



Cryo-Images Project



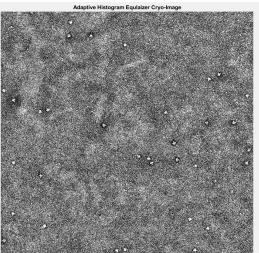
Cryo-image

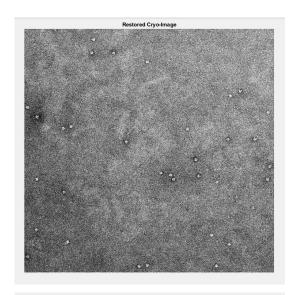
- First Dataset
 - '*.hdf' images which is created by EMAN2
 - '*.dm3' images which are created by GATAN

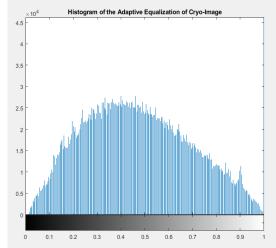


Histogram Equiaizer of Cryo-Image



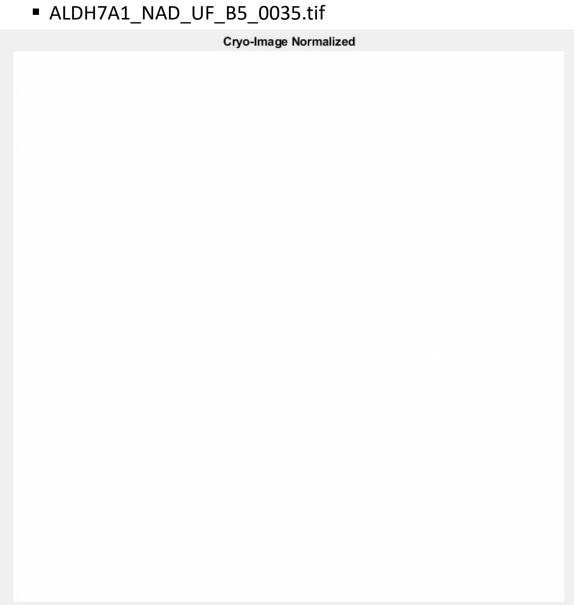




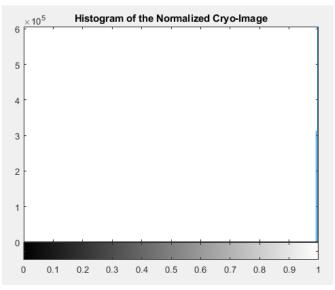




■ Image Normalization

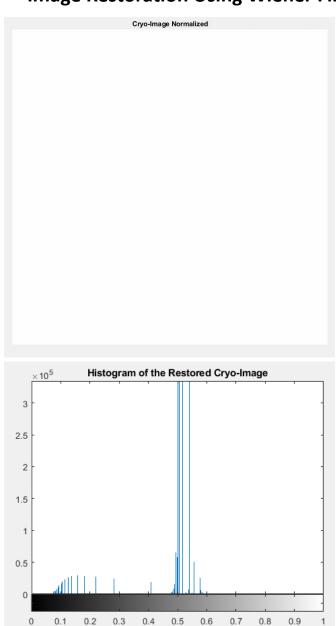


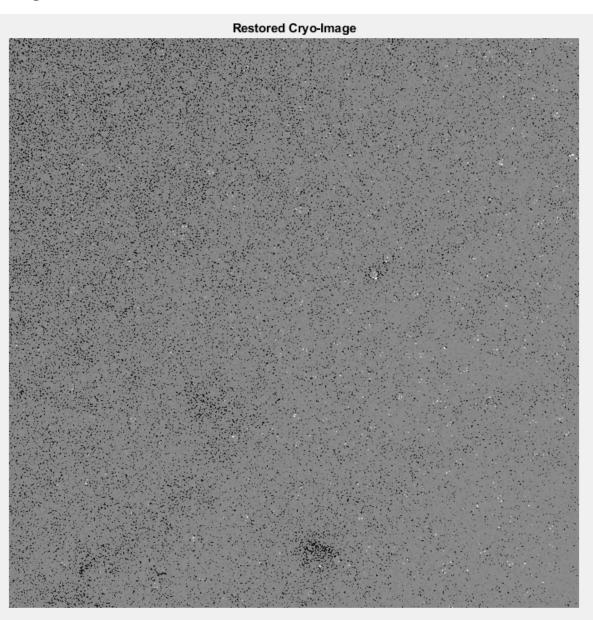
2048x2048 double								
	1	2	3	4	5	6	7	8
1	0.9956	0.9953	0.9951	0.9951	0.9950	0.9949	0.9945	0.995
2	0.9947	0.9948	0.9942	0.9946	0.9947	0.9938	0.9934	0.994
3	0.9944	0.9943	0.9941	0.9939	0.9939	0.9936	0.9934	0.992
4	0.9947	0.9945	0.9942	0.9945	0.9950	0.9946	0.9943	0.993
5	0.9944	0.9943	0.9942	0.9940	0.9949	0.9943	0.9949	0.993
6	0.9944	0.9945	0.9952	0.9940	0.9944	0.9945	0.9952	0.994
7	0.9943	0.9948	0.9950	0.9942	0.9948	0.9955	0.9953	0.995
