

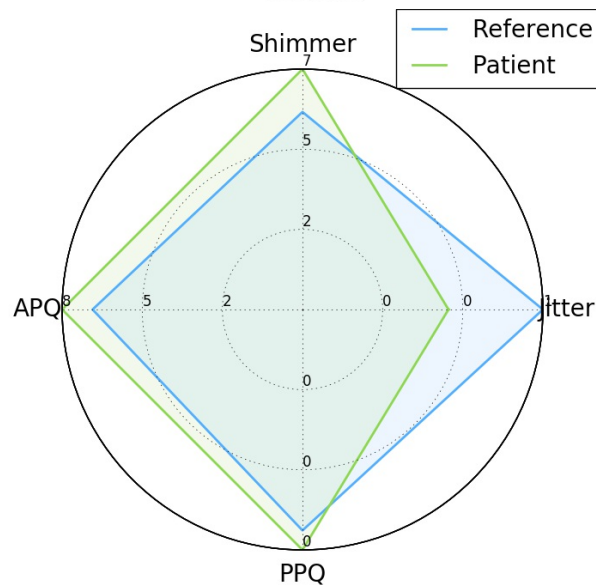
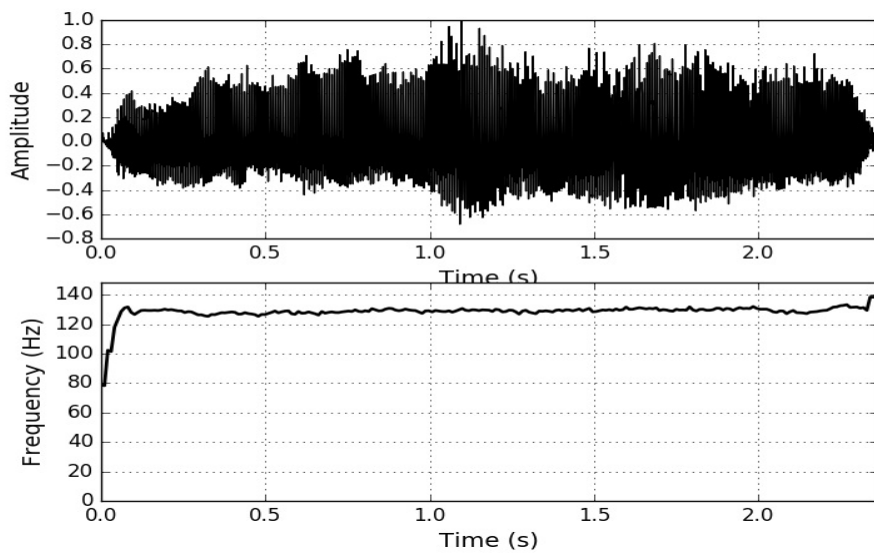
# NEURO SPEECH



