Data Analysis for Wildlife Cameras

Data Analysis (all software free & available online)

1. TimeLapse to ID photos and output a .csv file of IDs, which can then be analyzed in Excel or R: http://saul.cpsc.ucalgary.ca/timelapse/
   - Windows only

2. Colorado's image analysis software, CPW Photo Warehouse, which uses Microsoft Access: https://cpw.state.co.us/learn/Pages/ResearchMammalsSoftware.aspx

3. R download: https://cran.r-project.org/
   - Compatible with Windows, OSX, Linux

4. Rstudio download (must have R installed): https://www.rstudio.com/products/rstudio/download/
   - Rstudio is a software that improves the interface of R, combining all windows (script, output, plots, environment) into one window split into 4 collapsible/expandible screens. Recommend downloading & using this if you plan to use R.

5. R tutorial & walk-through: https://swirlstats.com/students.html
   - I have all of my students start out with this tutorial when beginning to work with R. I like it because it has students work directly in the R environment in order to teach them how it works, but there are many many other tutorials available for free as well.
   - Start out with "Basics of programming" interactive tutorial. There are also a lot of other interactive courses for specific skillsets available (https://github.com/swirldev/swirl_courses#swirl-courses)

Including Spatial Data

If you want to take it a step further and include spatial data in your analysis, QGIS is free GIS software that does everything the expensive programs do, with a lot of amazing resources available online to walk you through analyses.
- QGIS download: https://www.qgis.org/en/site/forusers/download.html
  - Compatible with Windows, OSX, Linux