8	0.9945	0.9951	0.9944	0.9945	0.9944	0.9954	0.9960	0.995
9	0.9953	0.9950	0.9940	0.9943	0.9944	0.9946	0.9955	0.995
10	0.9947	0.9943	0.9936	0.9933	0.9937	0.9948	0.9951	0.995
11	0.9943	0.9938	0.9942	0.9937	0.9941	0.9950	0.9960	0.997
12	0.9946	0.9941	0.9948	0.9950	0.9945	0.9950	0.9954	0.995
13	0.9957	0.9950	0.9953	0.9957	0.9951	0.9947	0.9954	0.994
14	0.9967	0.9957	0.9950	0.9956	0.9961	0.9952	0.9954	0.996
15	0.9960	0.9960	0.9954	0.9957	0.9964	0.9956	0.9956	0.9962
16	0.9947	0.9959	0.9961	0.9961	0.9965	0.9967	0.9963	0.996
17	0.9961	0.9970	0.9971	0.9970	0.9967	0.9974	0.9964	0.995
18	0.9974	0.9977	0.9975	0.9971	0.9964	0.9960	0.9960	0.9959
19	0.9971	0.9973	0.9970	0.9965	0.9958	0.9949	0.9946	0.995
20	0.9961	0.9967	0.9962	0.9954	0.9956	0.9955	0.9947	0.994
21	0.9951	0.9948	0.9955	0.9951	0.9953	0.9955	0.9950	0.994
22	0.9949	0.9940	0.9946	0.9947	0.9951	0.9956	0.9955	0.994





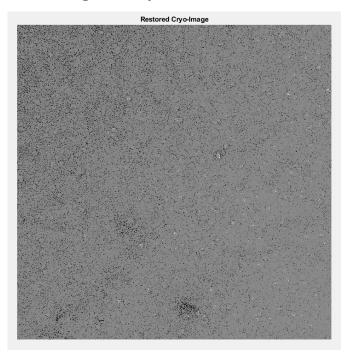
■ Image Restoration Using Wiener Filtering

