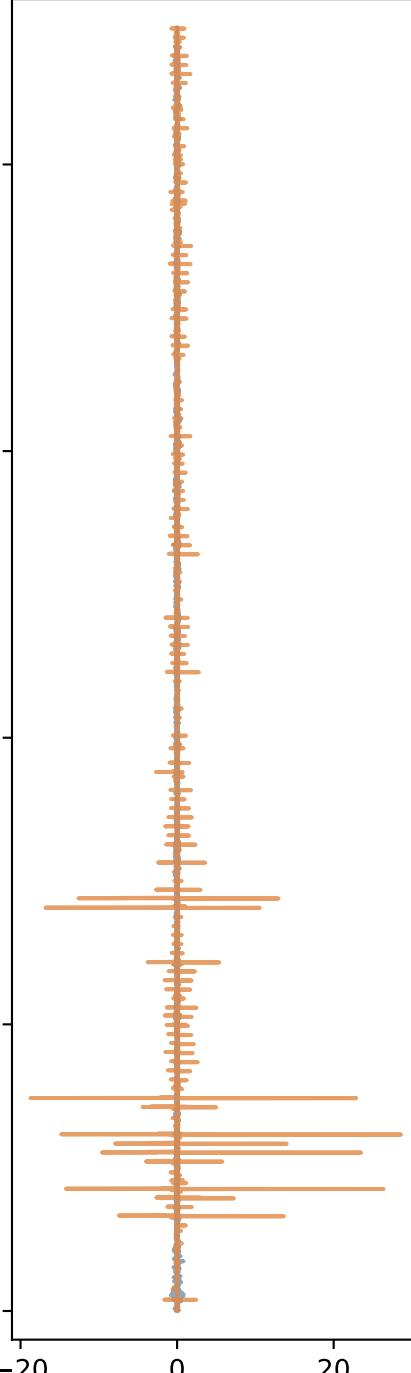


Relationships between Gamma and other features - No despiking CWE_BlakeCollierState25281H_MDS

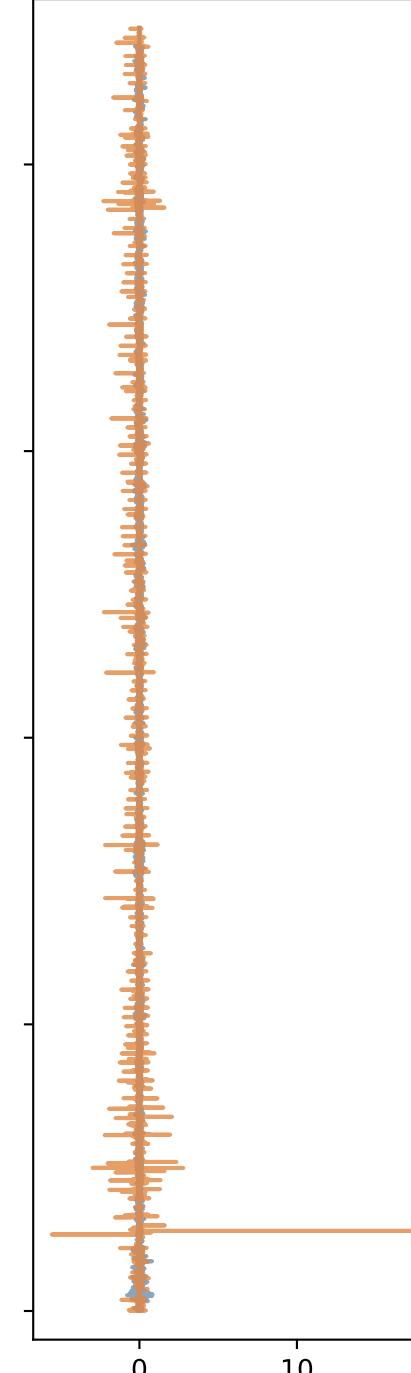
Gamma(gapi)
ROP(ft / min)

Correlation
 $r = 0.0056$



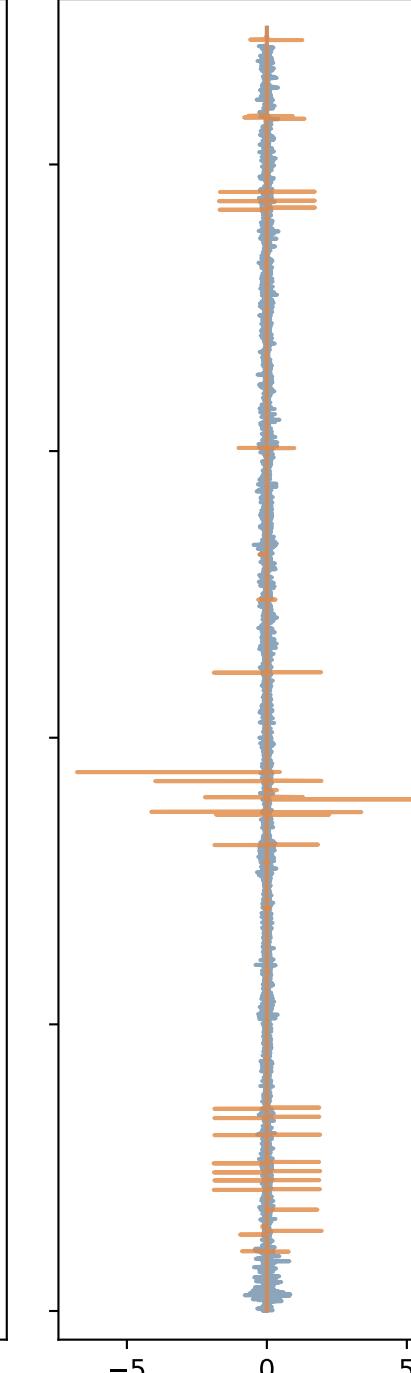
Gamma(gapi)
WOB(klbs)

