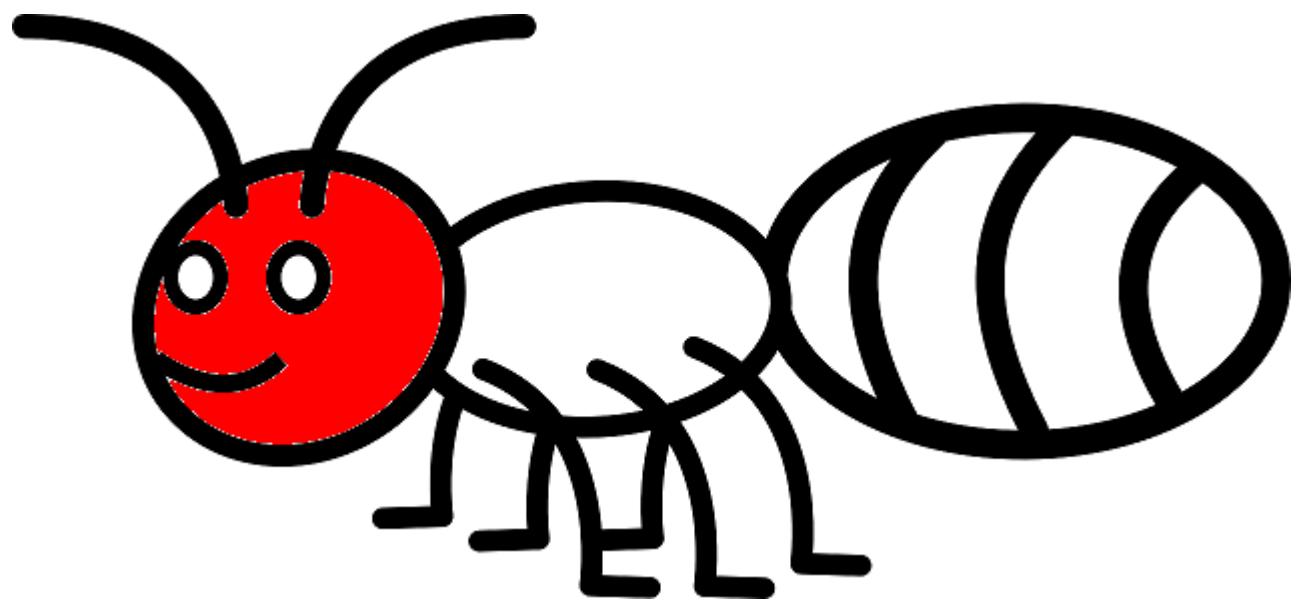


# HW2 Outputs

## Task 1: Floodfill



## Task 2: Gaussian Blur (iterations)

Iteration 0



Iteration 1



**Iteration 2**



**Iteration 3**

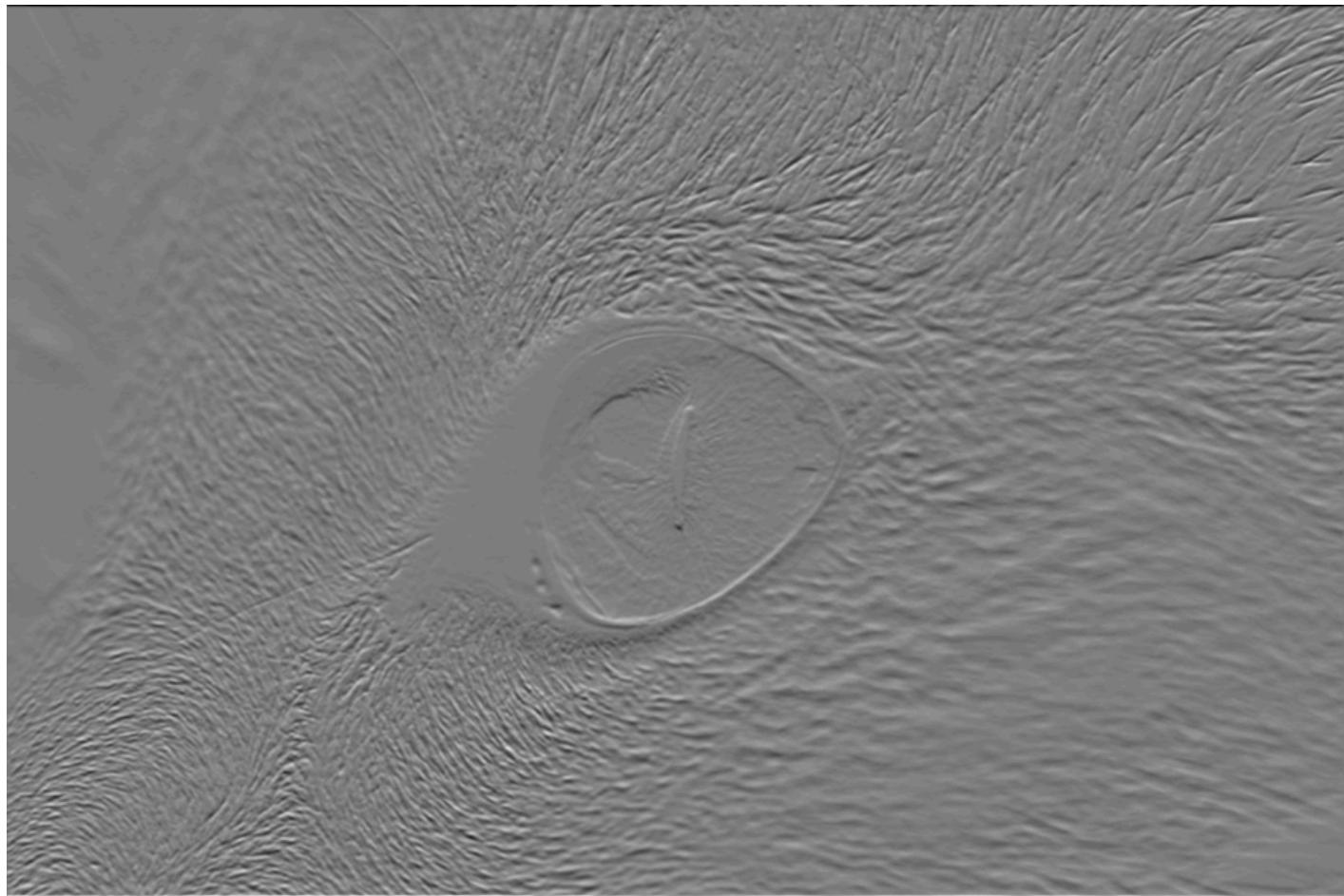