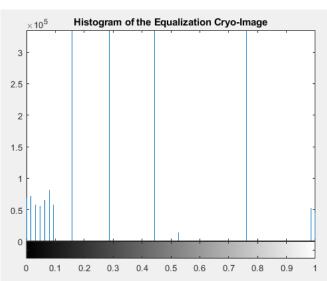


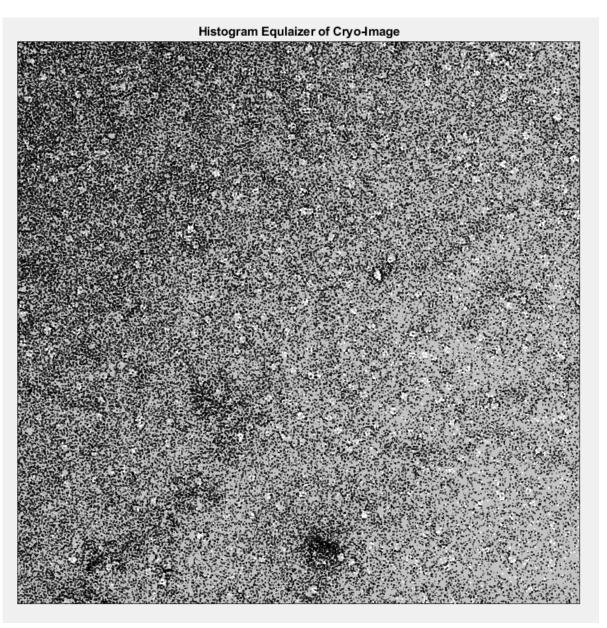




Histogram Equalization

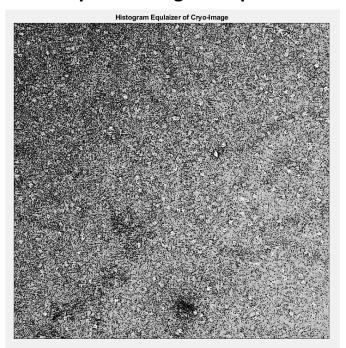


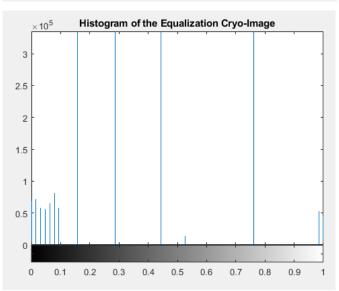


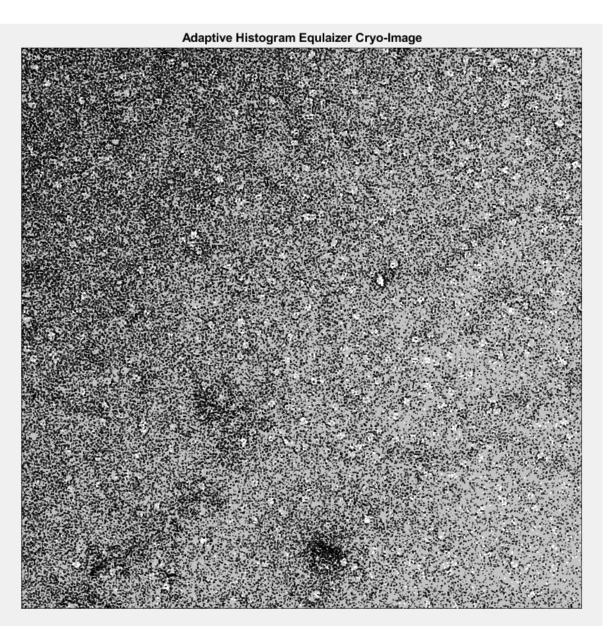




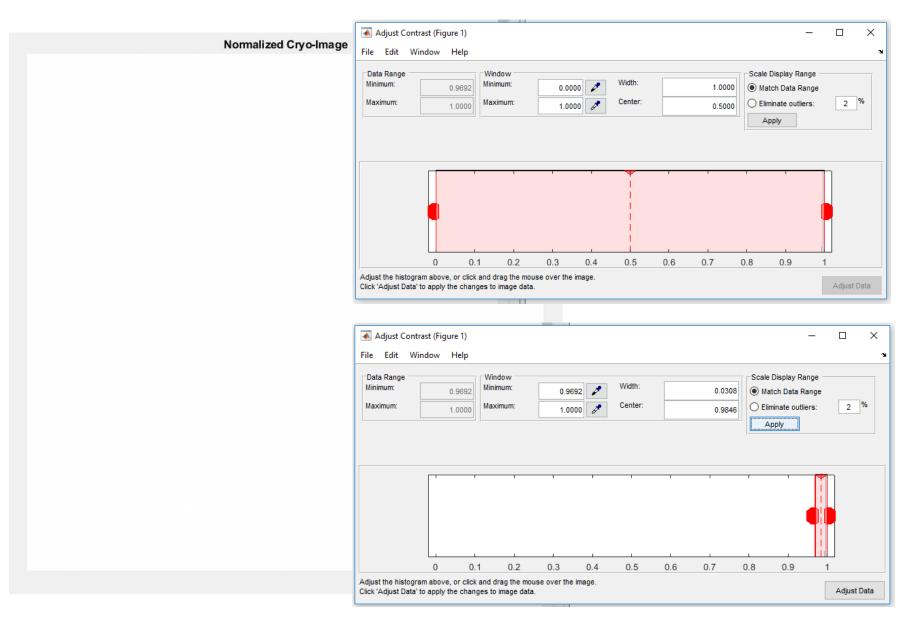
Aedaptive Histogram Equalization