Correlation
 $r = 0.0101$



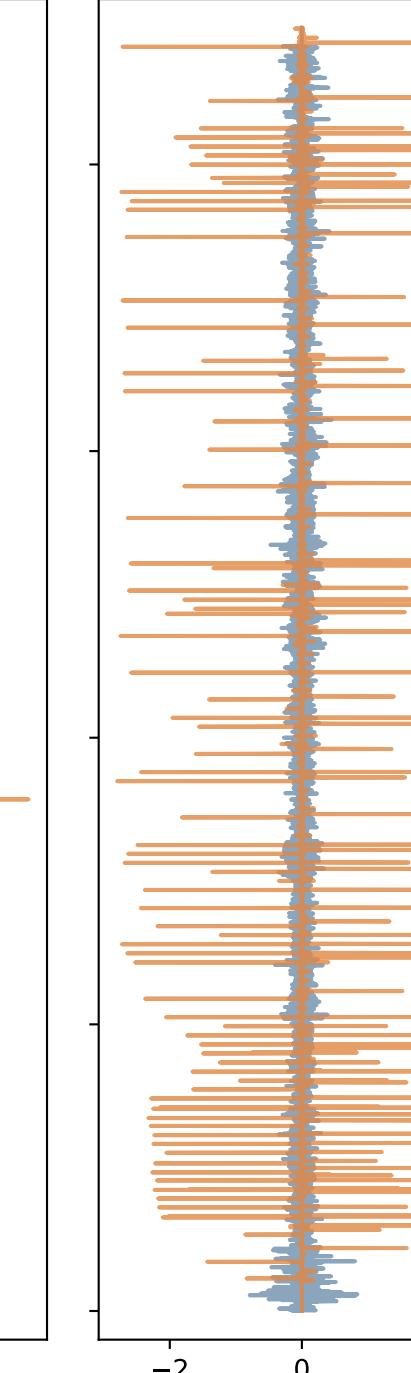
Gamma(gapi)
TPO(gal / min)

Correlation
 $r = 0.0253$



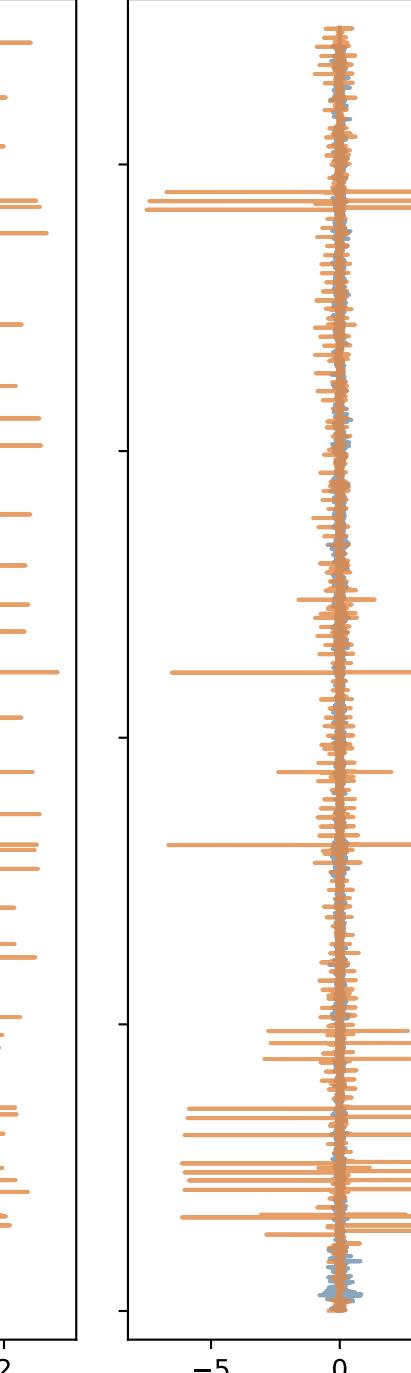
Gamma(gapi)
RPM(rpm)