**Iteration 4**

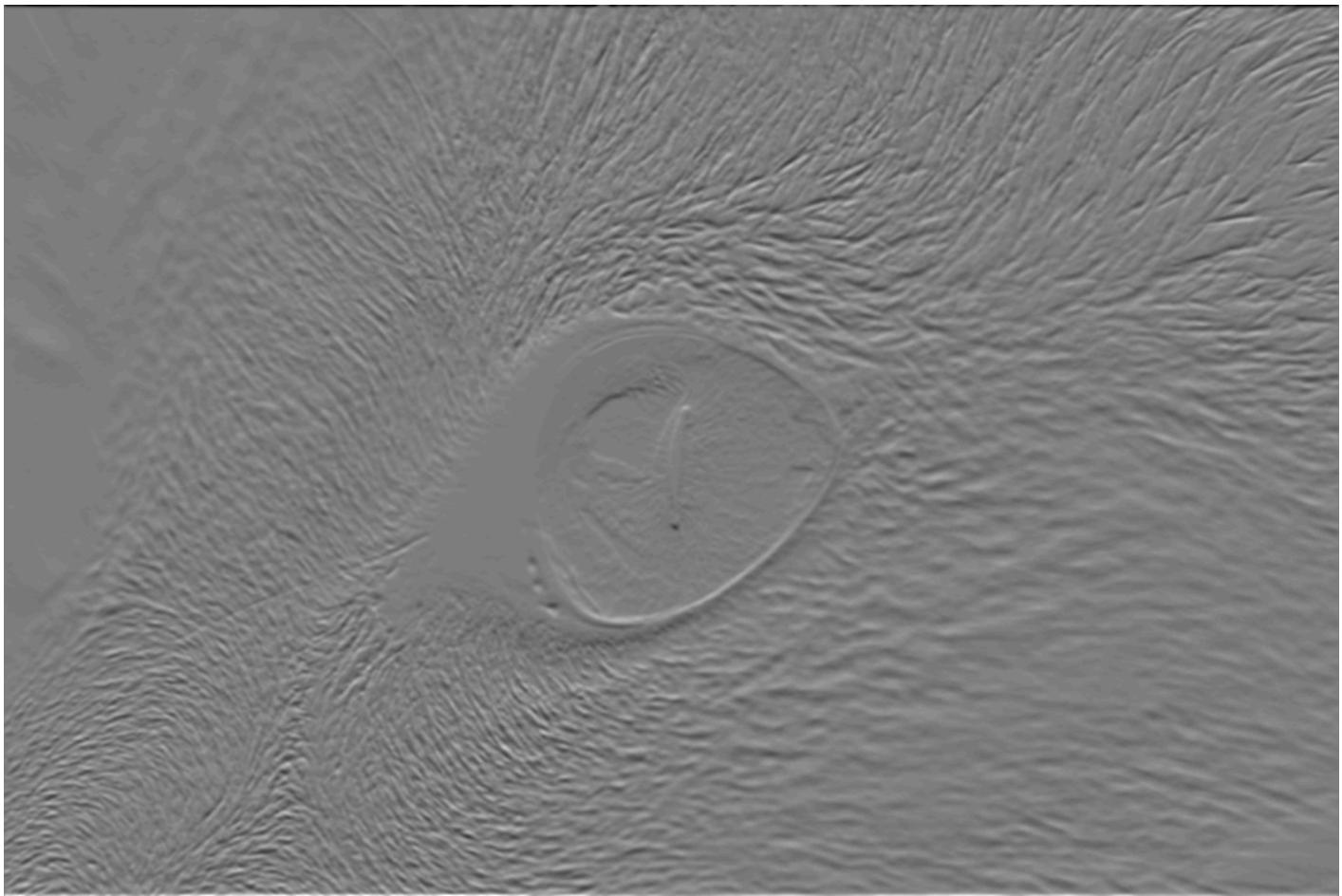


## Task 3: Vertical Derivative

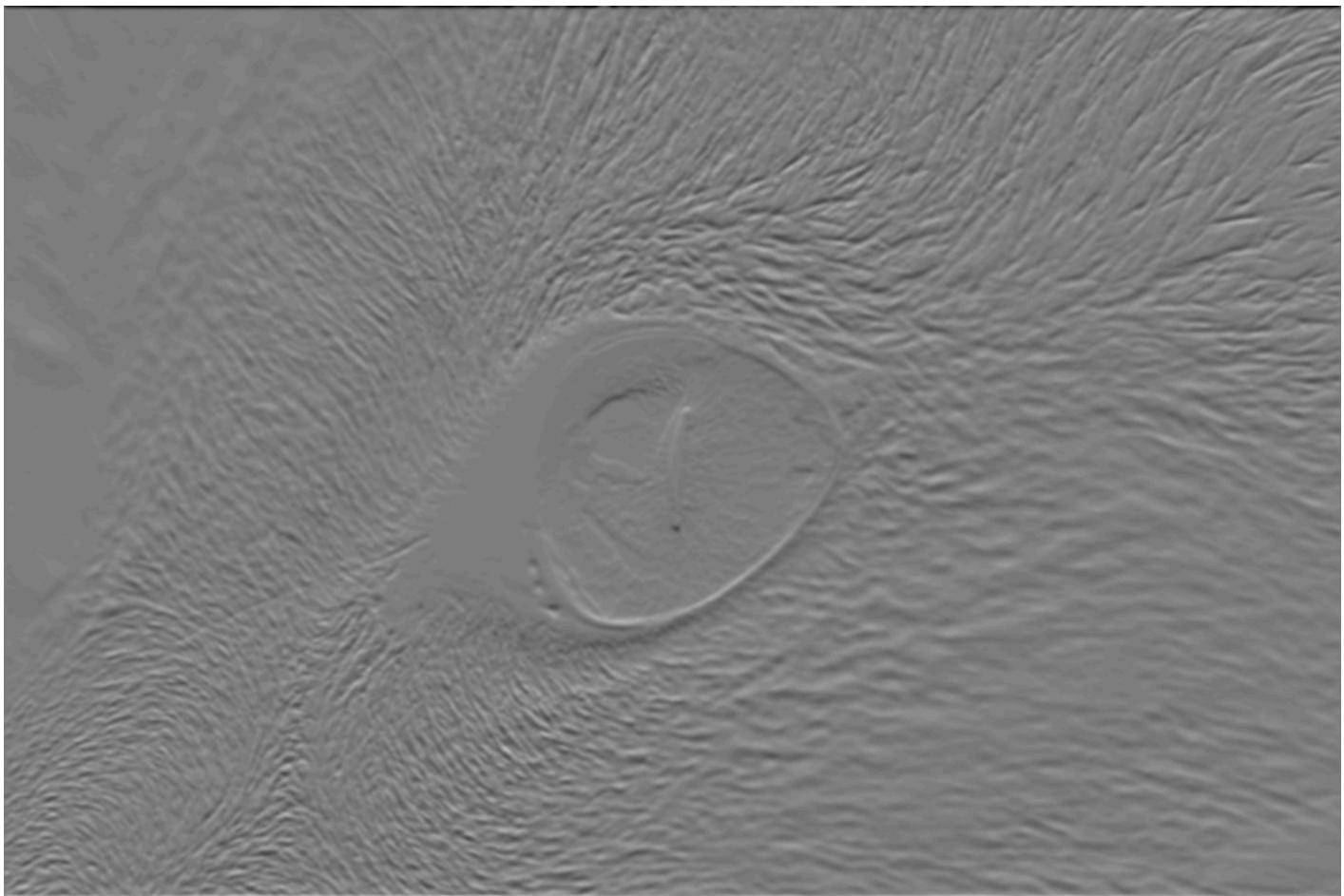
**Iteration 0**



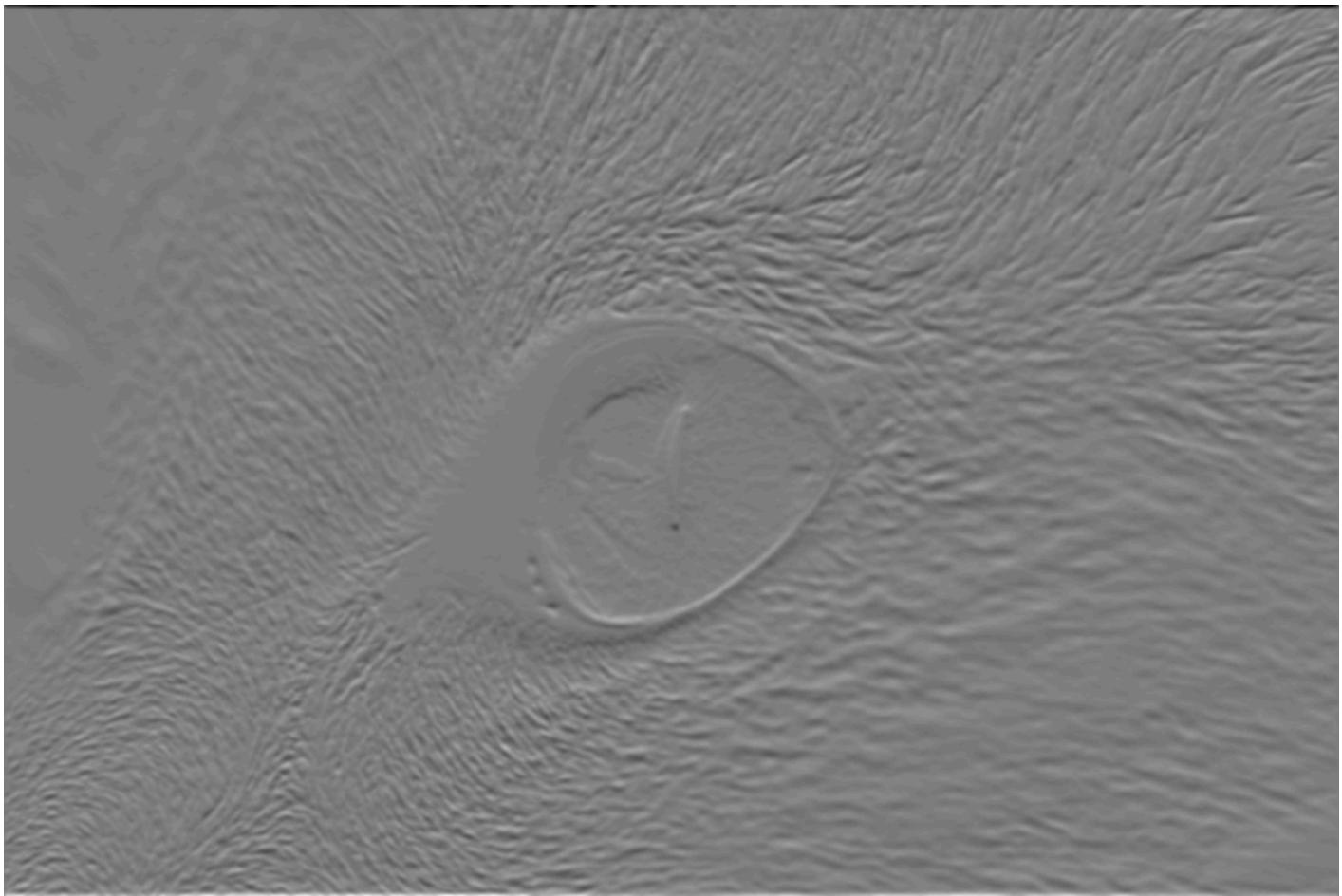
