Matrix Theory Project Plan

Image Deblurring: Blind Deconvolution

What we need to do:

* Finish creating the “story”.
* Find resources to support what we want to tell.

Tasks:

1. Molly:
   1. Add to the introduction
   2. Type up your hand written notes
   3. Blind Deconvolution theory (general)
2. Gloria:
   1. Writing theory behind algorithm
3. Alyson:
   1. Example Code using matlab blinddeconv method
   2. How does matlab do this
4. ALL:
   1. Skim OSA, “Iterative Blind Deconvolution method and its Applications” paper
   2. Read designated resources below!

Meetings:

Check in on Sunday at 9am via Google Hang

Resources:

<http://ieeexplore.ieee.org/stamp/stamp.jsp?arnumber=5206815>

"Acceleration of iterative image restoration algorithms, by D.S.C. Biggs and M. Andrews, Applied Optics, Vol. 36, No. 8, 1997. (ALYSON)

"Deconvolutions of Hubble Space Telescope Images and Spectra", R.J. Hanisch, R.L. White, and R.L. Gilliland. in "Deconvolution of Images and Spectra", Ed. P.A. Jansson, 2nd ed., Academic Press, CA, 1997. (MOLLY)

"Light Microscopic Images Reconstructed by Maximum Likelihood Deconvolution", Timothy J. Holmes et al. in "Handbook of Biological Confocal Microscopy", Ed. James B. Pawley, Plenum Press, New York, 1995. (GLORIA)

Link to Overleaf Paper:

<https://www.overleaf.com/11972442nthgxdzkpsct#/45412243/>