Correlation
 $r = 0.0139$



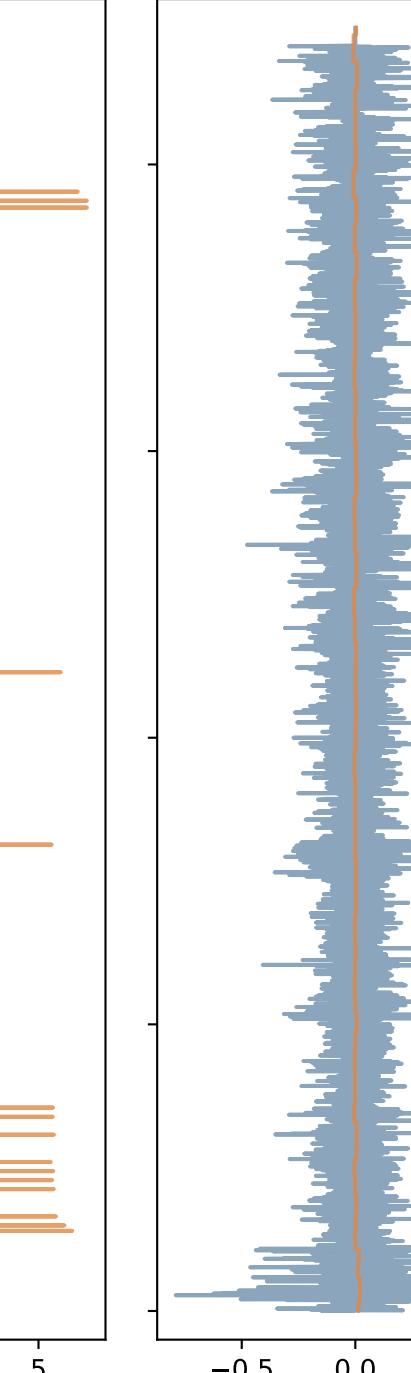
Gamma(gapi)
SPP(psi)

Correlation
 $r = 0.0132$



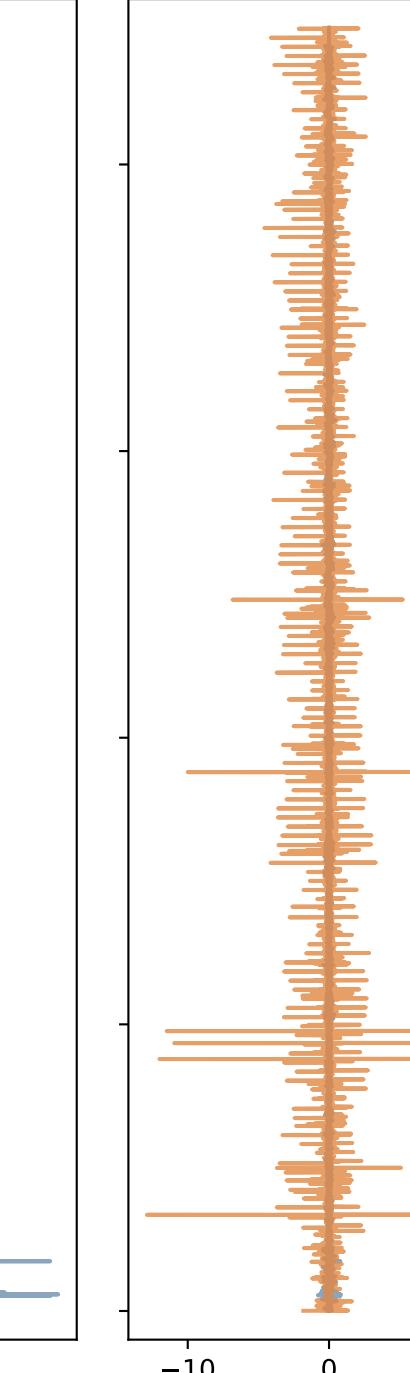
Gamma(gapi)
INC(deg)

Correlation
 $r = -0.0218$



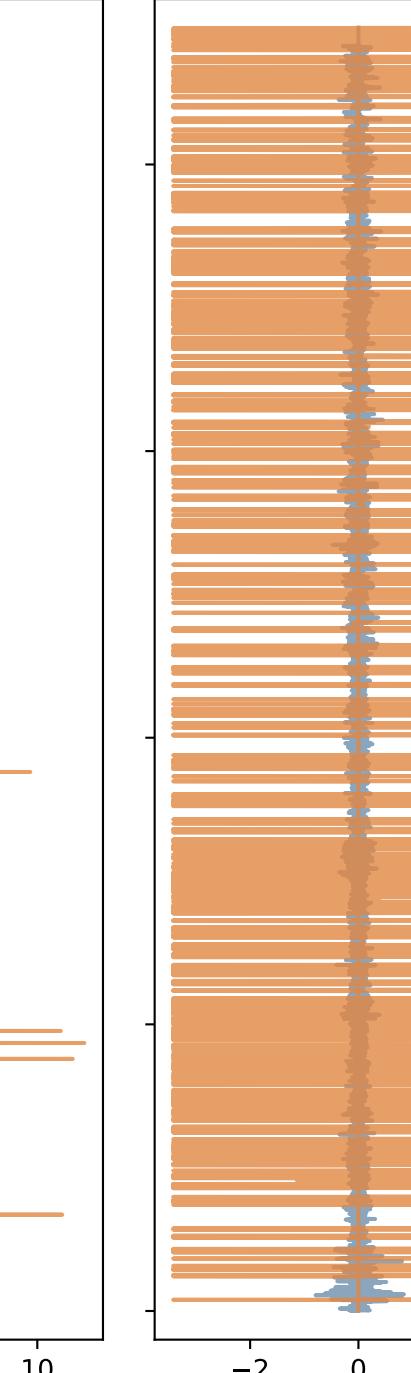
Gamma(gapi)
DIFP(psi)

