Introduction

* What is image deblurring?
  + Problem history
  + Goals of using deblurring
  + Difficulties associated with it (STAY GENERAL)
* Applications
  + What is deblurring most useful for in the real world
  + Are there certain methods that are most relevant
  + Are there certain methods strongly associated to certain applications
  + Have there been new algos developed as demand for help with certain applications arises
  + Anything else that is super interesting
* We will focus on blind deconvolution alg!
  + What is deconvolution – general definition
  + Generally – what is BLIND devconvolution
  + What applications is blind deconvolution most used for
* Restate our purpose
  + Theory behind blind deconv
  + Example showing theory
  + Show how this is relevant to matrix theory and why application is important

Blind Image Deconvolution

* Reintroduce what it is
* Point out highlights/advantages of this method
* Introduce all necessary terminology
  + Matrix theory terminology
  + Blind deconv terminology
* Formulate the problem
  + Formulas
  + Equations to solve
  + Assumptions
  + Constraints/limitations for the real world

Matlab Implementation

* Assumptions underlying their implementation (if any)
* What can it be used for
* How did they implement it
* ??????

Results

* We’re going to use Matlab’s build in deconvblind function!
* Explain why we’re using a certain image and what we hope to achieve by applying blind deconv to it
* Any assumptions/defaults we’re going to use in the algo
* Step through process
  + BE SURE TO CONNECT BACK to explanation of general theory and to matlab implementation explanation

Conclusion

* TBD once we write the rest of stuff