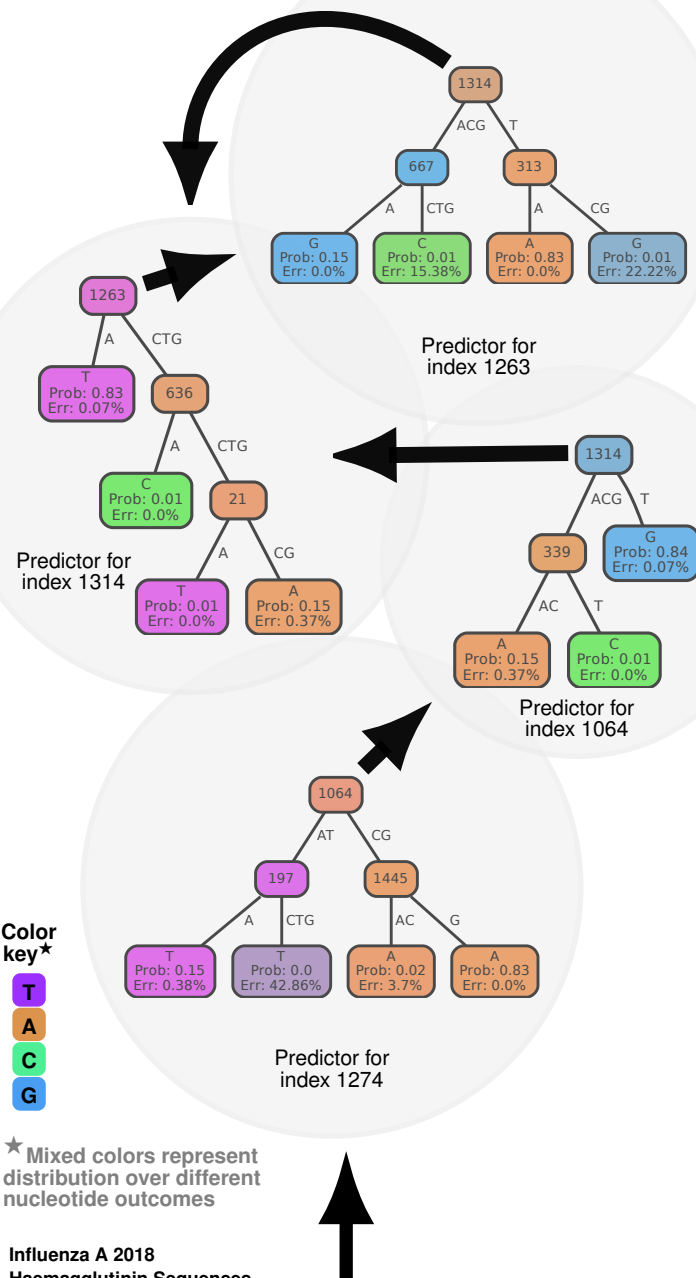
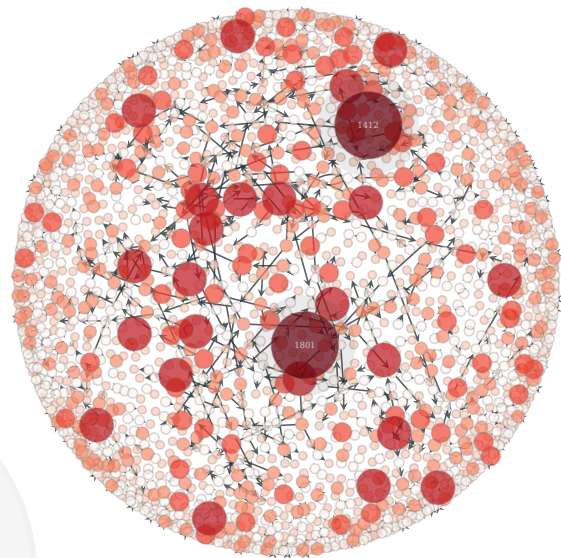


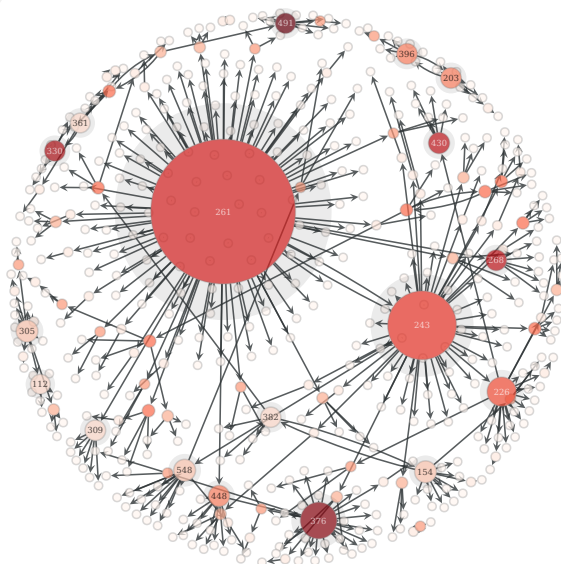
a. Portion of Recursive Forest Underlying Q-Net Inferred for Human Influenza A HA 2018-19 Season



b. SARS-CoV-2 Spike Jan-Mar 20
(COVID-19 Pandemic 2019)



C. Human Influenza A HA 2008-9[†]
(Coinciding Swine Flu Pandemic 2009)



† Denser color & larger size implies more connections

Influenza A 2018 Haemagglutinin Sequences

GGAAACAAAAGCAACAAAA..TGA**A**AAAAGA..CGCCAGTTCAITGGTACTGG
AGCAAAAGCAGGGGAAAAACA..GTT**C**AACCAC..CTATTCAACTGCCGCCAGTT
AGCAAAAGCAGGGGAAAAACA..GTT**T**AACCAC..CTATTCAACTGTCGCCAGTT
ATGAAGACTACTATTGCTTT..ACC**T**TGAGAA..GTGTGCTTGTTCGGGGTTO

A/Italy/7366/2018
 A/Baltimore/P0264/2018
 A/Baltimore/P0278/2018
 A/Florida/61/2018