Correlation
 $r = 0.0139$



Gamma(gapi)
BIT(in)

Correlation
 $r = 0.0024$



Relationships between Gamma and other features - Despiked (2std outliers and moving median: 25 ft, 25%)
CWE_BlakeCollierState25281H_MDS

Gamma(gapi)
ROP(ft / min)

Gamma(gapi)
WOB(klbs)

Gamma(gapi)
TPO(gal / min)

Gamma(gapi)
RPM(rpm)

Gamma(gapi)
SPP(psi)

Gamma(gapi)
INC(deg)

Gamma(gapi)
DIFP(psi)

Gamma(gapi)
BIT(in)

Correlation
 $r = -0.0342$

Correlation
 $r = 0.009$

Correlation
 $r = 0.0253$

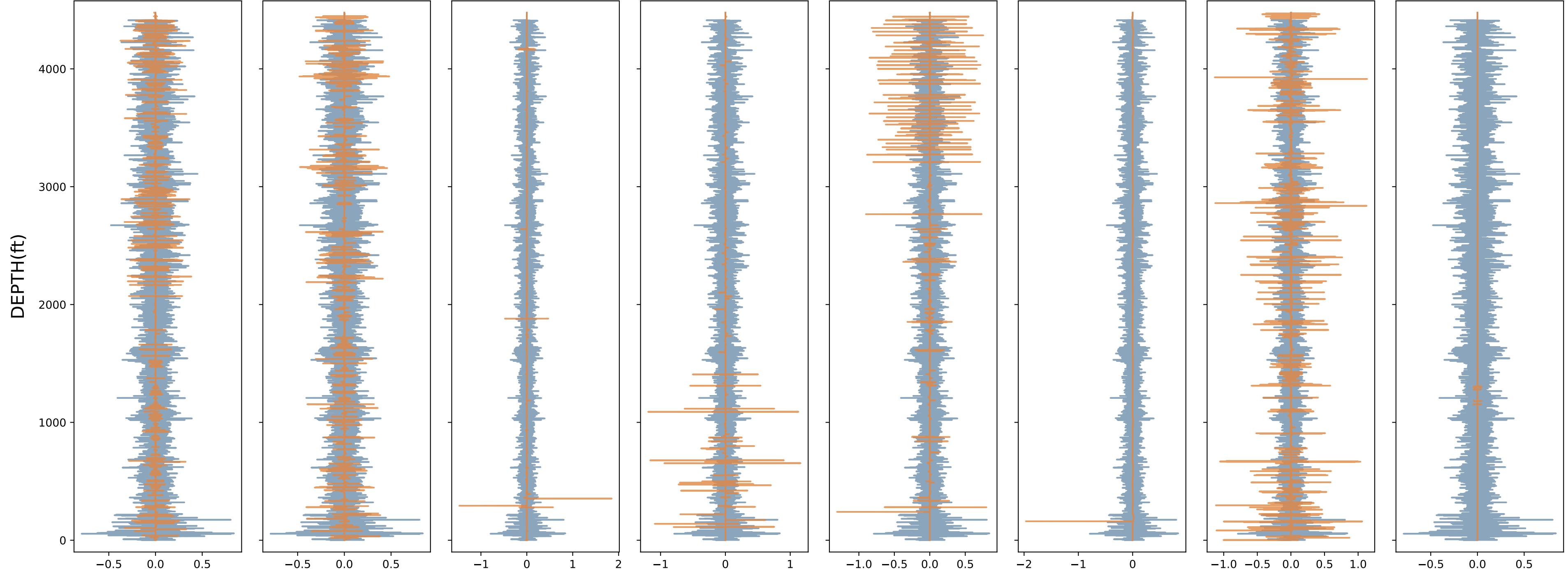
Correlation
 $r = -0.0186$

Correlation
