Math 320 – Computer Methods in the Mathematical Sciences I.

Project Title: Report on "Accounting for Technical Noise in Single-Cell mRNA-Seq Experiments."

Authors: Jack Norleans and Yutong (Yolanda) Wang

1   Presentation

Comments:

- Nice visual aids for DNA/RNA story.
- Really nice description of the technical problem that you're facing.
- Size factor vs. size coeffficient was a bit confusing.
- Good job defining a Poisson process!
- Great job balancing the technical description with equations and formulae.

Grade: 9.5

Great presentation about a very difficult paper. Some of the mathematics was a bit confusing to follow, but overall very accessible.

2   Paper

Comments:

- Nice job laying out the steps in the algorithm.
- Really good intuition provided throughout.
- Well done working through all of the calculations in a clear way.
- The hypotheses of the chi-squared test are very nicely stated.
- Thanks for explaining your contributions.

Grade: 10

Very clear and insightful exposition of a difficult paper. Well done!