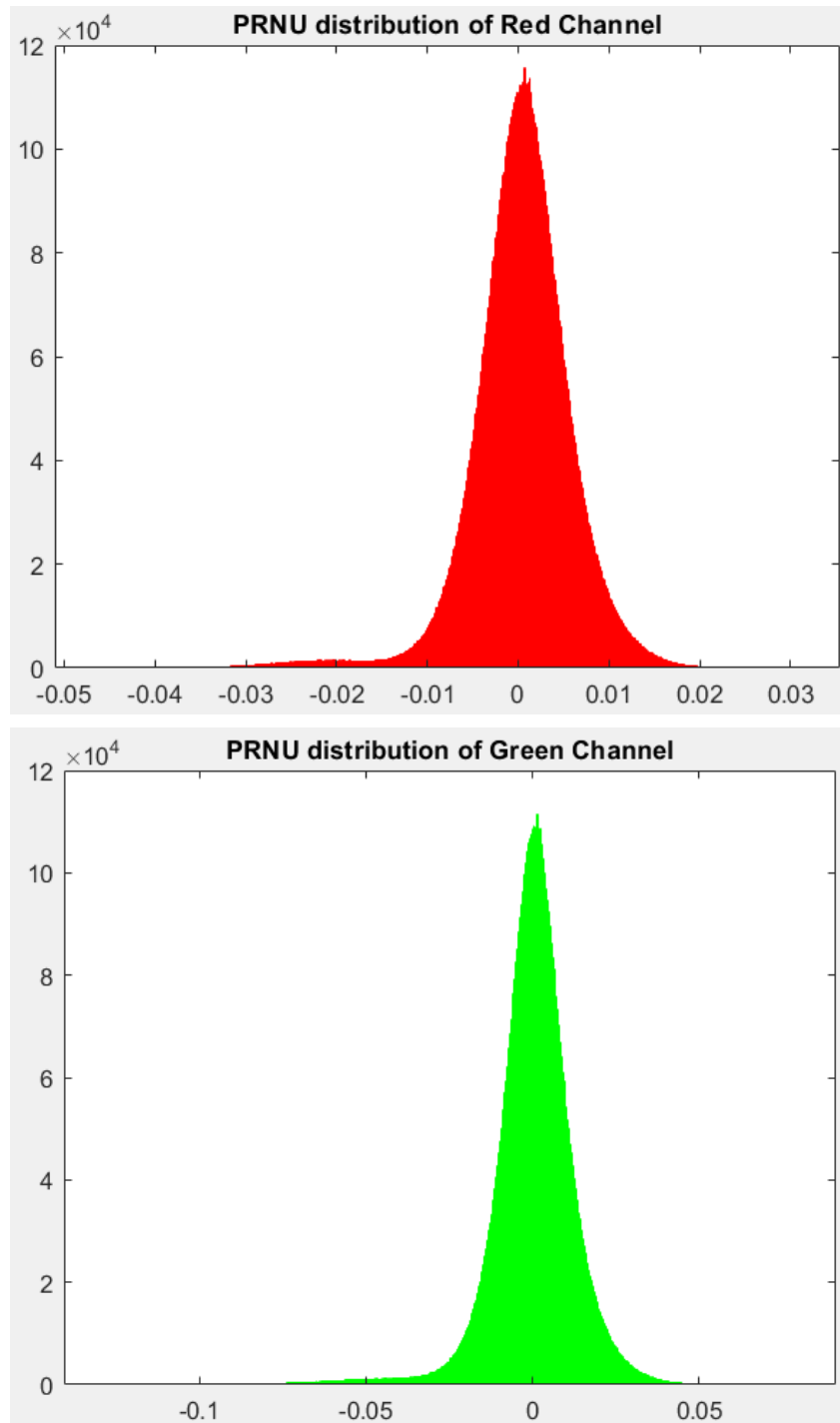
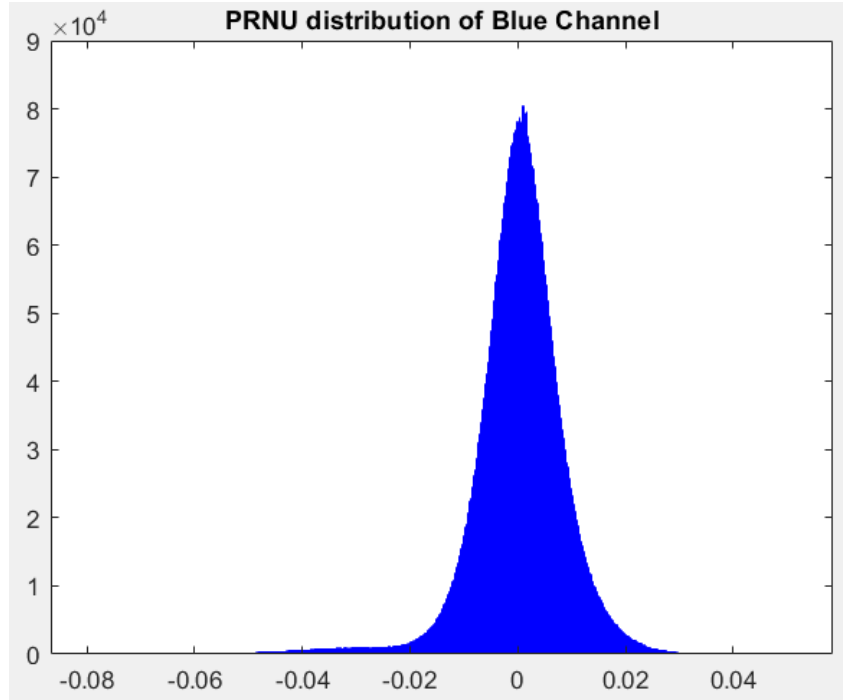