 $r = -0.0287$

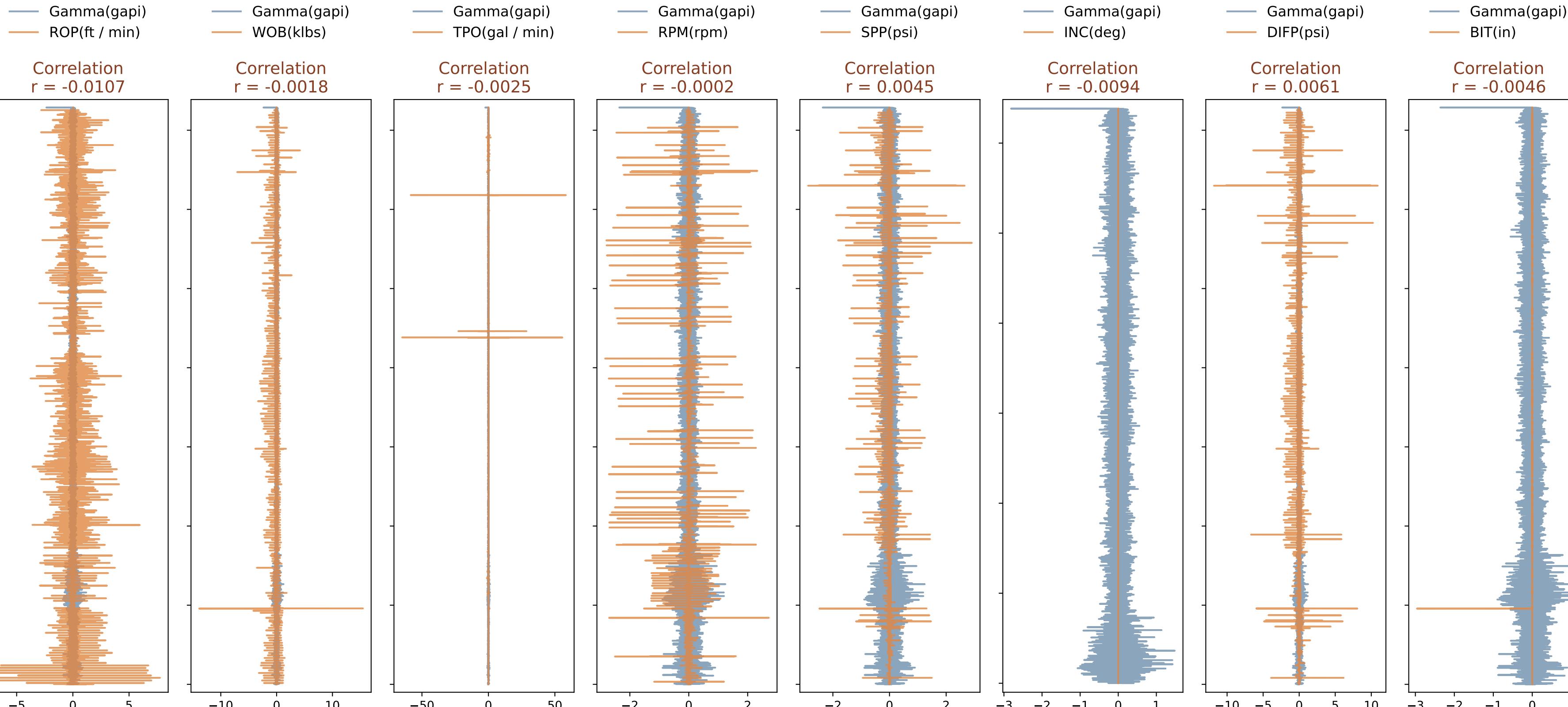
Correlation
 $r = -0.0264$

Correlation
 $r = -0.0043$

Correlation
 $r = -0.0031$



Relationships between Gamma and other features - No despiking CWE_BlakeCollierState25281H_MDS



Relationships between Gamma and other features - Despiked (2std outliers and moving median: 25 ft, 25%)
CWE_BlakeCollierState25281H_MDS

Gamma(gapi)
ROP(ft / min)

Gamma(gapi)
WOB(klbs)

Gamma(gapi)
TPO(gal / min)

Gamma(gapi)
RPM(rpm)

Gamma(gapi)
SPP(psi)

Gamma(gapi)
INC(deg)

Gamma(gapi)
DIFP(psi)

Gamma(gapi)
BIT(in)