**Iteration 1**



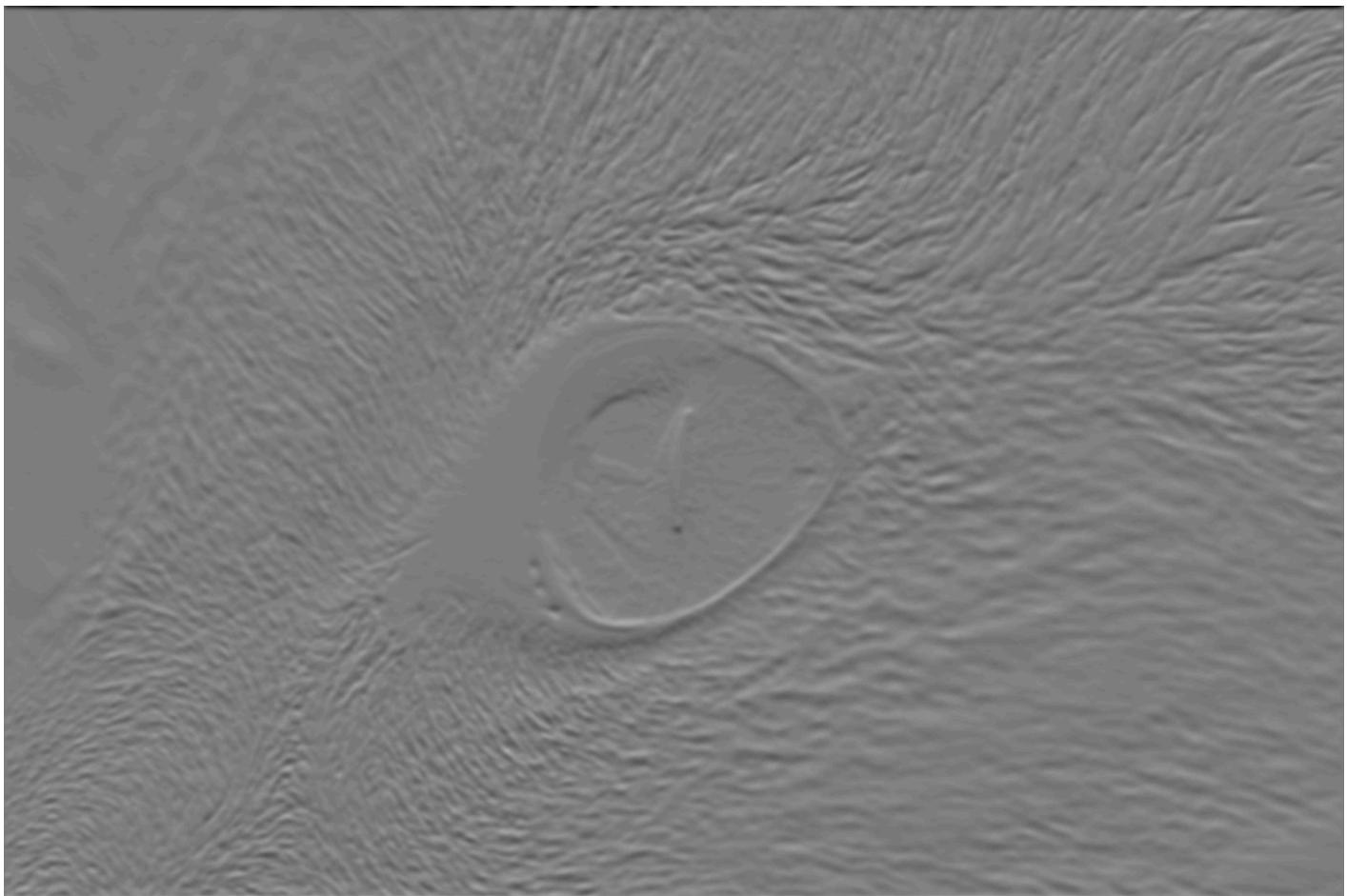
**Iteration 2**



**Iteration 3**

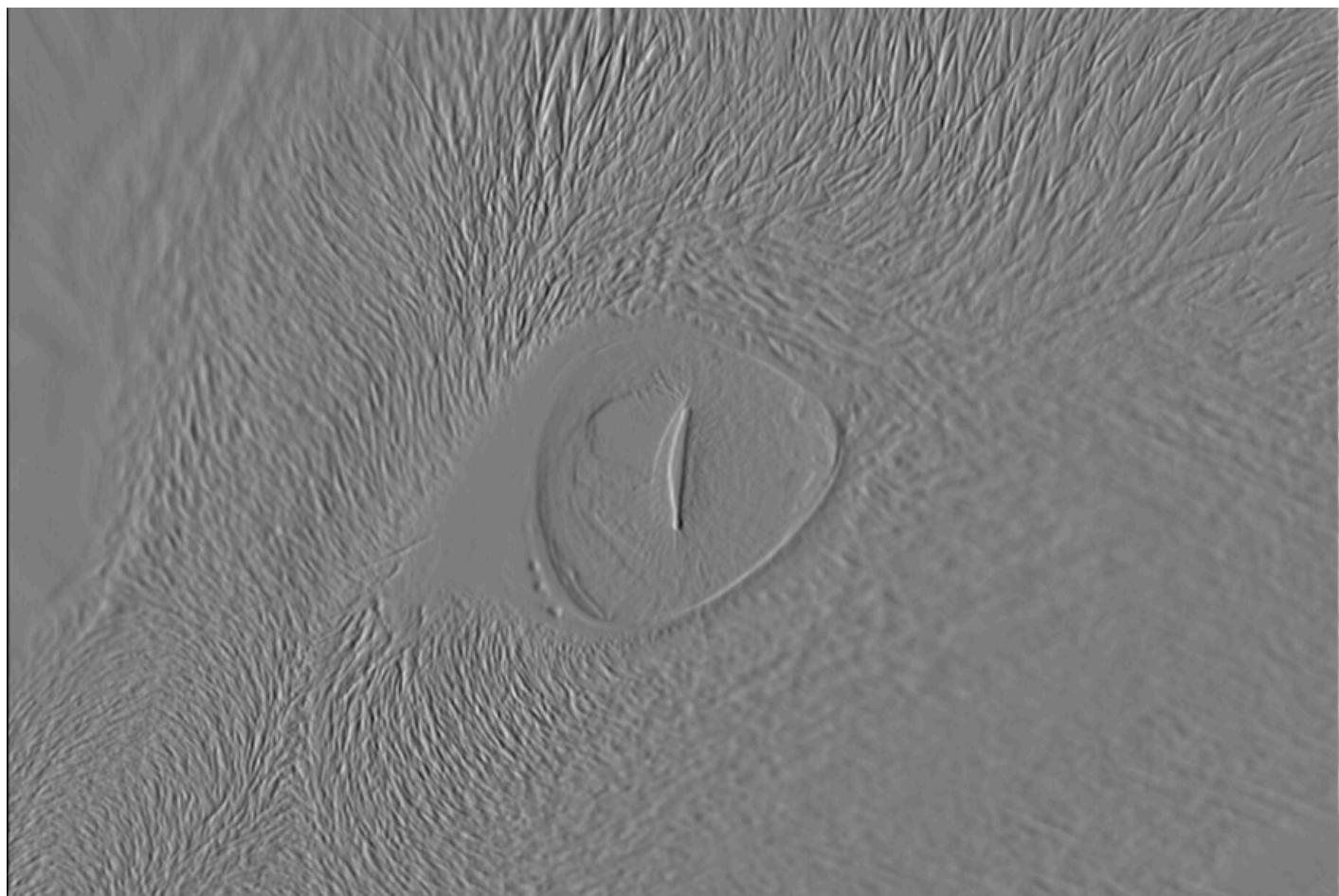


**Iteration 4**

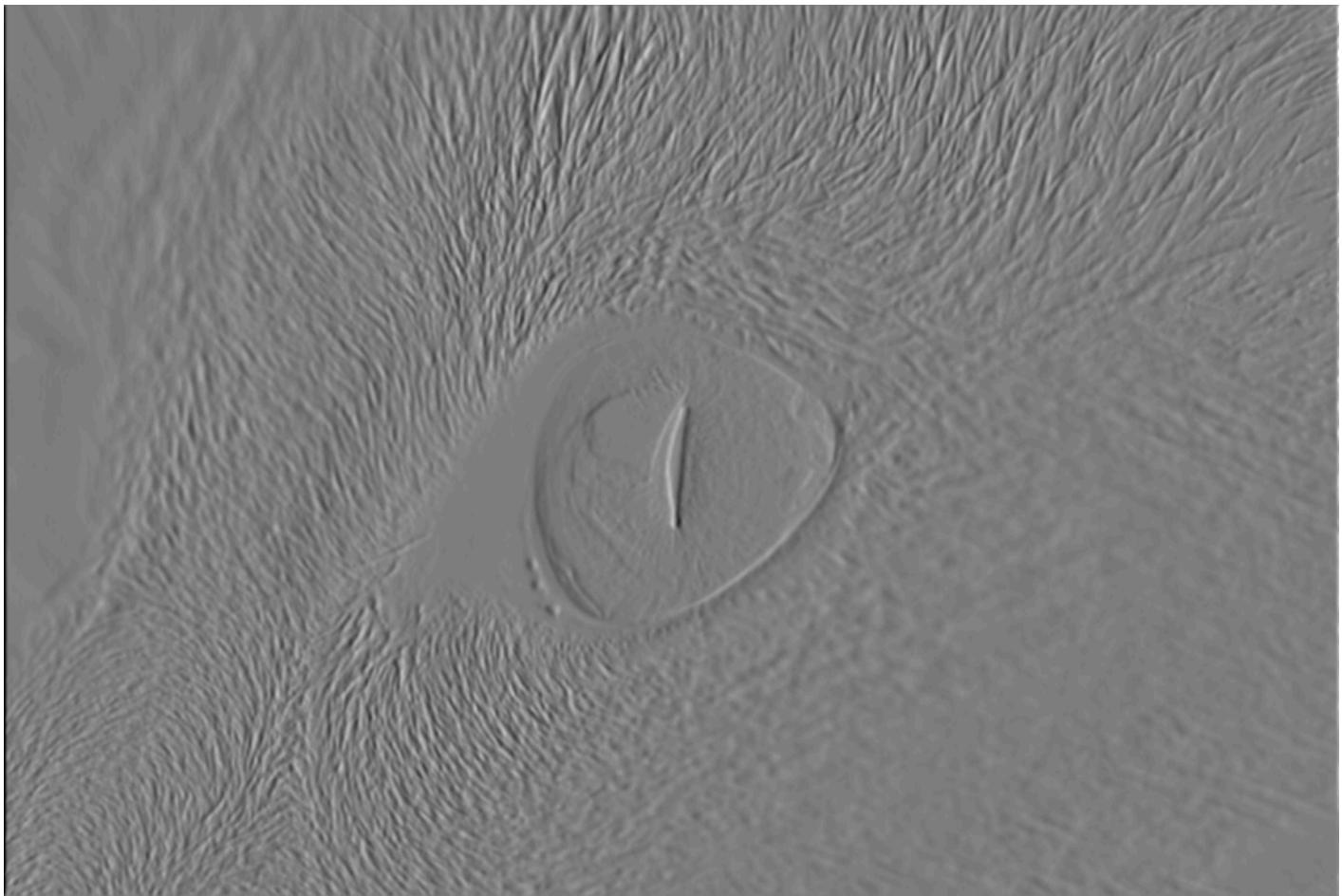


