

# Mira Welner Weekly Updates Feb 1st - Feb 6

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## Annealing Updates

- There was previously an issue where the header of the EDF would give a clamp range which may not be fully accurate, and the annealing code would read that and implement the clamp, resulting in inaccurate output.
- This issue was not actually found in the annealing code but rather way back in the EDF to Mat code - rather than 'fixing' this because its not really an error, I instead manually removed the header from the EDF and this fixed the issue
  - I know I need to write a script - I will write the script this weekend
- Now it almost works - but there are very small errors in every few segments. I'm unsure what the root of the issue is. For example:

◦ | MEAN | MEDIAN | MIN | MAX |

MATLAB: | -0.019282 | -0.030137 | -0.259785 | 0.254292 | C++: | -0.019222 | -0.029984 |  
-0.259785 | 0.254292 | Size: MAT(15361) vs C++(15361)

- I don't *think* this is a floating point error because the median is off - if it was only the mean I would assume floating point but median means things are not in the same order. In addition, the mean is off by 0.00006 which is very small but too big to be a floating point error. So I need to debug this.

## Find Wave Bounds

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- This is successfully implemented and passes tests!
- However because anneal implementation isn't 100% functional it loads .mat files output by Daniel's code rather than the .bin files that my code outputs - so this will need to be fixed