Correlation
 $r = -0.0159$

Correlation
 $r = -0.0044$

Correlation
 $r = -0.0035$

Correlation
 $r = -0.002$

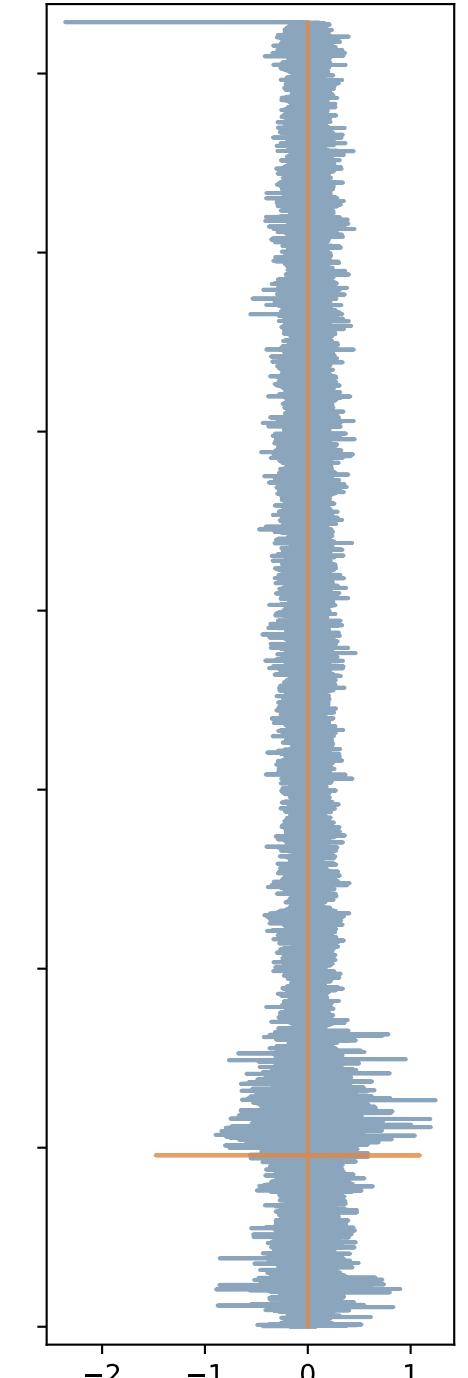
