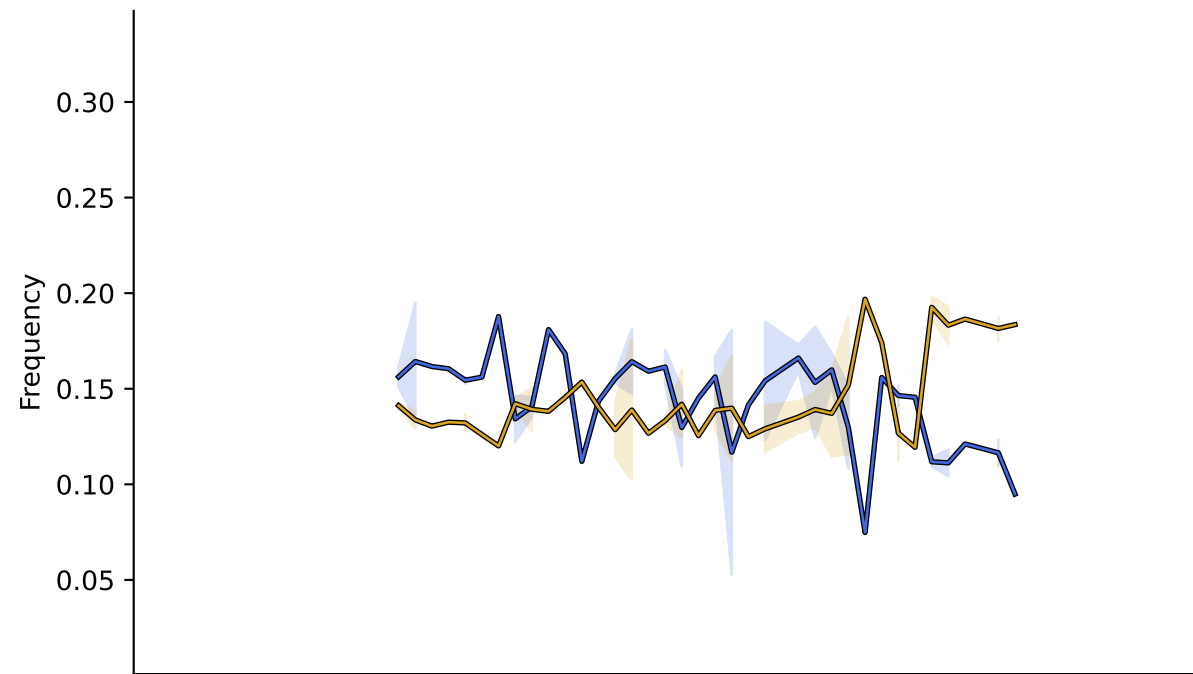
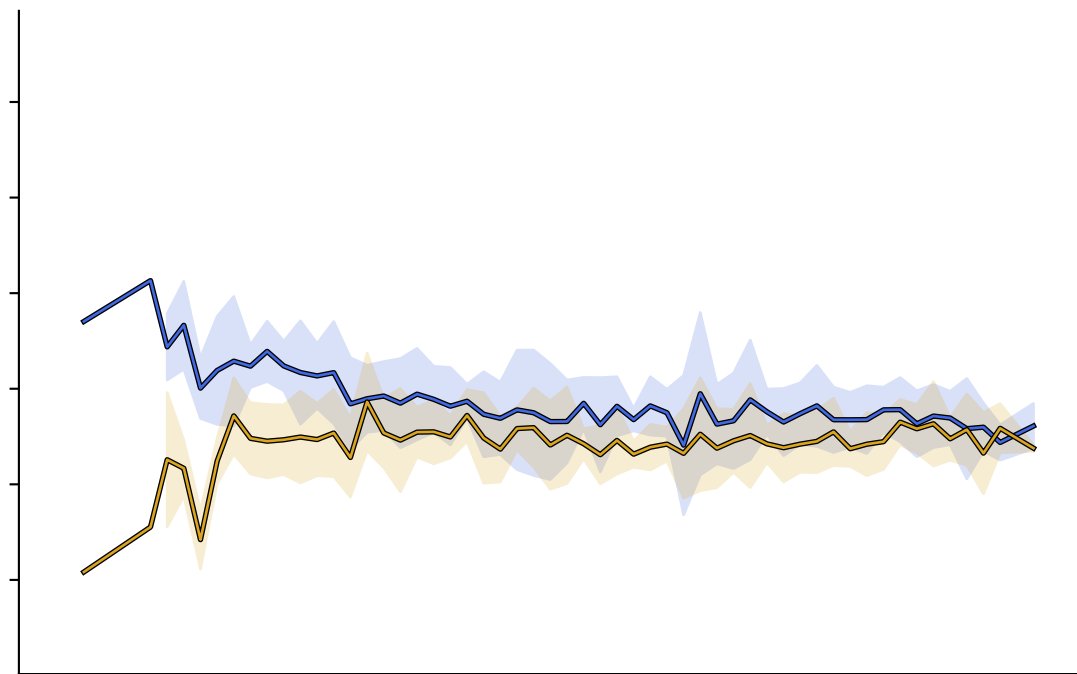


