| Input                           | Unaligned Reads (fastq)   |
|---------------------------------|---------------------------|
| Interleaved Paired<br>End Reads | Interleave.py             |
| Output                          | fastq file                |
| Convert to fasta                | fastqtofasta.py           |
| Output                          | File of unaligned (fasta) |
| Extract Unique<br>Reads         | Uniquify.py               |
| Output                          | Unique.fasta              |
| Blast against<br>Database       | BlastX                    |
| Output                          | Tablular.txt              |
| Map as Appropriate              | Repeat from beginning!    |