

### **Statement of Purpose**

We (Darren Zhang, Robbie Marcus) will be replicating a somewhat-recent research paper in spectral mating, as it pertains to performing soft image segmentation (e.g., the Zoom feature that enables users to generically blur the backgrounds.) The basis of our replication will be translating the source material from a mix of `matlab` and `cpp` to `python`.

Our GitHub repository is located at:

`https://github.com/rob-marcus/21344\_term\_project`

The research paper we are using can be found in our repository under `ref_material/Spectral mating.pdf`.