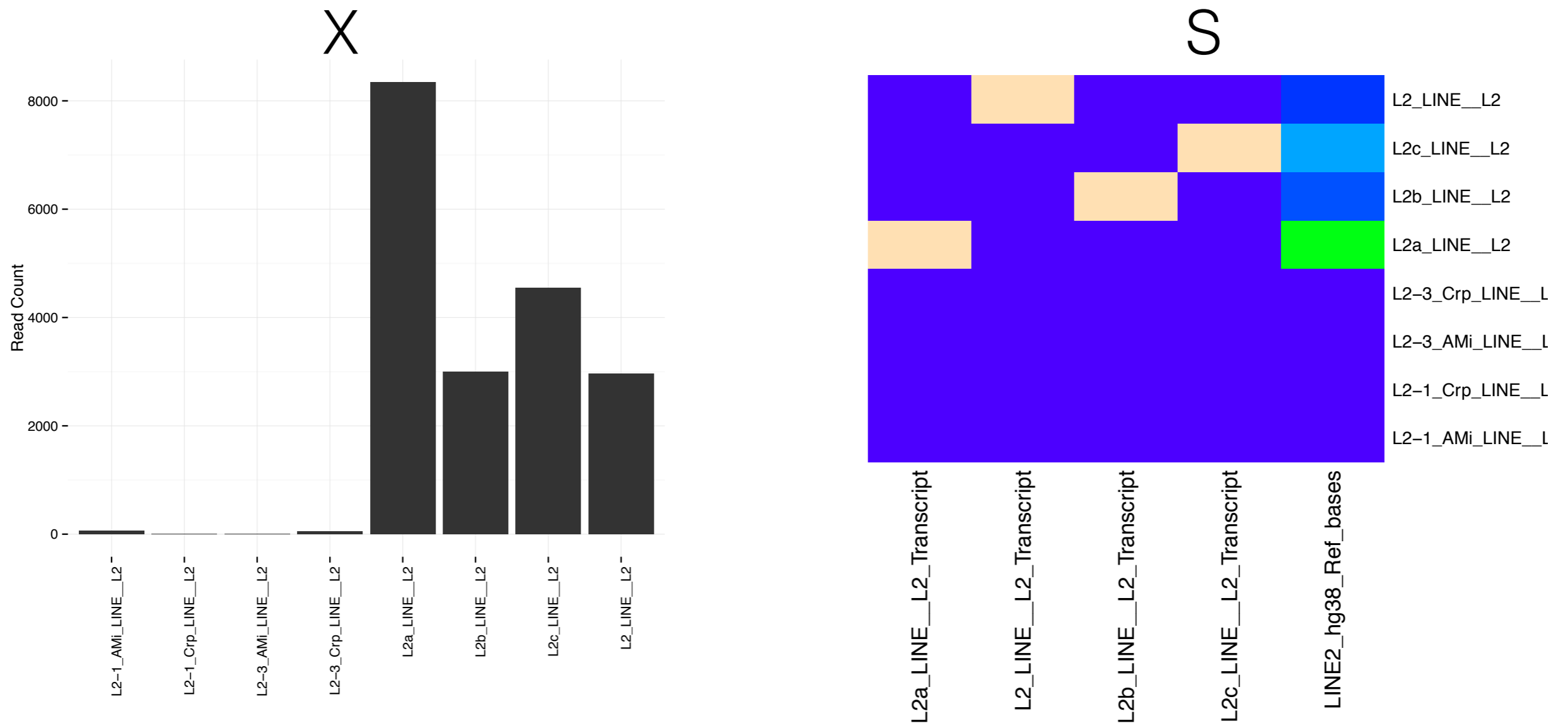


TeXP

tech

- Evaluating deconvolution strategies to remove background transcription.



