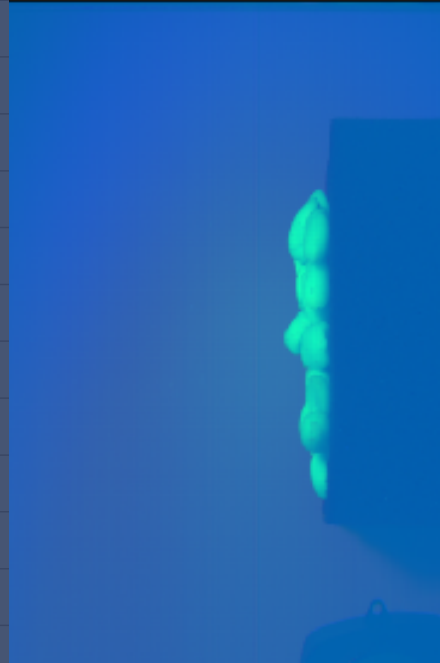


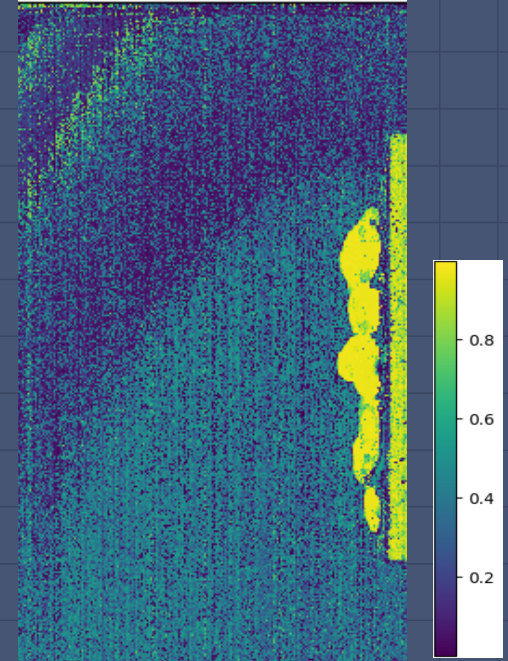
Heatmaps

- Easy to understand large quantities of information
 - Darker Color = Lower Probability
 - Lighter Color = Higher Probability
- Can visually identify presence and location of allergen
- Can externally identify type of allergen
- Can understand relative amount

1. Hyperspectral Image of Shell-Off Peanuts on Platform with PCA



2. Heatmap of Shell-Off Peanuts on Platform, Searching for Nuts

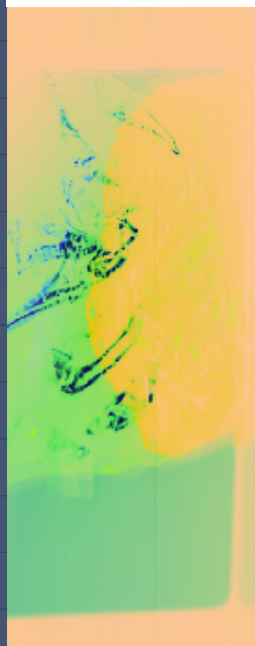


Heatmap Example: Noodles

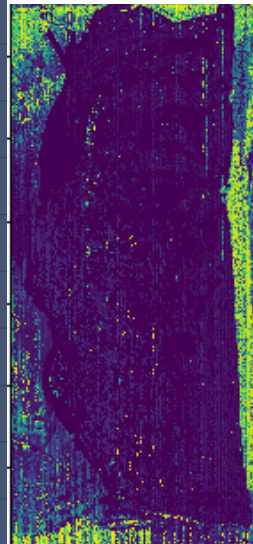
1. Hyperspectral Image of Cooked Noodles w/o Peanuts with PCA



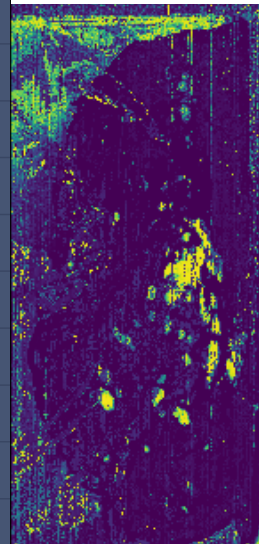
2. Hyperspectral Image of Cooked Noodles w/ Peanuts with PCA



3. Heatmap of Cooked Noodles w/o Peanuts, Searching for Nuts

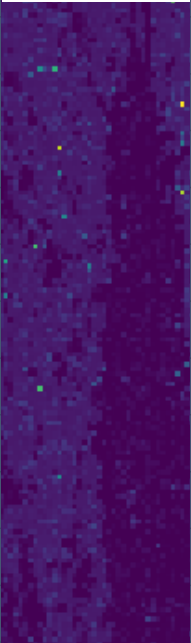


4. Heatmap of Cooked Noodles w/ Peanuts, Searching for Nuts

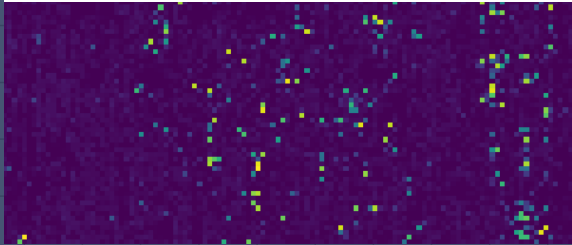


Heatmap Example: Flour

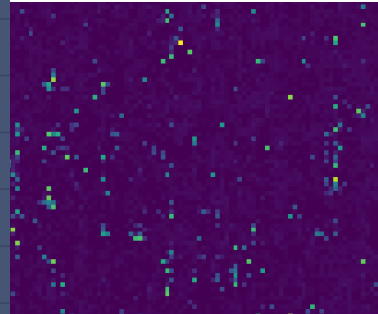
1. Heatmap of 100 grams of Wheat Flour Mix, Searching for Nut



2. Heatmap of 3:100 gram (Peanut: Wheat Flour) Mix, Searching for Nut



3. Heatmap of 10:100 gram (Peanut: Wheat Flour) Mix, Searching for Nut



4. Heatmap of 100:100 gram (Peanut: Wheat Flour) Mix, Searching for Nut