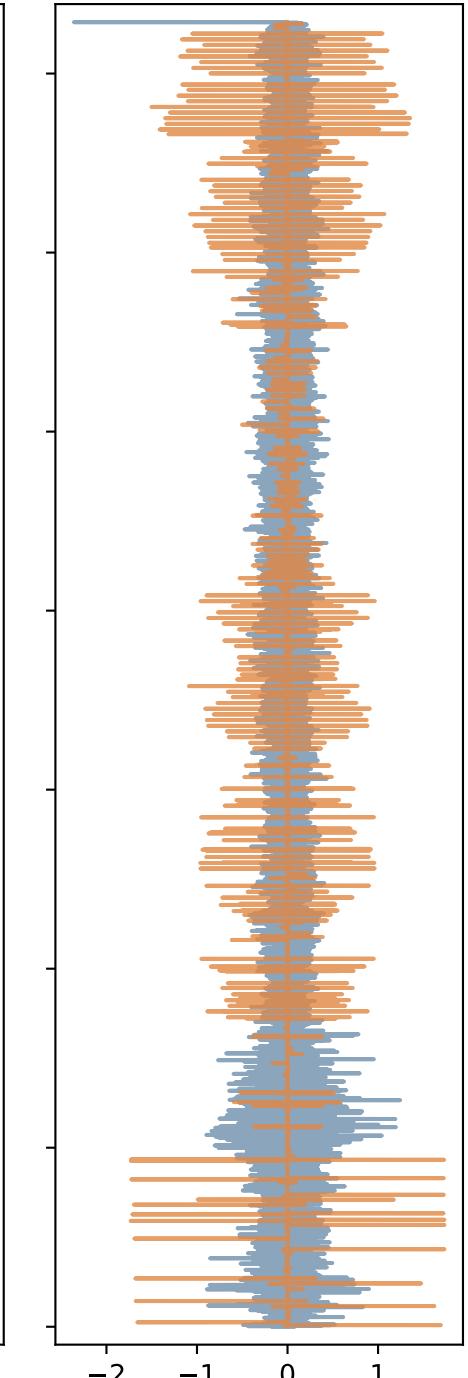
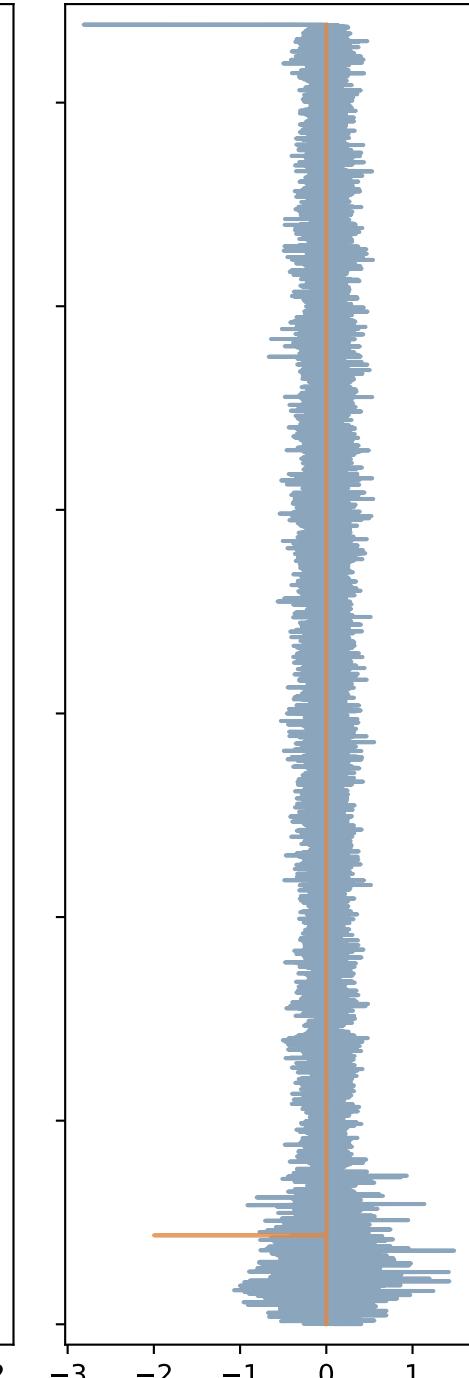
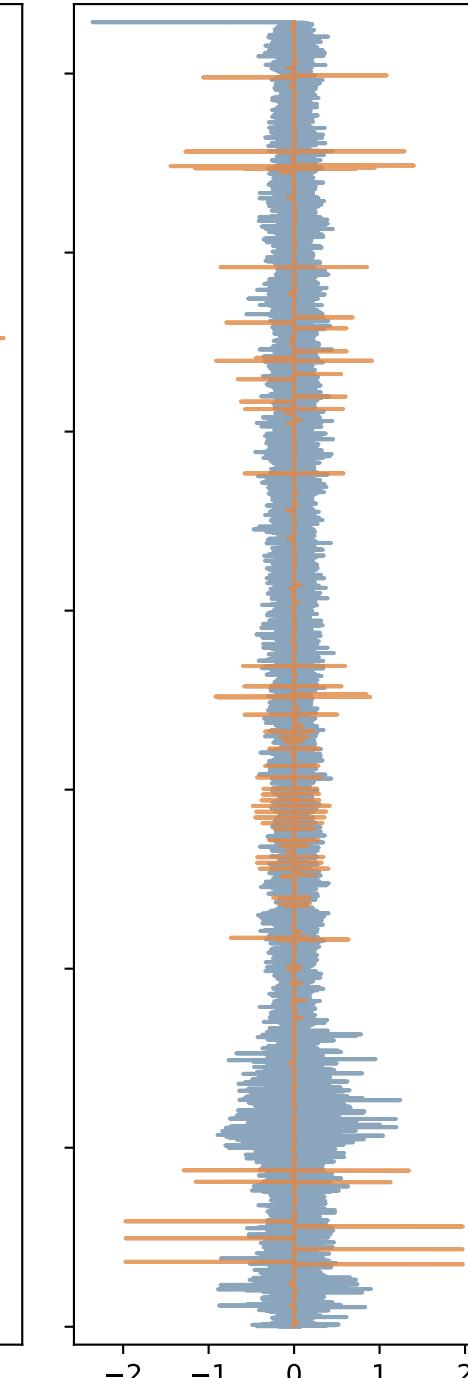
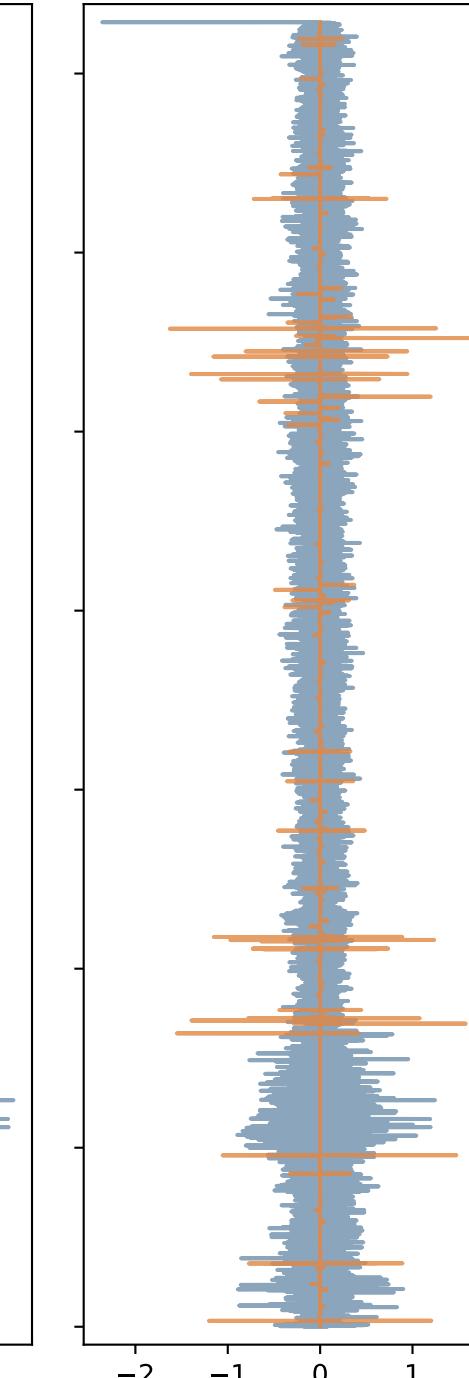