$$X=AS$$

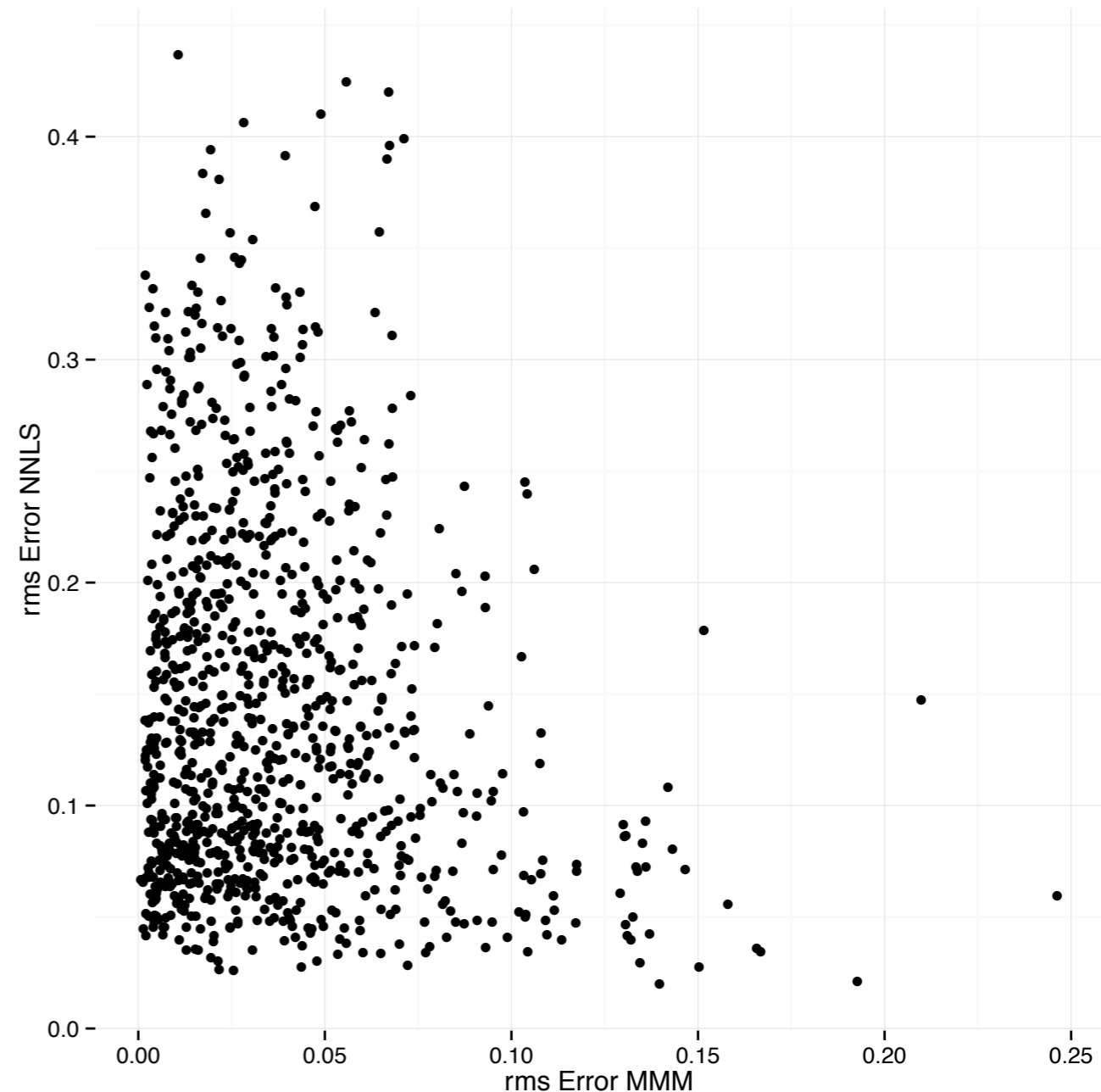
- Non Negative Least Square (NNLS)
 - using lsei (similar to deconRNAseq)
- Mixed Membership Model
 - Probabilistic modeling
 - Dirichlet distribution for A
 - X is a multinomial with proportions A^*S
 - Variational EM

NNLS vs MMM

- 1000 simulations.
- Where A is generated by Dirichlet(1)
- And X is generated by poisson $10.000 * A * S$
(reads)
- Run NNLS and MMM and calculate rmse

NNLS vs MMM

- 1000 simulations.
- Where A is generated by Dirichlet(1)
- And X is generated by poisson $10.000 * A * S$ (reads)
- Run NNLS and MMM and calculate rmse



NNLS vs MMM

- 1000 simulations.
- Where A is generated by Dirichlet(1)
- And X is generated by poisson $10.000 * A * S$ (reads)
- Run NNLS and MMM and calculate rmse