## 1. Patient

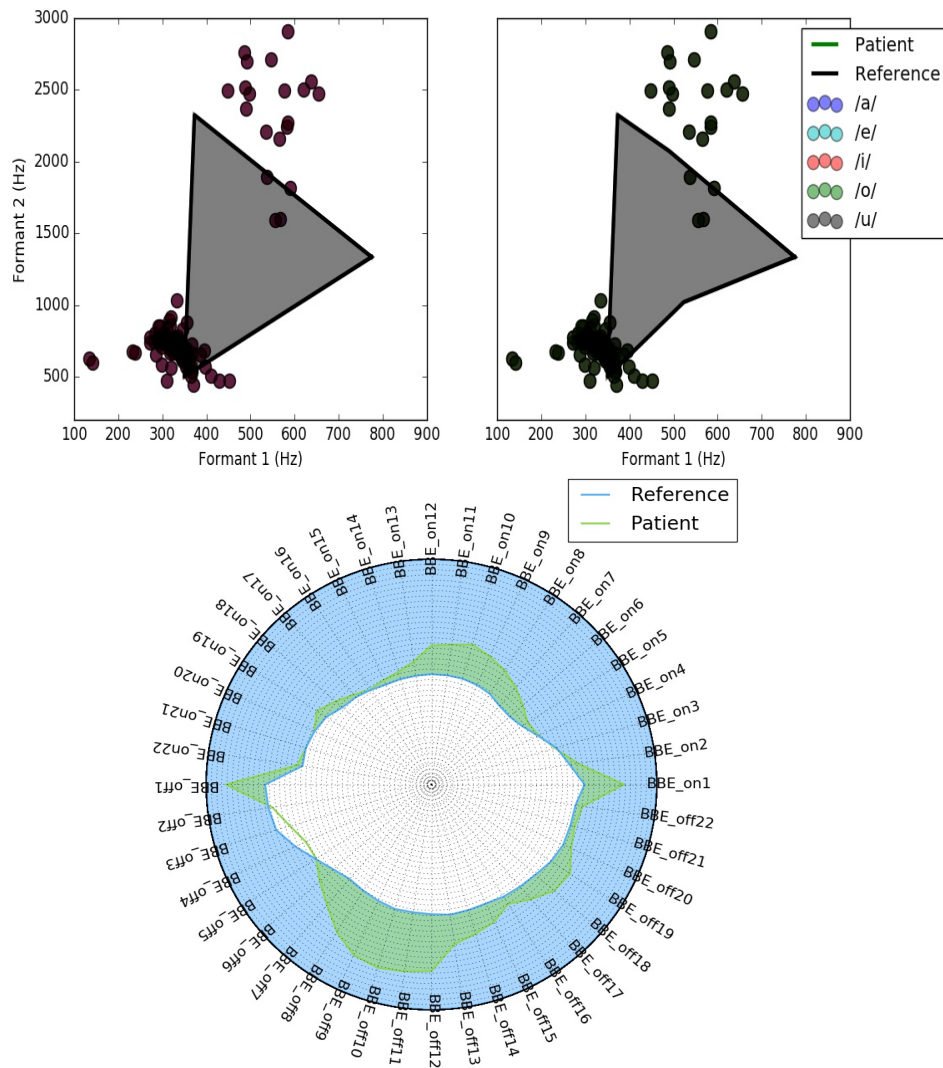
- First Name:
- Last Name:

## 2. Phonation Analysis



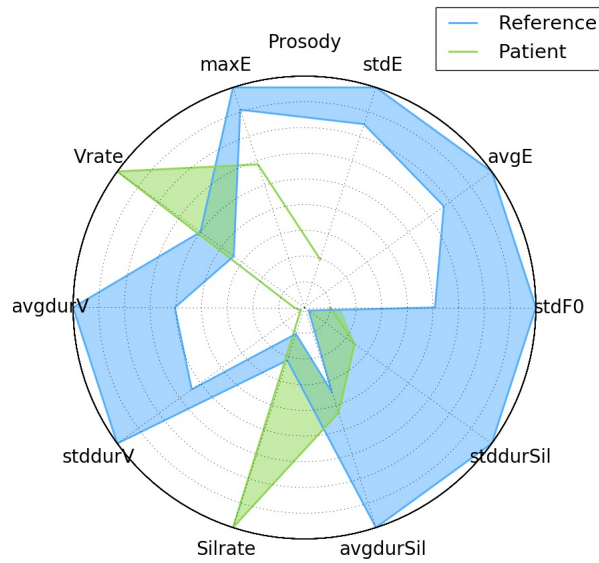
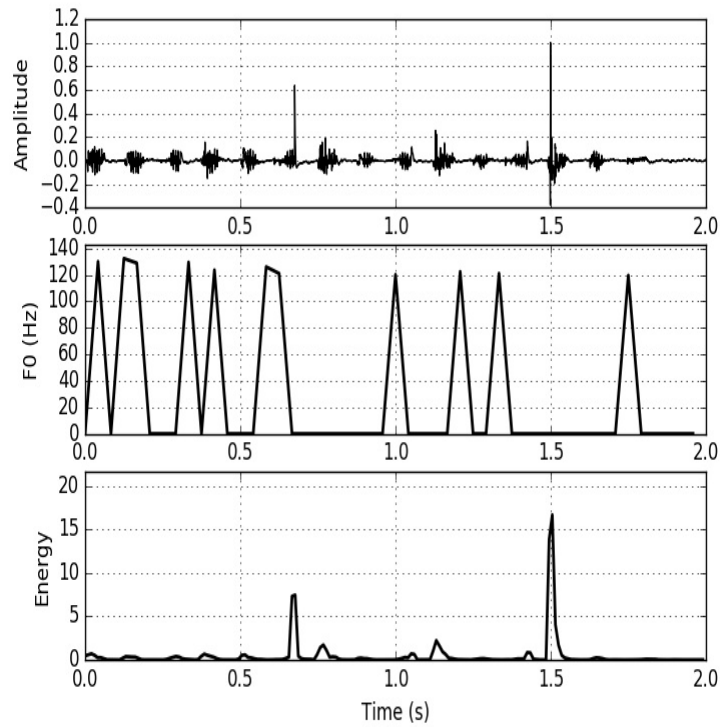
Feature	Value	Reference
Jitter (%)	0.73	0.00→ 1.20
Shimmer (%)	7.67	2.80→ 6.30
APQ	8.82	3.10→ 7.70
PPQ	0.47	0.00→ 0.43
Energy (dB)	15.97	12.70→ 17.20

