# **RADish**

Scripts aiding file processing and analysis of RADseq and GBS data

## **LICENSE**

All code within the RADish v0.1.0 repository is available "AS IS" under a generous GNU license. See the LICENSE file for more information.

## **CITATION**

If you use scripts from this repository as part of your published research, I require that you cite the repository as follows (also see DOI information below):

• Bagley, J.C. 2017. RADish. GitHub repository, Available at: http://github.com/justincbagley/RADish.

Alternatively, please provide the following link to this software repository in your manuscript:

• https://github.com/justincbagley/RADish

## fastq\_ReadLengthChecker

Example usage code and output to screen during a fastq\_ReadLengthChecker.sh run, in which reads were discovered to range from 78 bp to 140 bp in length:

```
$ ./fastq_readLengthChecker.sh .
fastq_ReadLengthChecker v0.1.0, February 2018
Wed Feb 21 17:58:12 EST 2018 | Found 1123 .fastq files in current working directory.
INFO
INFO
         Wed Feb 21 17:58:12 EST 2018 | Shortest read length: 78 bp
INFO
         Wed Feb 21 17:58:12 EST 2018 | Longest read length: 140 bp
         Wed Feb 21 17:58:12 EST 2018 | Results output to 'fastq lengths summary.txt' in current working direct
INFO
         Wed Feb 21 17:58:12 EST 2018
INFO
         Wed Feb 21 17:58:12 EST 2018 | ...Cleaning up workspace...
INFO
         Wed Feb 21 17:58:12 EST 2018
INFO
         Wed Feb 21 17:58:12 EST 2018 | Done checking fastq read lengths.
INFO
INFO
         Wed Feb 21 17:58:12 EST 2018 | Bye.
```

#### fastqTrimmer

Example usage code and output to screen during a fastqTrimmer.sh run, in which all fastq files within the working directory were trimmed down to the first 1-91 bases:

```
fastqTrimmer v0.1.0, February 2018
| Thu Feb 22 09:32:59 MST 2018 | STEP #1: SETUP.
INFO
         | Thu Feb 22 09:32:59 MST 2018 |
                                              Setting working directory to: .
INFO
         | Thu Feb 22 09:32:59 MST 2018 | STEP #2: TRIMMING READS.
INFO
                                              Trimming reads in all .fastq files in current directory. Trim
         | Thu Feb 22 09:32:59 MST 2018 |
INFO
         | Thu Feb 22 09:32:59 MST 2018 |
                                              ./trimmed_fastq/, and original fastq files will be moved to .,
INFO
./APA1_1.R1.fastq
./APA1_2.R1.fastq
./APA1_3.R1.fastq
./APA1_4.R1.fastq
./APA1_5.R1.fastq
./APA1_6.R1.fastq
./APA1_7.R1.fastq
./APA1_8.R1.fastq
./CAP1H_10.R1.fastq
./CAP1H_1.R1.fastq
./CAP1H_2.R1.fastq
./CAP1H_3.R1.fastq
./CAP1H_4.R1.fastq
./CAP1H_5.R1.fastq
./CAP1H_6.R1.fastq
./CAP1H_7.R1.fastq
./CAP1H_8.R1.fastq
./CAP1H_9.R1.fastq
./CAP1L_10.R1.fastq
./CAP1L_1.R1.fastq
```

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