Frequencies of charged amino acids

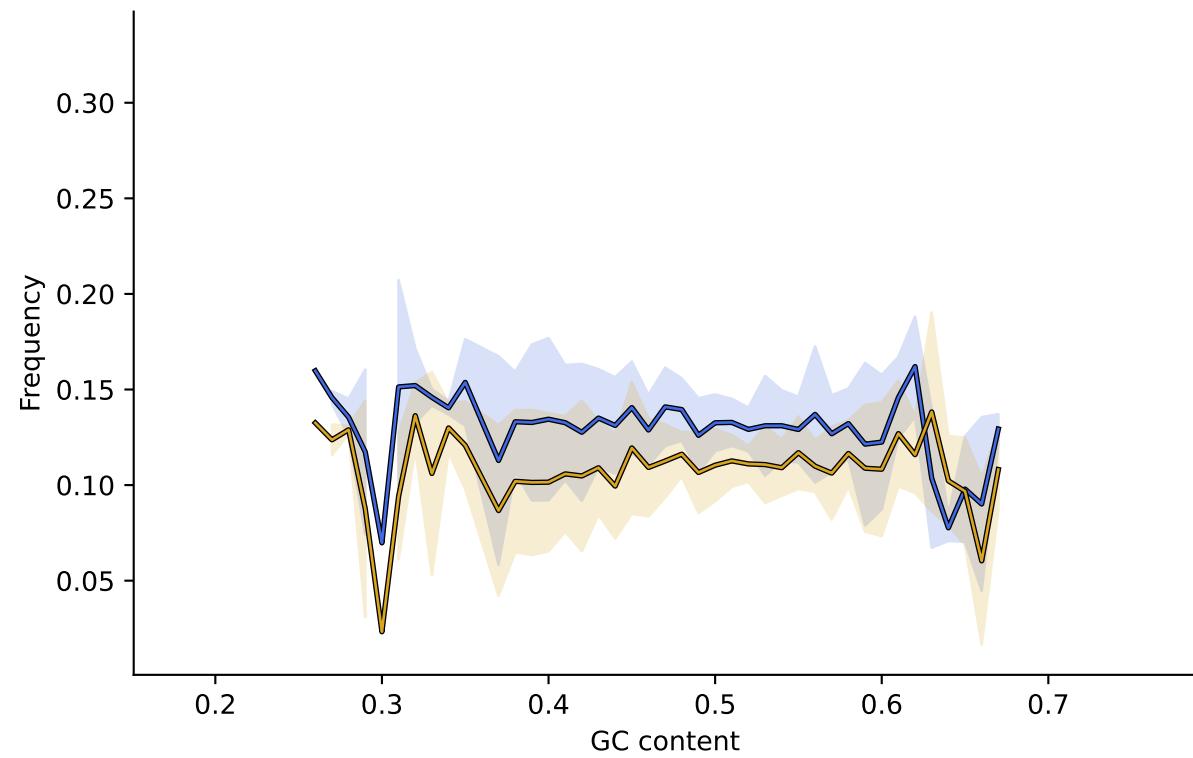
Archaea, $r_s = -0.471$, $p = 5.864 \times 10^{-5}$



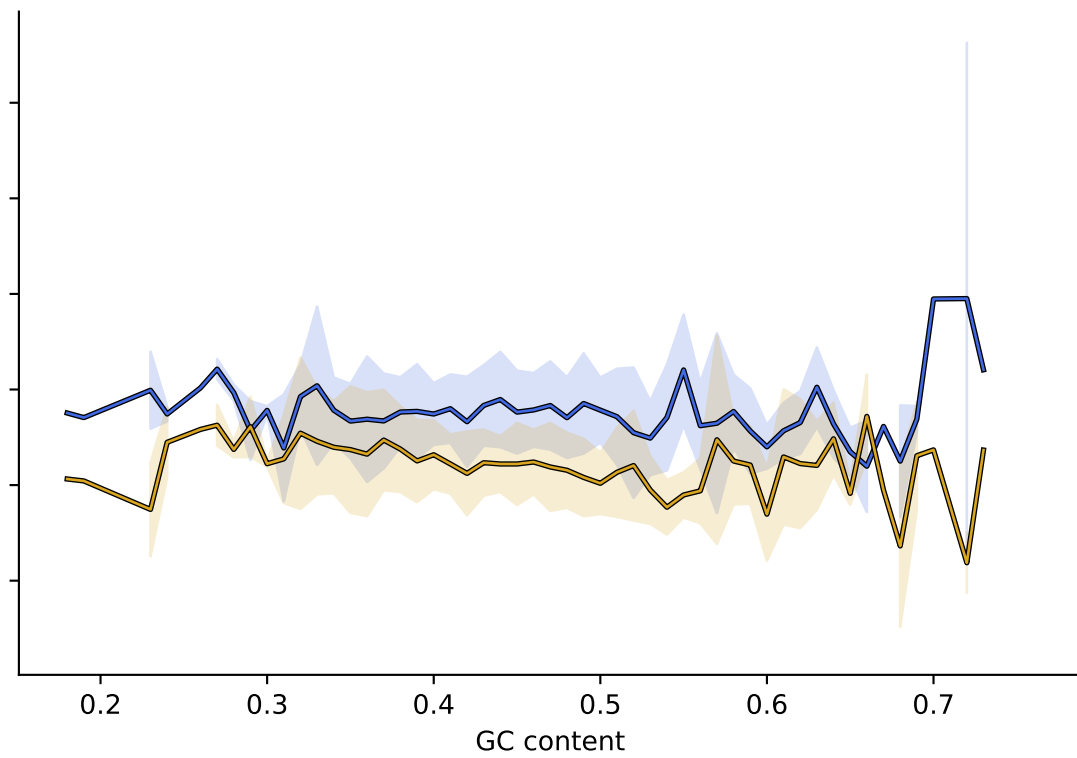
Bacteria, $r_s = 0.243$, $p = 1.436 \times 10^{-10}$



Eukaryotes, $r_s = 0.456$, $p = 2.947 \times 10^{-30}$



Viruses, $r_s = 0.307$, $p = 9.402 \times 10^{-17}$



Positive charged AA
Negative charged AA