## Task 4: Horizontal Derivative

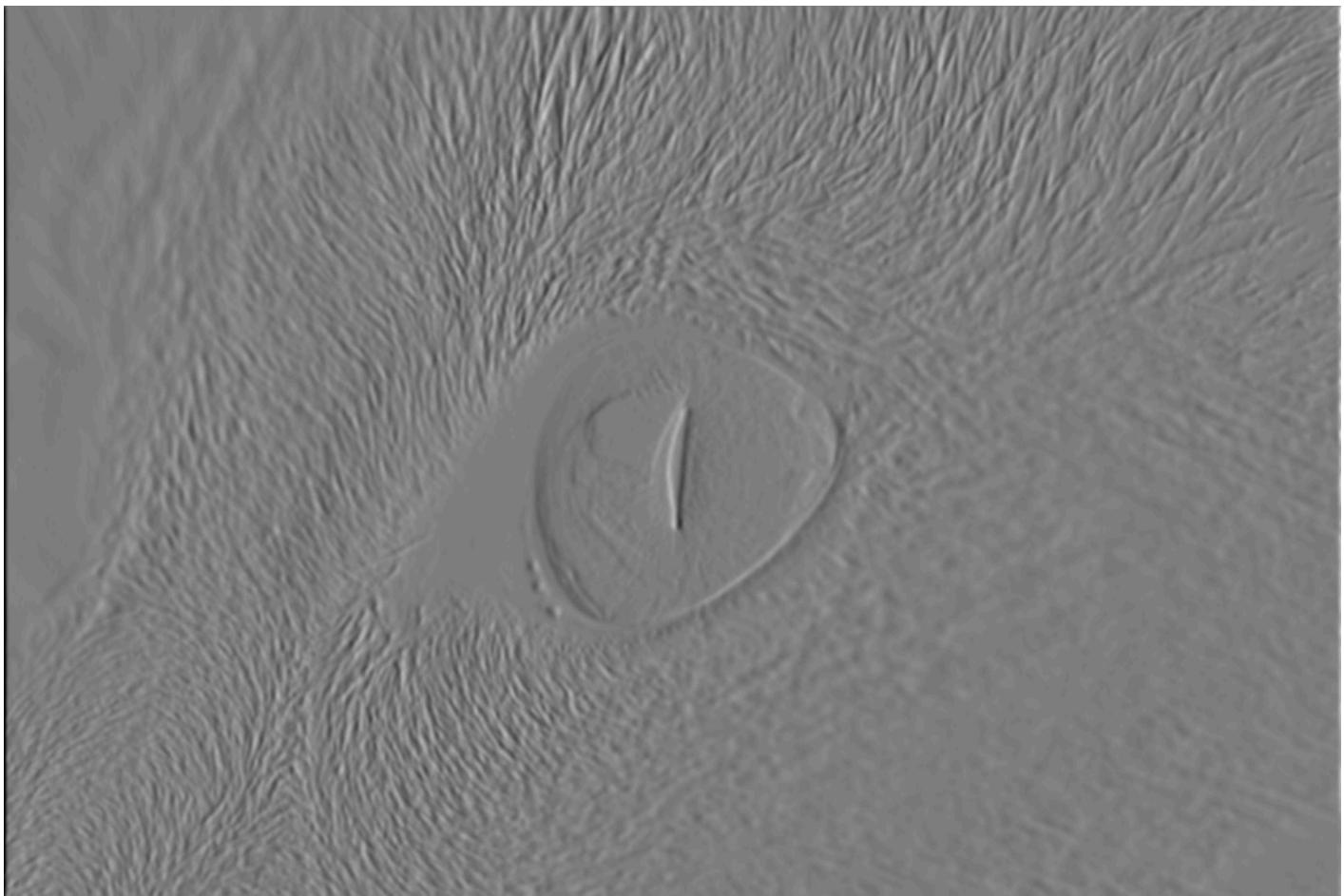
**Iteration 0**



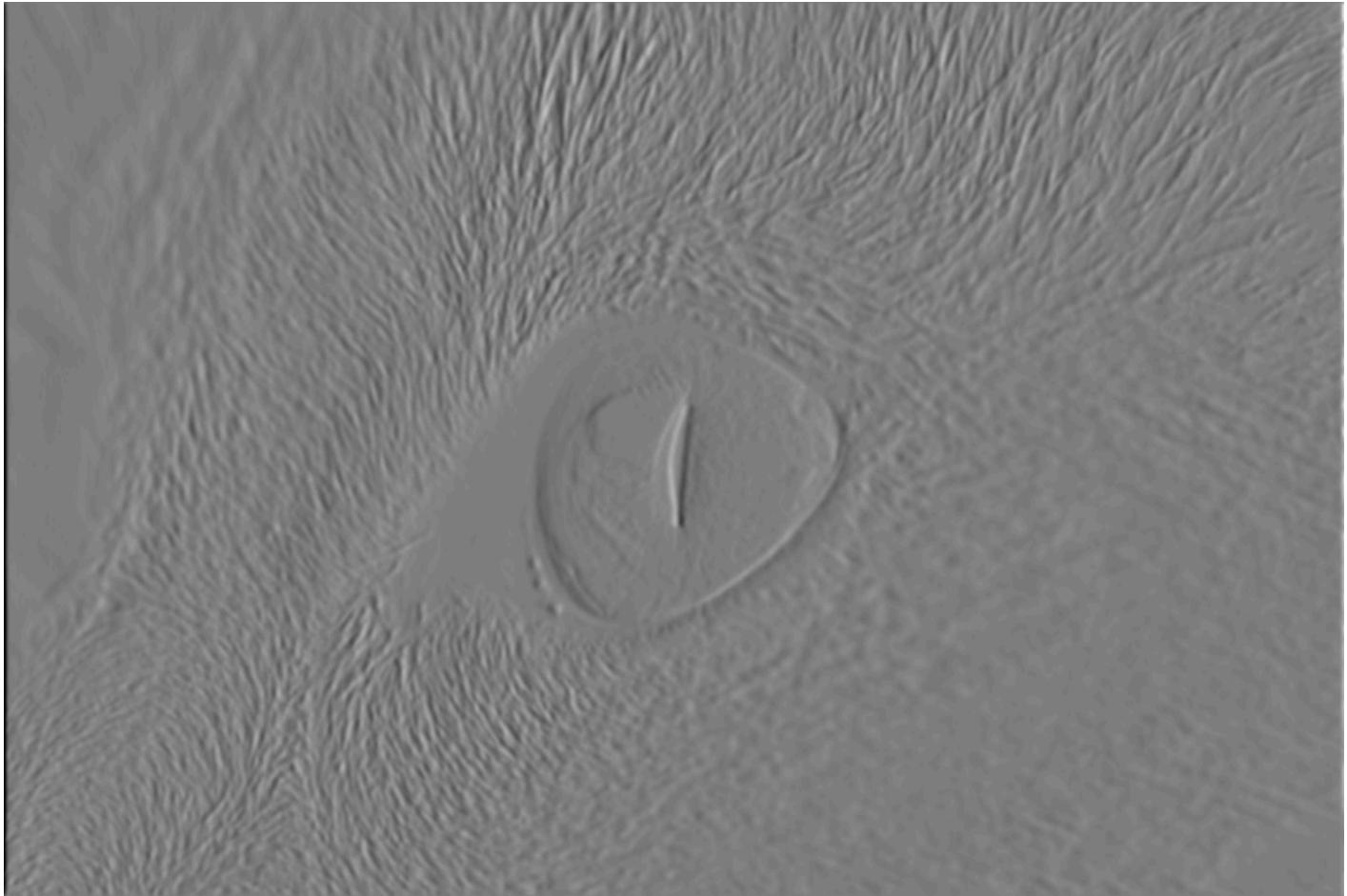
**Iteration 1**



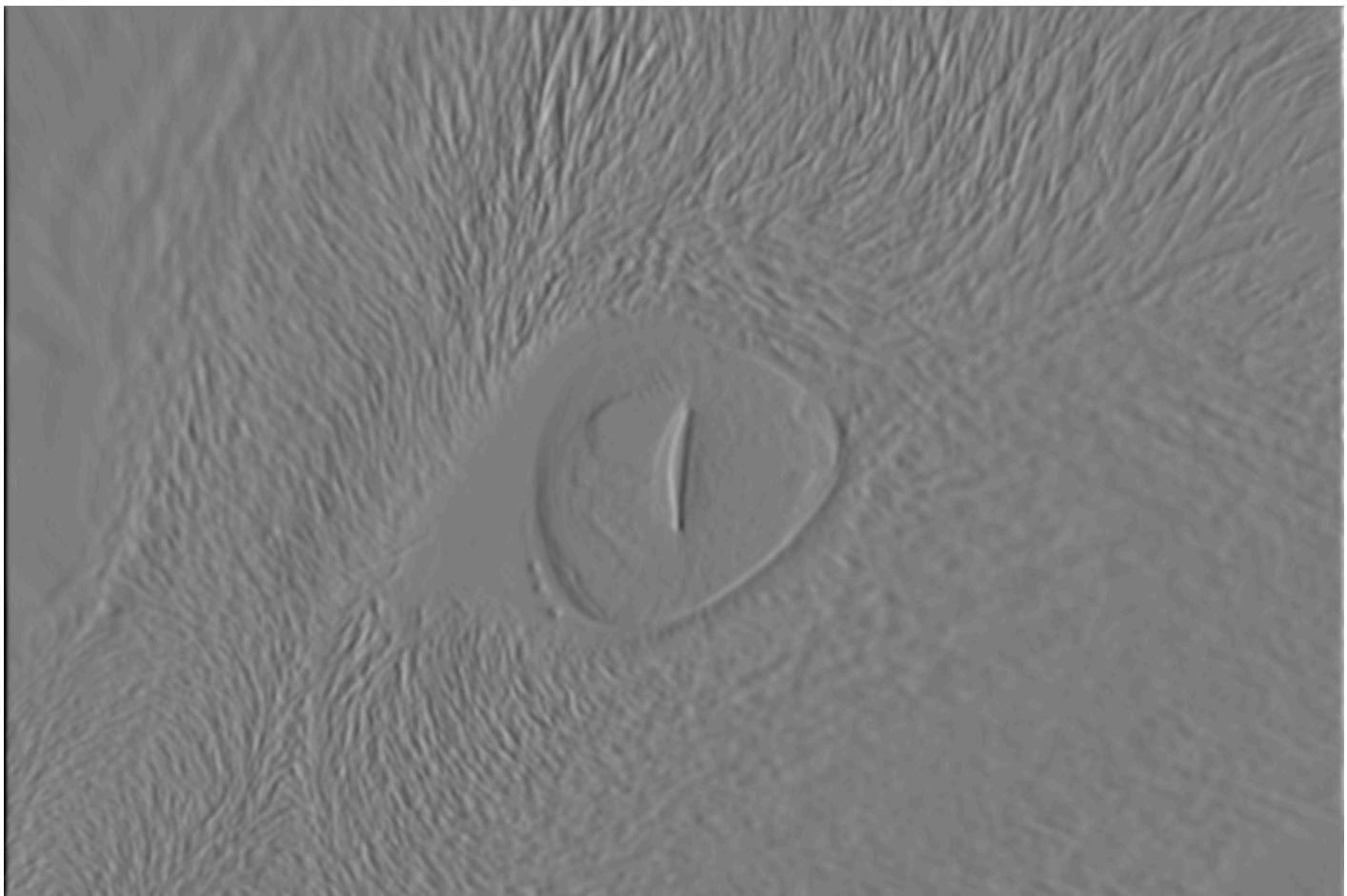
