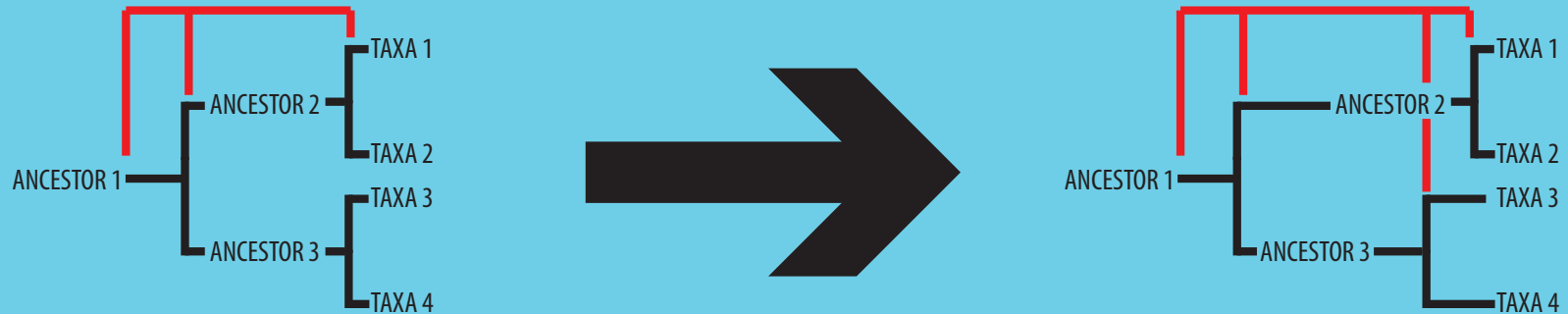
Department of Computer Science

URSI Symposium 2012

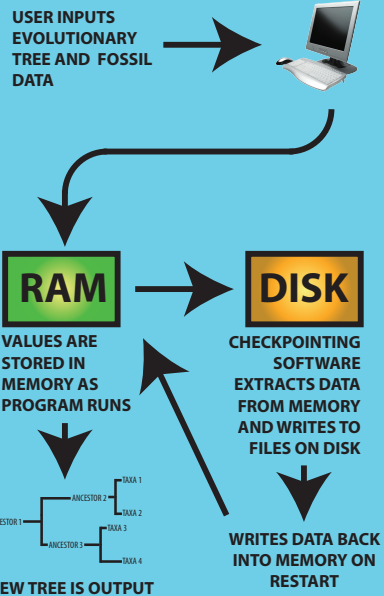
Vassar College



# MCMCTree Workflow



## CHECKPOINTING DATA FLOW



## SMALL CALCULATIONS



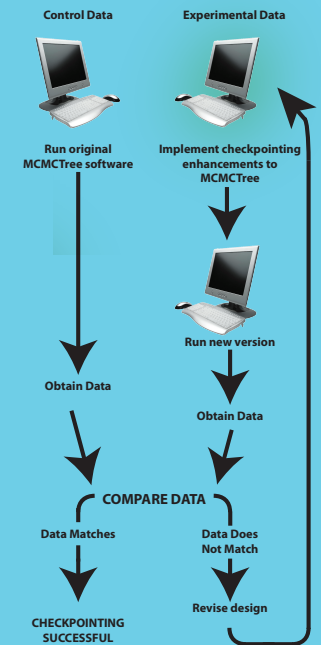
## LARGE CALCULATIONS



## LARGE CALCULATIONS WITH CHECKPOINTING

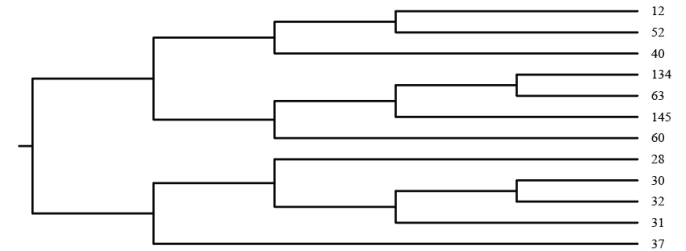


## Development Cycle



# TreeHouse

—► "(((((((10,25),27),14),(15,16)),(11,((146,147),((18,(22,23)),((19,(20,24)),21))))),17,26)),(((((((



```

graph LR
    D --- Node1
    H --- Node1
    Node1 --- Node2
    J --- Node2
    Node2 --- Node3
    F --- Node3
  
```

A diagram showing a sequence of sets. A vertical line on the left is connected to a horizontal sequence of three rectangles labeled  $A_1$ ,  $A_2$ , and  $A_3$ . The rectangles are arranged horizontally and overlap slightly. To the right of  $A_3$  are three dots, indicating the sequence continues.

F was placed in Marmota by [0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10] (100.000000%)  
 C was placed in Marmota by [3, 4, 5, 6, 7, 8, 9] (63.636364%)  
 D was placed in Marmota by [3, 4, 5, 6, 7, 8, 9] (63.636364%)  
 H was placed in Marmota by [3, 4, 5, 6, 7, 8, 9] (63.636364%)  
 J was placed in Marmota by [3, 4, 5, 6, 7, 8, 9] (63.636364%)

# Acknowledgments

The National Science Foundation

The URSI Program and Vassar College

Ralph Crosby, Grant Brammer, and Professor Tiffani Williams  
of Texas A&M University