Daniel Browne  
EECE 566  
11 March 2022

## Project 2 Data and Analysis

Channel Histograms:





PRNU data for each channel:

Channel Color	Red	Green	Blue
Mean	0.000391	0.000302	0.000359
Variance	0.005552	0.012356	0.008307

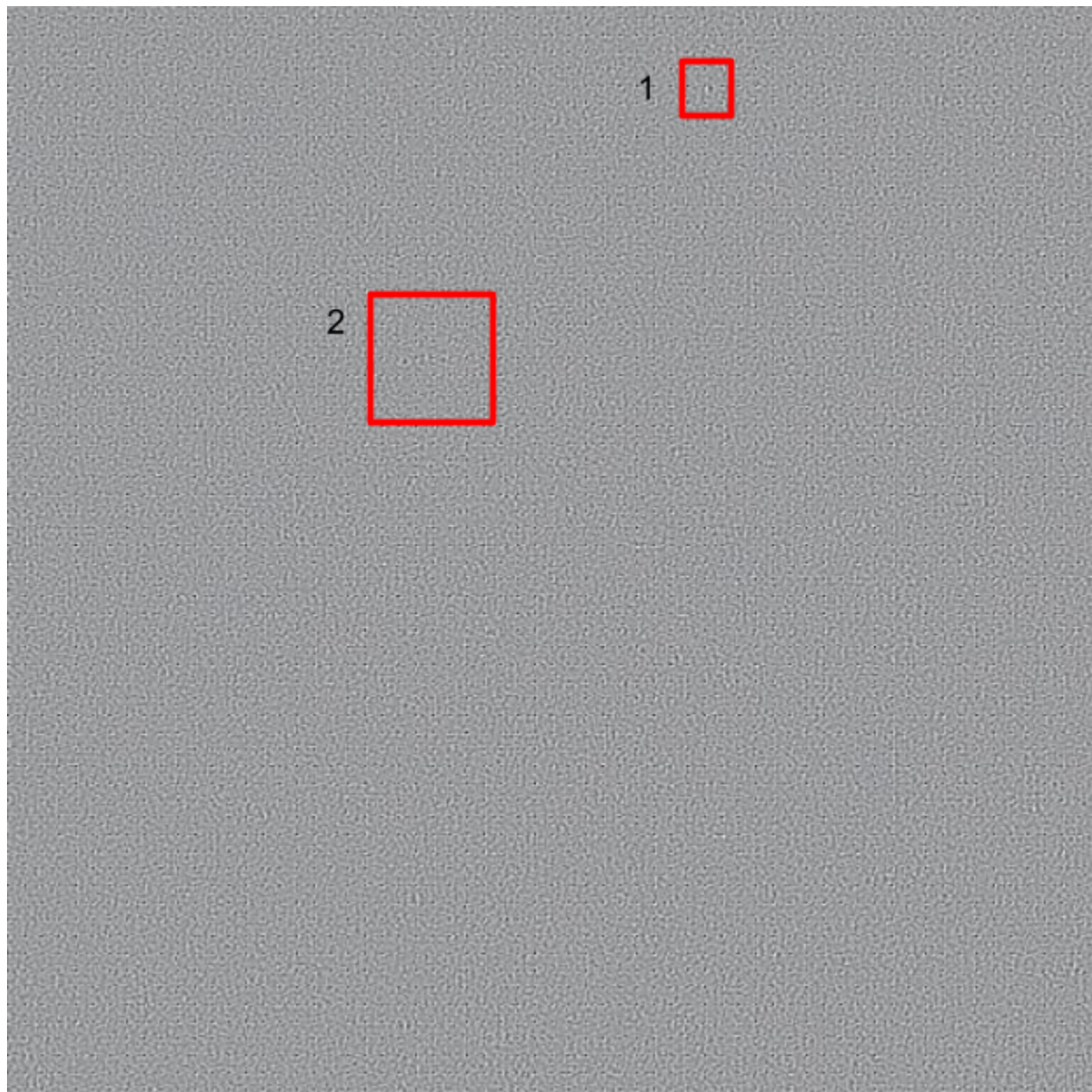
Verifying the correctness of the estimated PRNU:

Image	1	2	3	4	5	6	7	8	9	10
$\rho$	0.07475	0.05131	0.05082	0.04523	0.06951	0.08167	0.08191	0.08615	0.07644	0.07585
$\rho_m$	-0.00110	-0.00226	-0.00628	0.00129	0.00014	-0.00023	0.00026	-0.00158	-0.00138	-0.00143

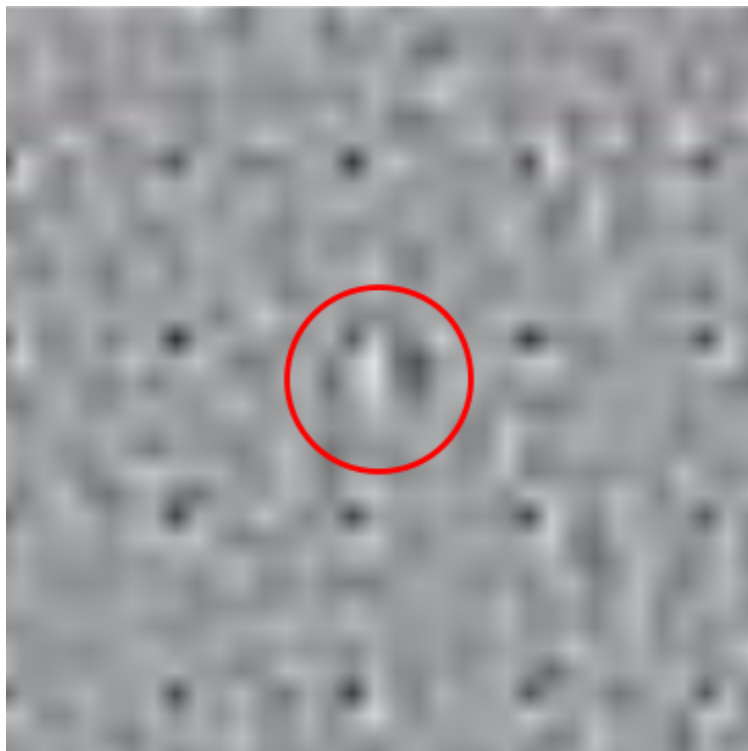
## Full 12 Megapixel Fingerprint



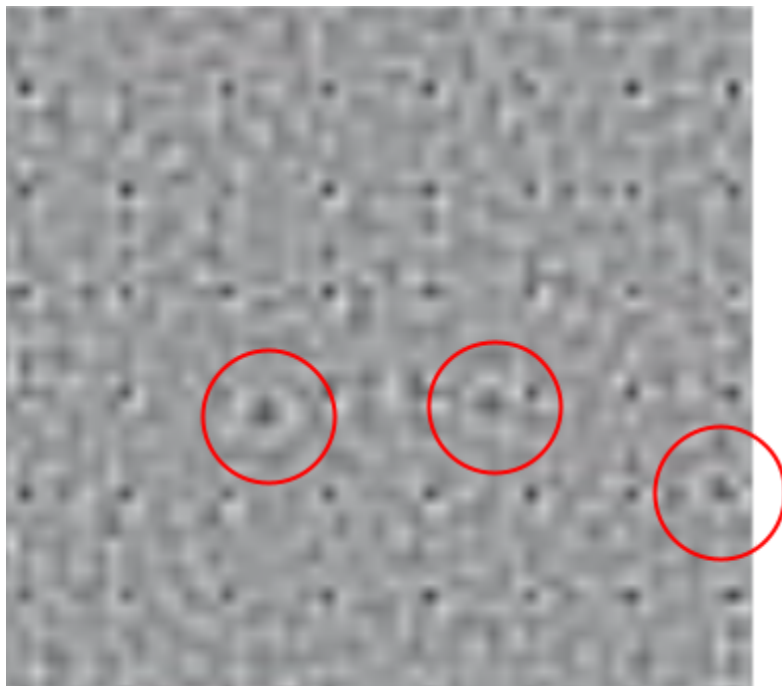
512x512 Sample of Fingerprint



**Section 1:** Defective Pixel/Dust Speck



**Section 2:** 3 Defective Pixels/Dust Specks



These sections also show a periodic dot pattern every 8 pixels, which is a result of JPEG dimpling. I was unable to find any hot/dead pixels but it does not mean that there are none. They would show up on the fingerprint as a lone white/black pixel respectively.