**Iteration 2**



**Iteration 3**



**Iteration 4**



## Task 5: Gradient Magnitude

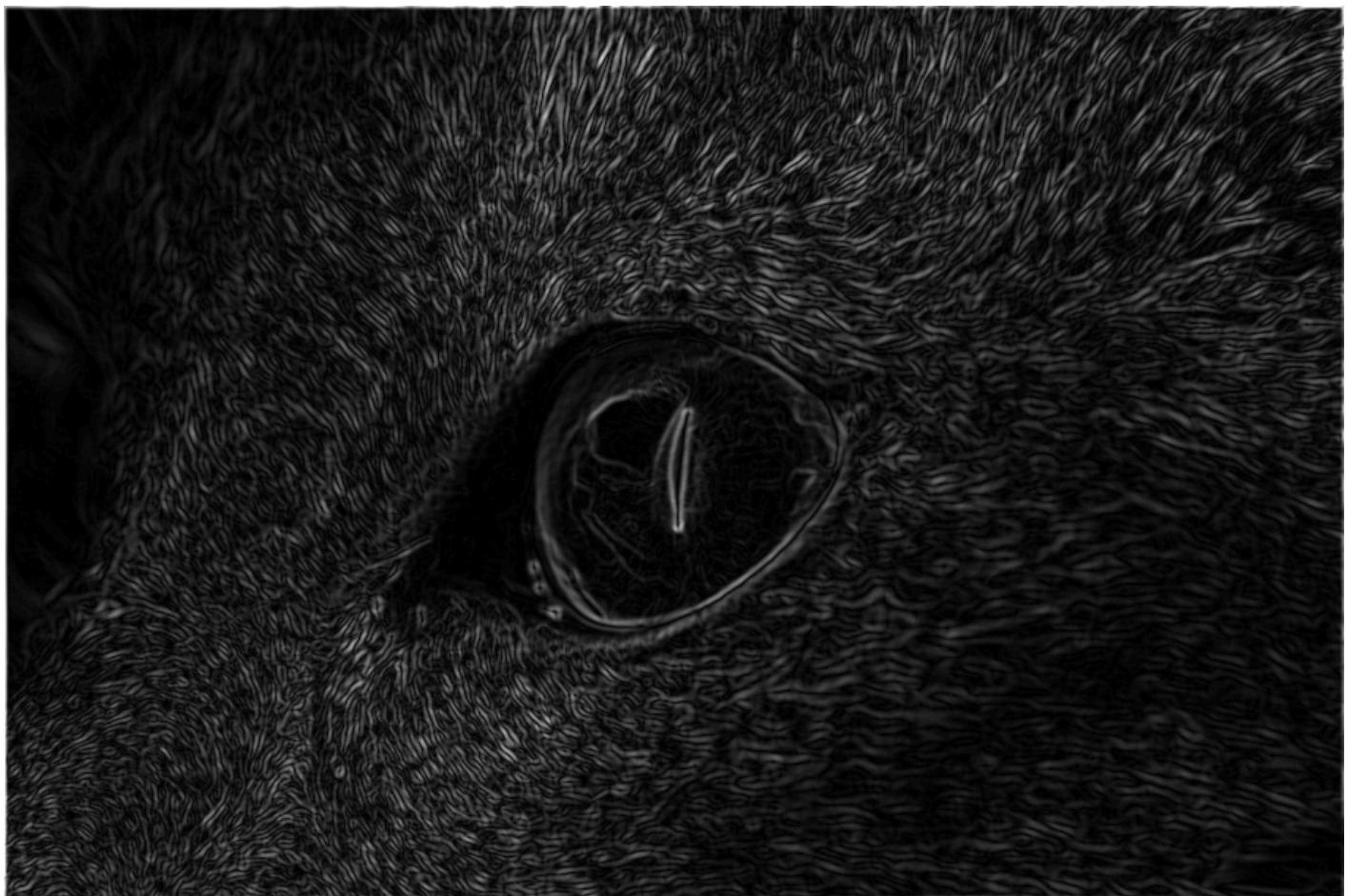
Iteration 0



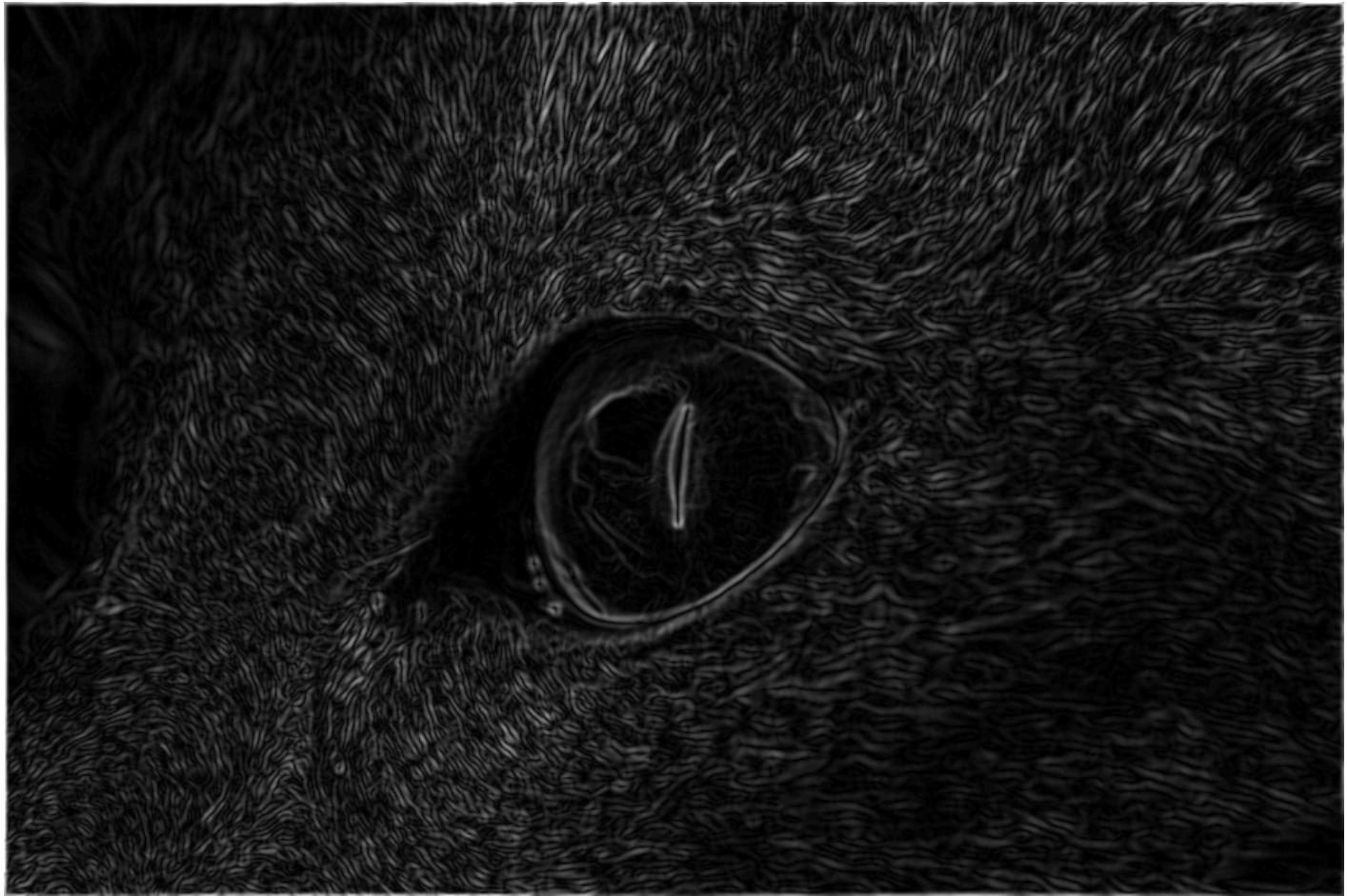
