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| --- | --- | --- | --- | --- |
| Dependency | Version | Citation | Method of Installation | Language |
| Adegenet | v2.1.10 | [Link](https://academic.oup.com/bioinformatics/article/27/21/3070/218892?login=false) | install.package on R | R |
| Ade4 | v1.7 | [Link](https://www.jstatsoft.org/article/view/v022i04) | install.package on R | R |
| stAMPP | v1.6.3 | [Link](https://onlinelibrary.wiley.com/doi/10.1111/1755-0998.12129) | install.package on R | R |
| vcfR | v1.15.0 | [Link](https://onlinelibrary.wiley.com/doi/10.1111/1755-0998.12549) | install.package on R | R |
| MASS | v7.3 | [Link](https://www.stats.ox.ac.uk/pub/MASS4/) | install.package on R | R |
| Adegraphics | v1.02-21 | [Link](https://journal.r-project.org/articles/RJ-2017-042/) | install.package on R | R |
| pegas | v1.3 | [Link](https://academic.oup.com/bioinformatics/article/26/3/419/215731?login=false) | install.package on R | R |
| fastSTRUCTURE | v1.0 | [Link](https://pubmed.ncbi.nlm.nih.gov/24700103/) | conda environment | Python2 |
| NumPy | v1.26.0 | [Link](https://www.nature.com/articles/s41586-020-2649-2) | imported in structure.py | Python2 |
| parse\_bed | v1.0 | [Link](https://pubmed.ncbi.nlm.nih.gov/24700103/) | imported in structure.py | Python2 |
| parse\_str | v1.0 | [Link](https://pubmed.ncbi.nlm.nih.gov/24700103/) | imported in structure.py | Python2 |
| random | n/a | [Link](https://docs.python.org/3/library/random.html) | imported in structure.py | Python2 |
| getopt | n/a | [Link](https://man7.org/linux/man-pages/man3/getopt.3.html) | imported in structure.py | Python2 |
| sys | v3.8 | [Link](https://docs.python.org/3/library/sys.html) | imported in structure.py | Python2 |
| pdb | v3.7 | [Link](https://docs.python.org/3/library/pdb.html) | imported in structure.py | Python2 |
| warnings | v3.7 | [Link](https://docs.python.org/3/library/warnings.html) | imported in structure.py | Python2 |