## 2. Articulation Analysis



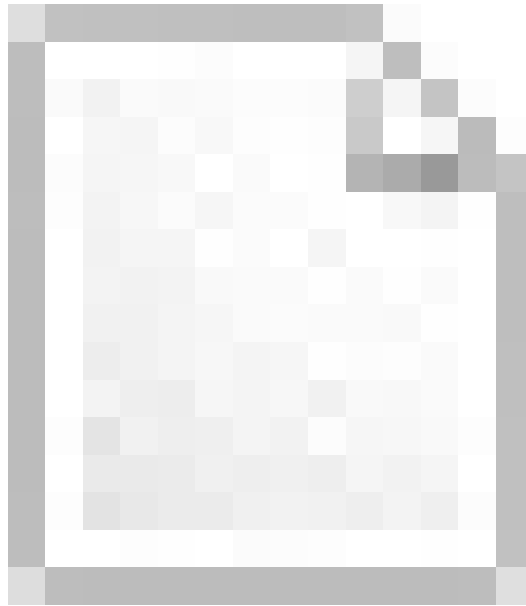
Feature	Value	Reference
F1/a/ (Hz)	364.15	643→ 908
F2/a/ (Hz)	994.07	1160→ 1510
F1/i/ (Hz)	364.15	275→ 470
F2/i/ (Hz)	994.07	2100→ 2550
F1/u/ (Hz)	364.15	350→ 490
F2/u/ (Hz)	994.07	600→ 1600
VSA (Hz2)	0.00	534000→ 1073000
FCR	2.00	0.84→ 1.27

## 3. Prosody Analysis



Feature	Value	Reference
Voiced Rate (1/s)	4.50	1.7 → 2.5
Avg. Dur. Voiced (ms)	23.28	292 → 521
Std. Dur. Voiced (ms)	7.19	209 → 347
Silence Rate (1/s)	2.50	0.3 → 0.6
Avg. Dur. Silence (ms)	261.16	211 → 547
Std. Dur. Silence (ms)	72.56	6 → 271
Avg. Energy (dB)	-3.66	7.0 → 9.4
Std. Energy (dB)	2.37	16.9 → 18.8
Avg. F0 (Hz)	125.05	142 → 229
Std. F0 (Hz)	4.34	22 → 38

#### 4. Intelligibility Analysis



Feature	Value	Reference
Word Accuracy	0	0.85→ 1.0
Sim DTW	0.213636	0.9→ 1.0

## 5. Dysarthria Level (m-FDA)

Feature	Value	Reference
Respiration capability	3.0	0→ 4
Lips movement	1.0	0→ 4
Palate movement	3.0	0→ 4
Larinx movement	2.0	0→ 4
Tongue velocity	3.0	0→ 4
Intelligibility	1.0	0→ 4
Total m-FDA	10.0	0→ 52
Total MDS-UPDRS-III	5.0	0→ 128