Iteration 1



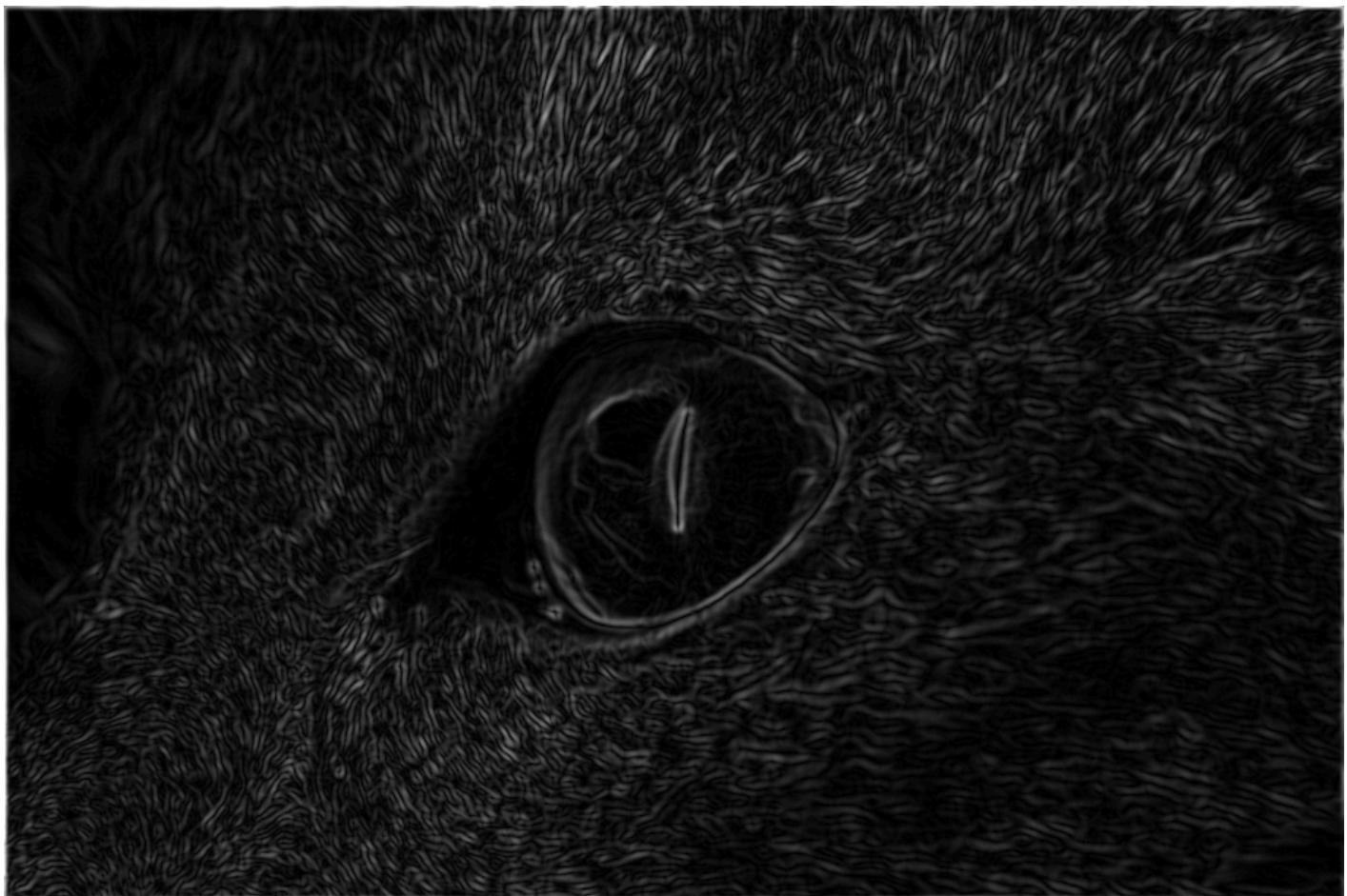
**Iteration 2**



**Iteration 3**

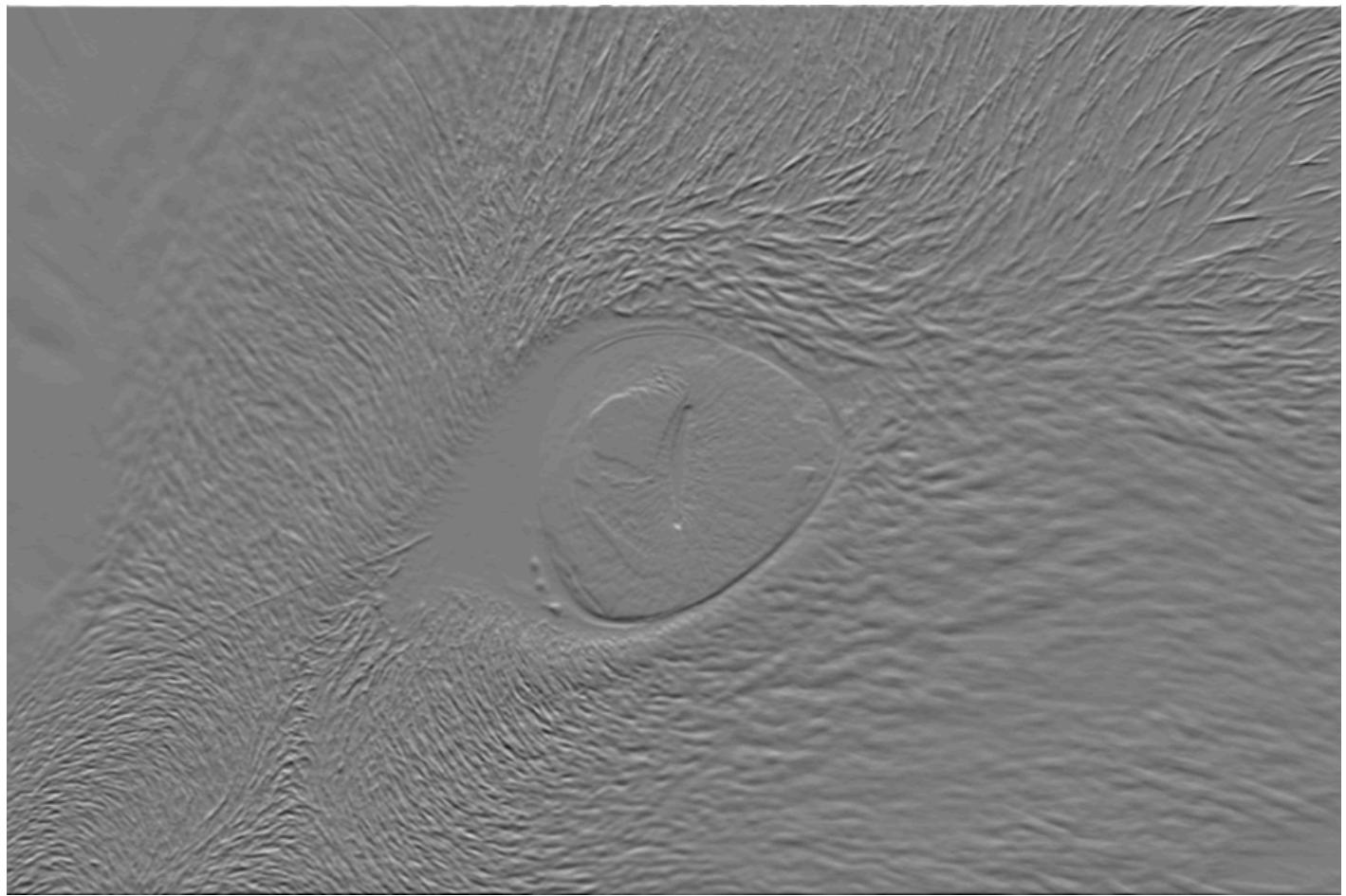


**Iteration 4**

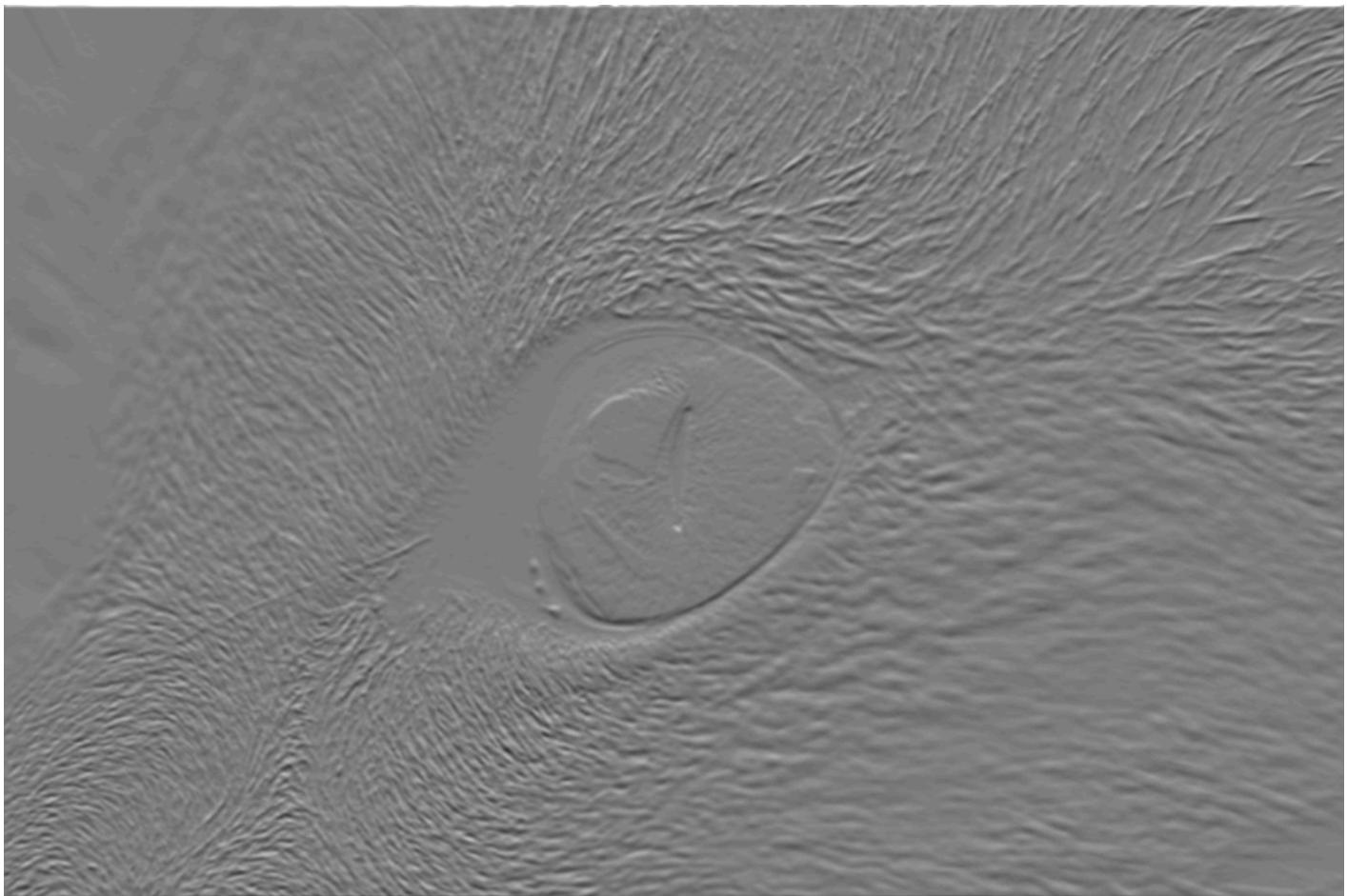


