Digital Log : Analytical modelling – the cocktail party nightmare :

2017-10-25,16:05 : Need to fix some things before getting down to adding the layer of spatial unmasking.

1. Change the way random arrival of calls is simulated. Increase the length of the interpulse interval and make it into the *pulse interval* – which as a call + ipi. This way we can make the direct connection between the number of calls in the pulse interval and the number of bats in the group

2017-12-12, 13:31

What needs to be done to include spatial unmasking into the simulate jamming experiment?:

* Keep the structure the same – don’t change too much !
  + I could either subclass the original class and then change some methods
    - OR
  + Modify the original class so that it is backwards compatible…

As of now I can see that sub-classing it is the ‘easier’ way to go..but is it really?

14:19: Yes, I think I’ll sub-class it, because I can see now that in general the workflow remains the same, it is only the ‘analyse\_masking’ and ‘sim\_random\_call\_arrival’ functions that need to be changed. For this I will need to make the following changes in the following places :

\_\_init\_\_ :

* The echoes need to be assigned with θarrival and level
* A spatial release function needs to be included - DONE
* A temporal masking function needs to be included -DONE

Functions :

sim\_random\_call\_angles

sim\_random\_call\_levels

|  |  |
| --- | --- |
| OLD | NEW |
| Generates only time stamps for each call | Generates time stamps, θarrival and level |
| All\_call\_densities was structured like this :  All\_call\_densities:  Each\_call\_density:  Each\_replicate  many\_calls as lists |  |