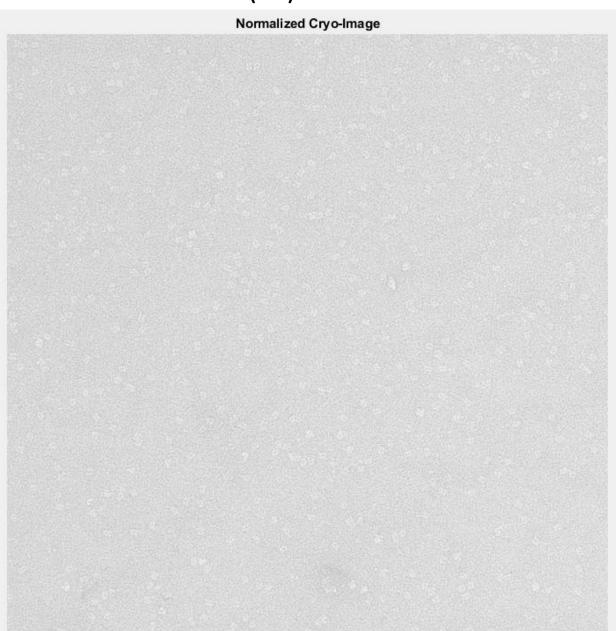


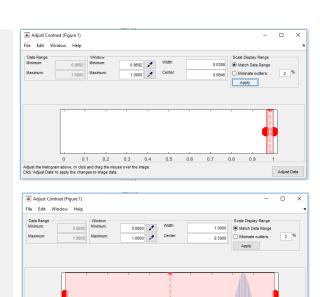






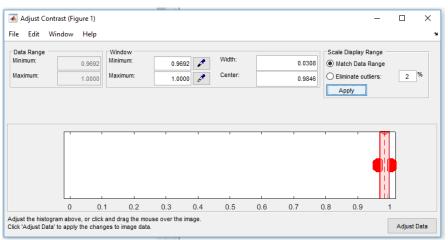


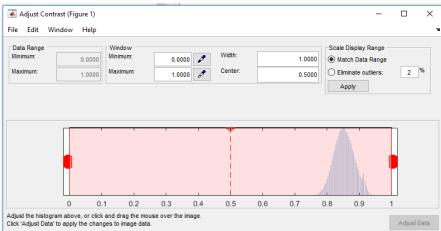


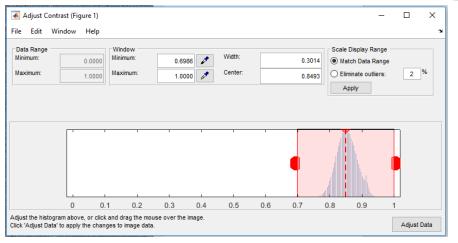


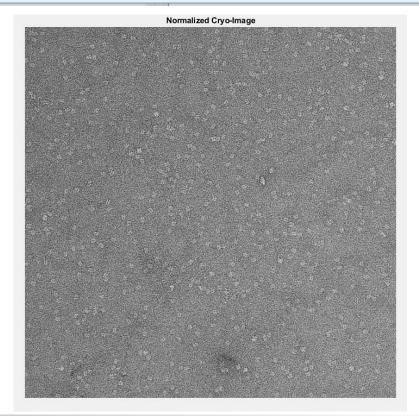
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9



