

Houhua Li: I am responsible for the regular attention, 3D attention, rigid from 3 points, and training in this capstone.

Qitong Wang: I am responsible for transition, torsion angle and torsion loss, combining both caps1 code and caps 2 code together and prediction.

I find I make a mistake when I initialize T with all zeros. So it does not train at all. As a result, we predict every position as zeros. We fixed this bug, but we don't have enough time to train again. Here is our training loss:

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13%		1001/7511 [1:41:32<11:09:11, 6.17s/it]	batch idx: 1000, loss: 509.309
27%		2001/7511 [3:23:10<9:26:22, 6.17s/it]	batch idx: 2000, loss: 468.304
40%		3001/7511 [5:04:29<8:02:19, 6.42s/it]	batch idx: 3000, loss: 401.892
41%		3094/7511 [5:14:13<7:41:01, 6.26s/it]	

This is the FAPE loss + torsion angle loss from the training phase.