## Task 6: Scipy Convolution

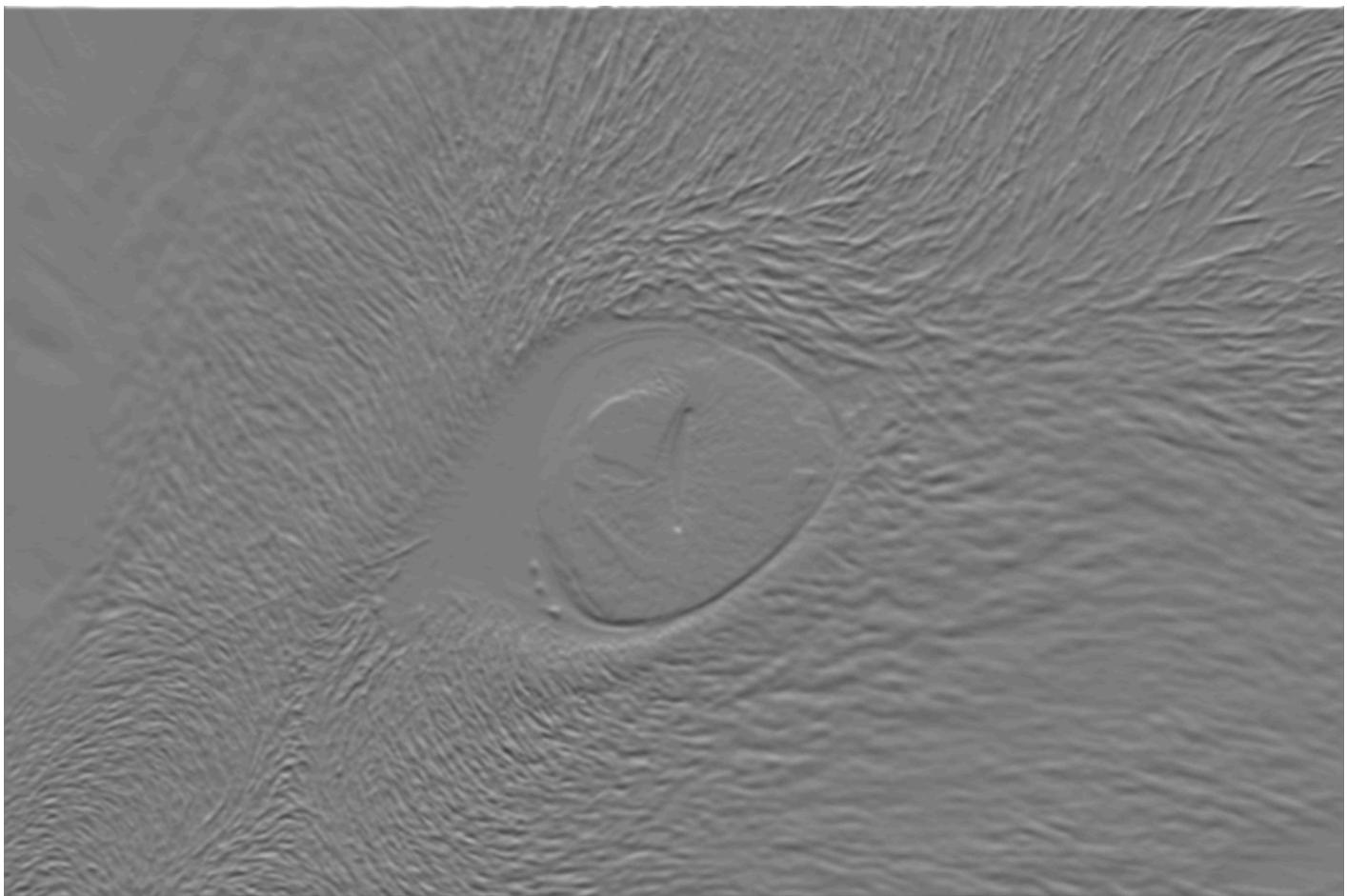
**Iteration 0**



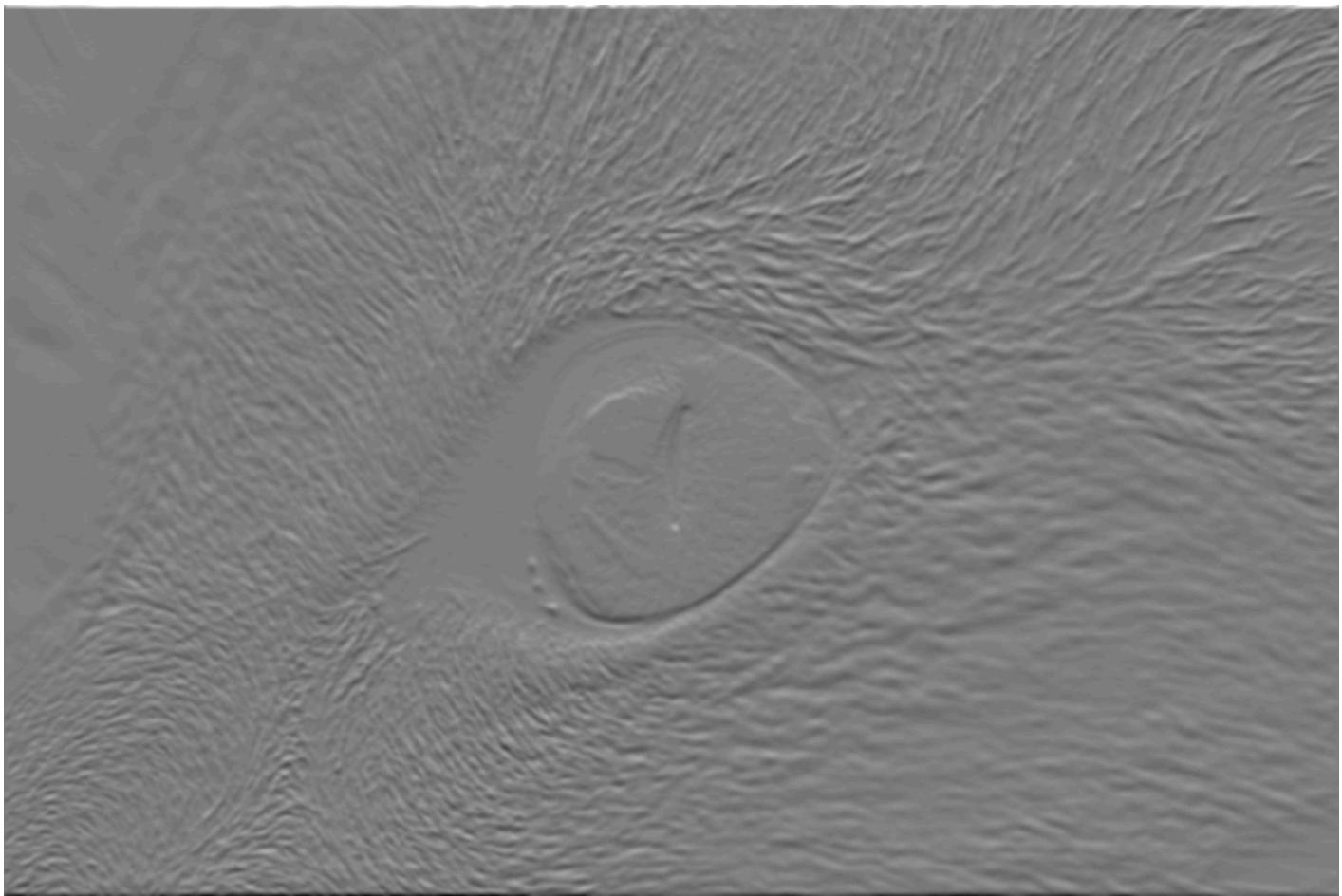
**Iteration 1**



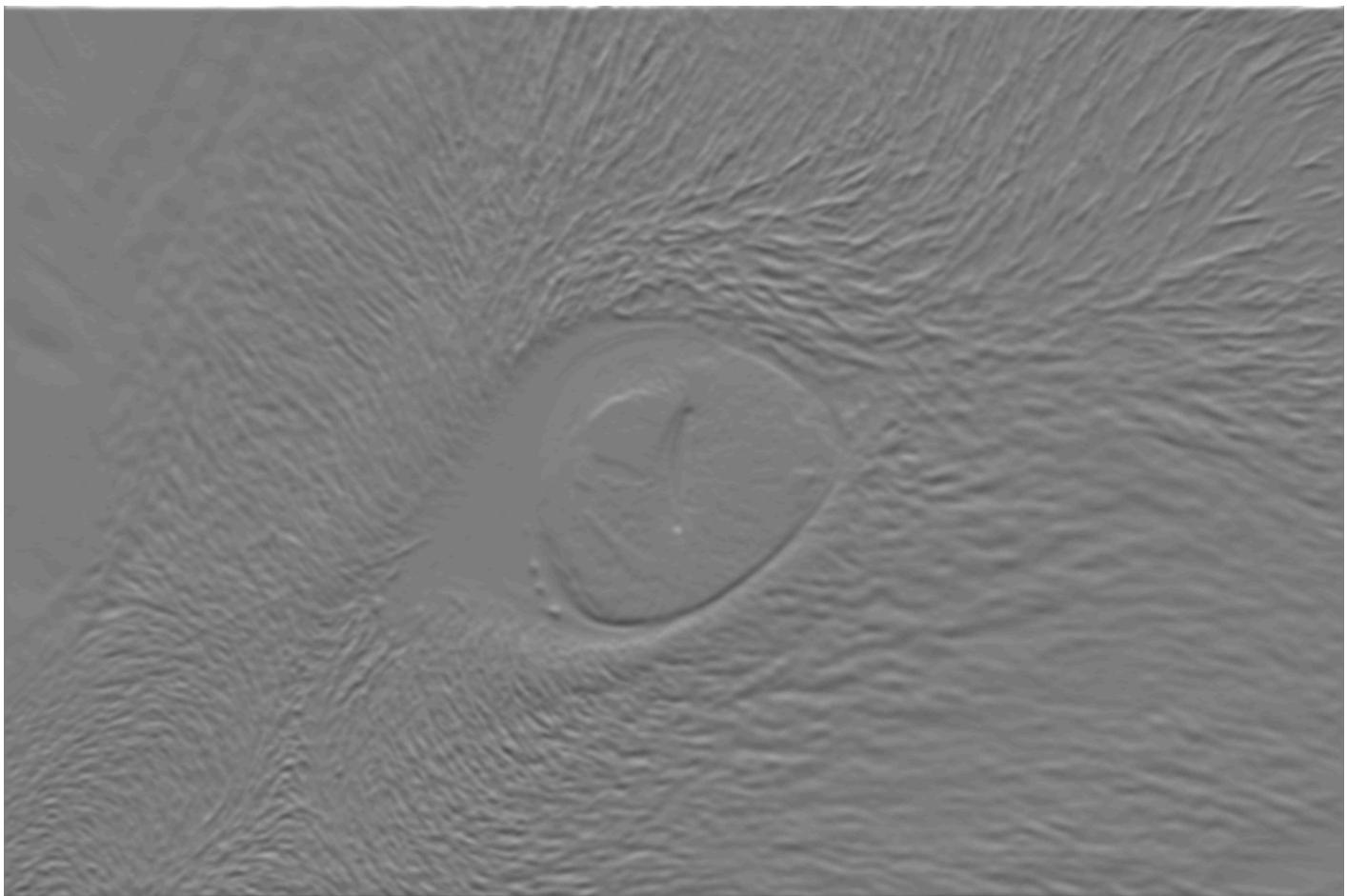
