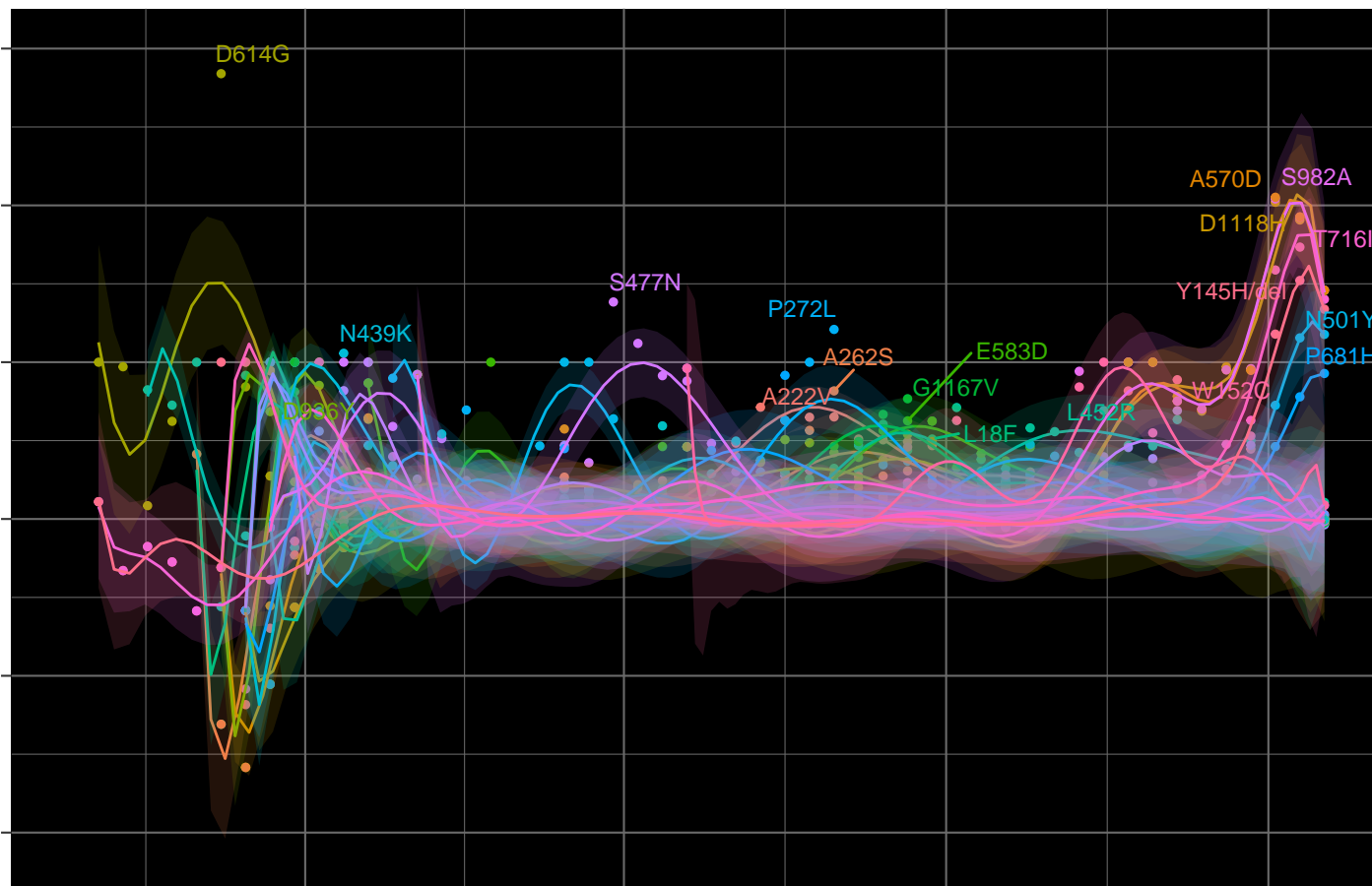


# Emergence of SARS-CoV-2 spike protein variants

Weekly normalized change in abundance (%)

300  
200  
100  
0  
-100  
-200



Apr 2020

Jul 2020

Oct 2020

Jan 2021

Date

Variant

A222V	M153T
A262S	N439K
A570D	N501Y
A688V	P272L
D1118H	P681H
D1163Y	Q677H
D614G	R21I
D80Y	S13I
D936Y	S477N
E583D	S982A
G1167V	S98F
L176F	T716I
L18F	V1176F
L452R	W152C
L5F	Y145H/del