

## Lab 4 - Acoustic Emanation Attacks

### Computer Hardware and System Security(EECE5699)

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1. A table showing accuracy test for all 26 keys

Testing Model Accuracy on Test Files:			
Testing soundfile a-test.wav:	First: 7	Second: 0	Third: 0
Testing soundfile b-test.wav:	First: 6	Second: 1	Third: 1
Testing soundfile c-test.wav:	First: 3	Second: 3	Third: 1
Testing soundfile d-test.wav:	First: 5	Second: 2	Third: 1
Testing soundfile e-test.wav:	First: 6	Second: 1	Third: 1
Testing soundfile f-test.wav:	First: 4	Second: 3	Third: 1
Testing soundfile g-test.wav:	First: 0	Second: 4	Third: 2
Testing soundfile h-test.wav:	First: 1	Second: 3	Third: 1
Testing soundfile i-test.wav:	First: 0	Second: 0	Third: 0
Testing soundfile j-test.wav:	First: 7	Second: 1	Third: 0
Testing soundfile k-test.wav:	First: 4	Second: 1	Third: 2
Testing soundfile l-test.wav:	First: 6	Second: 0	Third: 2
Testing soundfile m-test.wav:	First: 5	Second: 0	Third: 0
Testing soundfile n-test.wav:	First: 7	Second: 1	Third: 0
Testing soundfile o-test.wav:	First: 5	Second: 2	Third: 1
Testing soundfile p-test.wav:	First: 7	Second: 1	Third: 0
Testing soundfile q-test.wav:	First: 5	Second: 1	Third: 0
Testing soundfile r-test.wav:	First: 5	Second: 3	Third: 0
Testing soundfile s-test.wav:	First: 6	Second: 1	Third: 0
Testing soundfile t-test.wav:	First: 7	Second: 1	Third: 0
Testing soundfile u-test.wav:	First: 3	Second: 3	Third: 1
Testing soundfile v-test.wav:	First: 3	Second: 0	Third: 1
Testing soundfile w-test.wav:	First: 7	Second: 0	Third: 0
Testing soundfile x-test.wav:	First: 7	Second: 0	Third: 0
Testing soundfile y-test.wav:	First: 6	Second: 1	Third: 0
Testing soundfile z-test.wav:	First: 5	Second: 1	Third: 0

## 2. Recovered secret

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Recovering Secret Data:

Secret File: secret0.wav
Secret Predictions:
First Most likely:password
Second likely:uszdrpsu
Third likely:qgwaudwp

Secret File: secret1.wav
Secret Predictions:
First Most likely:roodroot
Second likely:eipuoqqe
Third likely:dmkwdupw

Secret File: secret2.wav
Secret Predictions:
First Most likely:weatdear
Second likely:qfshadsd
Third likely:ssdfssda
```

## 3. Best Guesses for the Keys:

Secret0.wav: **password**

Secret1.wav: **rootroot**

Secret2.wav: **eastward**