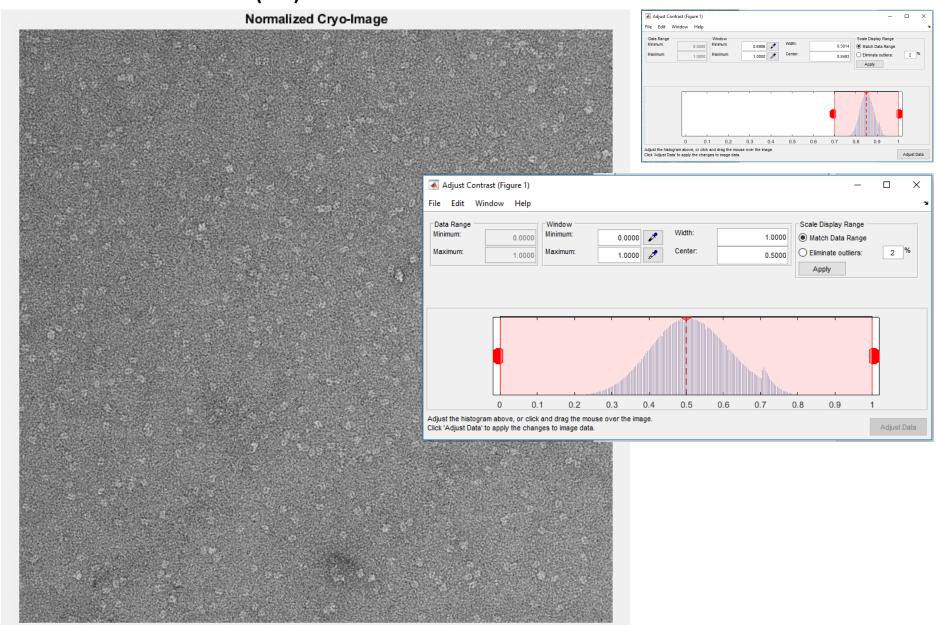




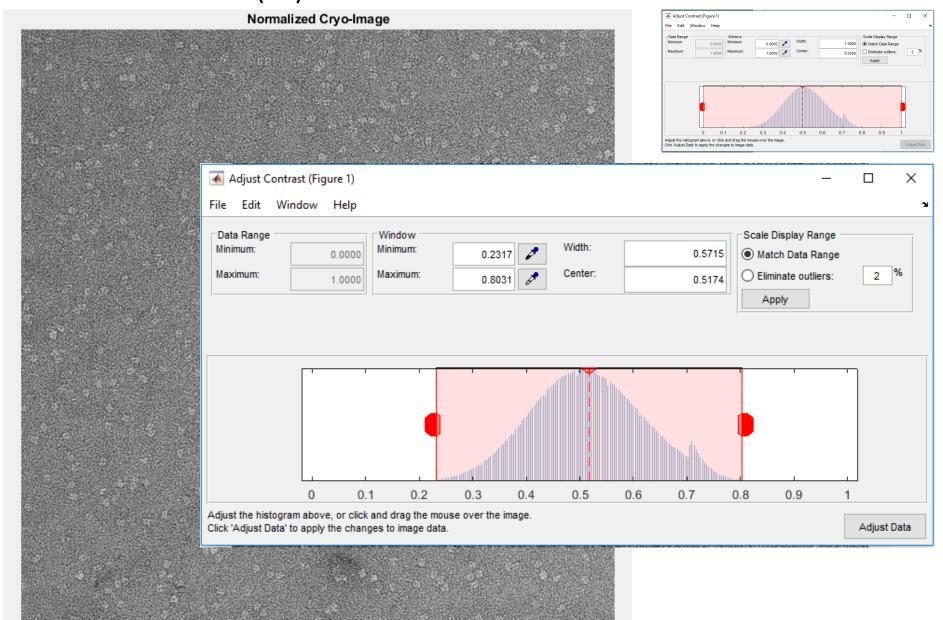




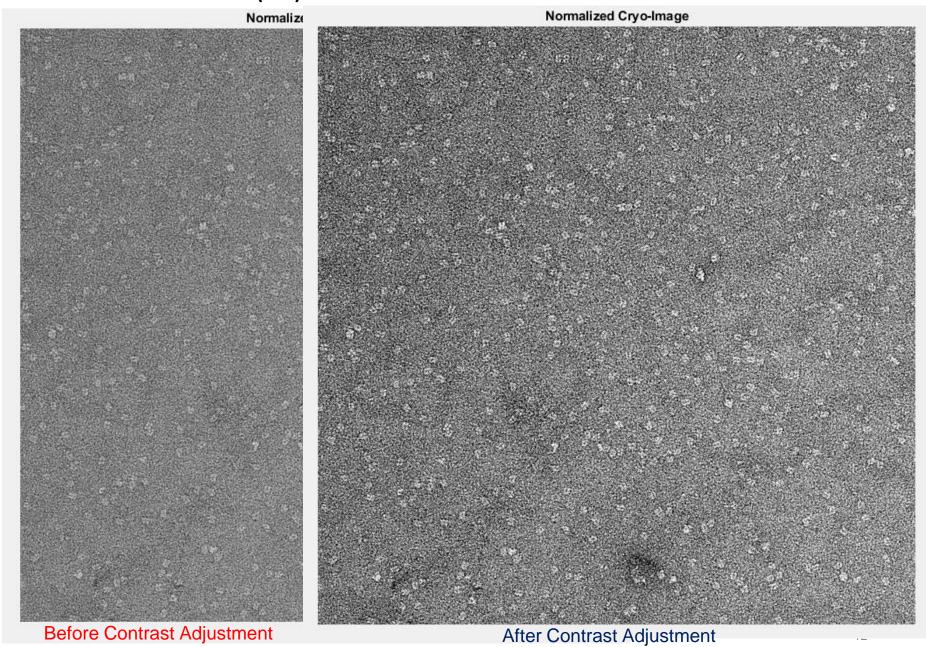






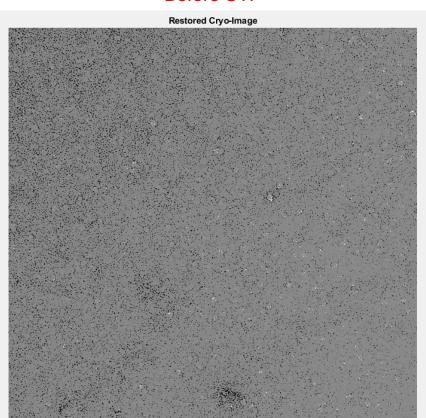








Before CTF



After CTF