**Iteration 2**



**Iteration 3**

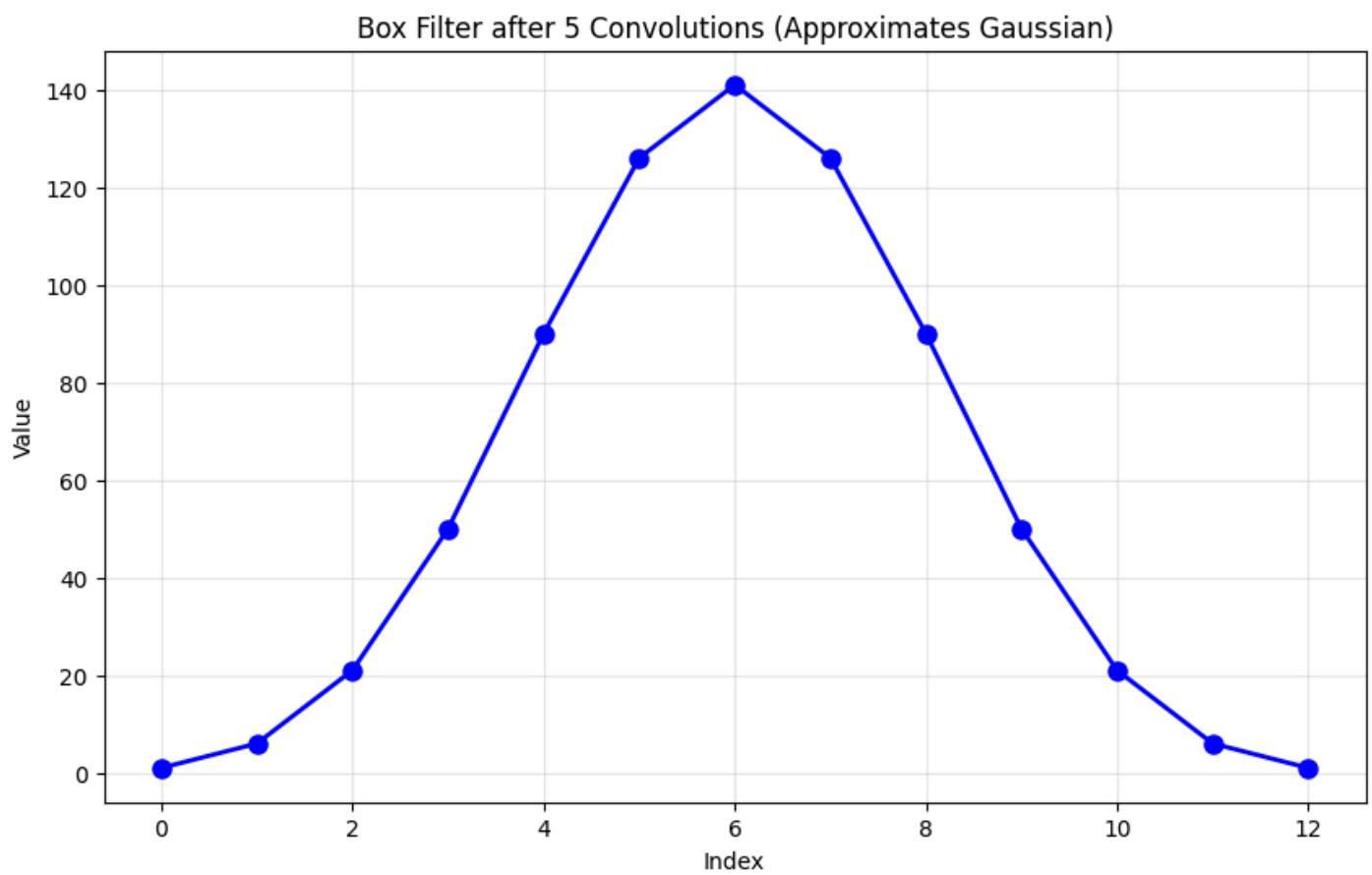


**Iteration 4**



## Task 7: Repeated Box Filter

### Graph



### Numeric Output

```
[1, 6, 21, 50, 90, 126, 141, 126, 90, 50, 21, 6, 1]
```