**Update: a new way to handle missing, as shown in** [**NA2**](https://github.com/weigcdsb/COM_POISSON/tree/main/demo/v1/NA2)**. Now the NAs will not contribute to gradients and hessian. As a result, I don’t need to do interpolation for held-out anymore. Everything is done when fitting the model.**

**The followings are updated results.**

All 74 neurons











Neuron 13

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | dCMP-(5,3) | dCMP-(5,1) | dCMP-(5)-nu | dPoi-(5) | sCMP-(5,3) | sCMP-(5,1) | sPois-(5) |
| Training-Bit/spk | 0.0947 | 0.0927 | 0.0895 | 0.0765 | 0.0838 | 0.0831 | 0.0489 |
| Test-bit/spk | 0.0846 | 0.0849 | 0.0826 | 0.0683 | 0.0902 | 0.0897 | 0.0523 |



**Appendix: Previous interpolation results (should be wrong)**