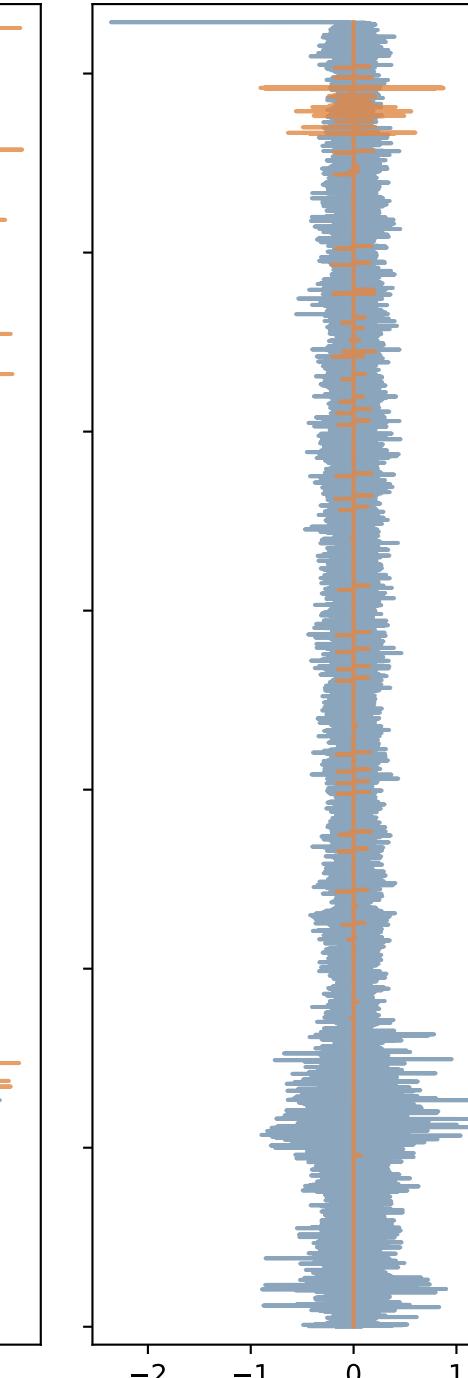
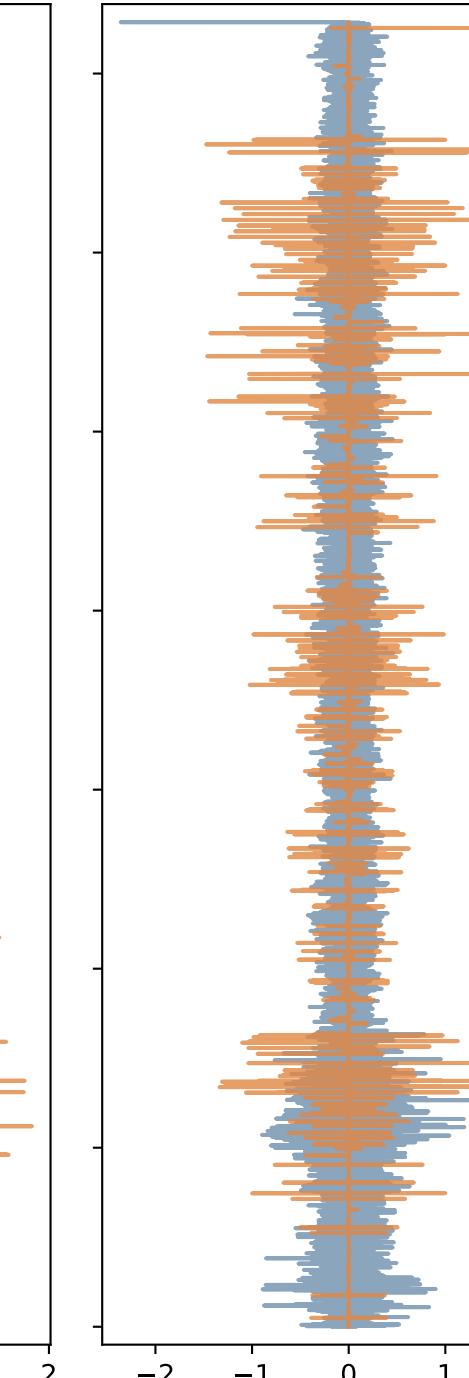
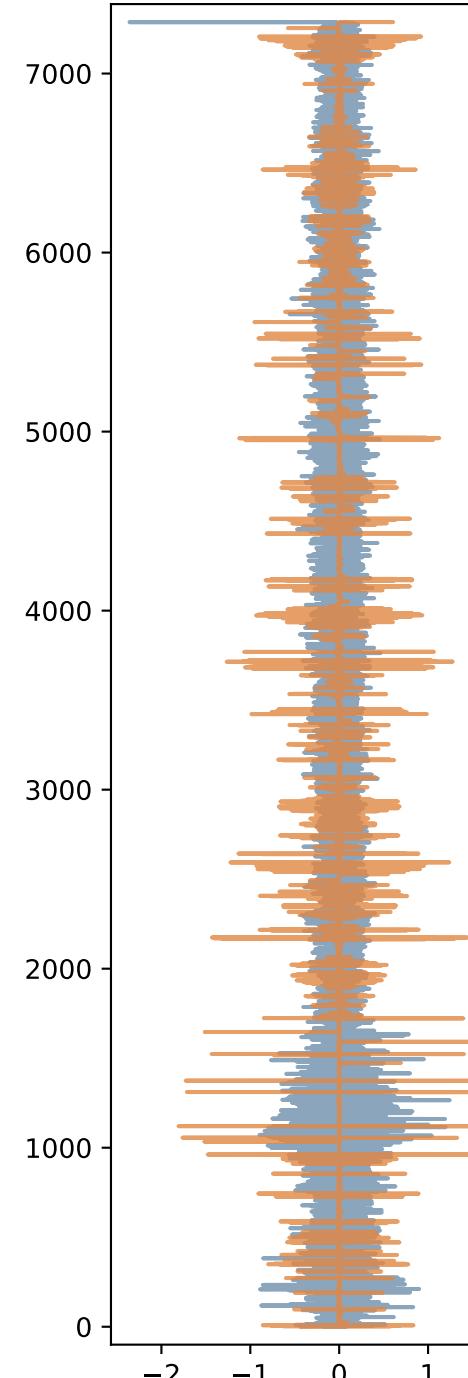
Correlation
 $r = 0.0066$

Correlation
 $r = -0.0073$

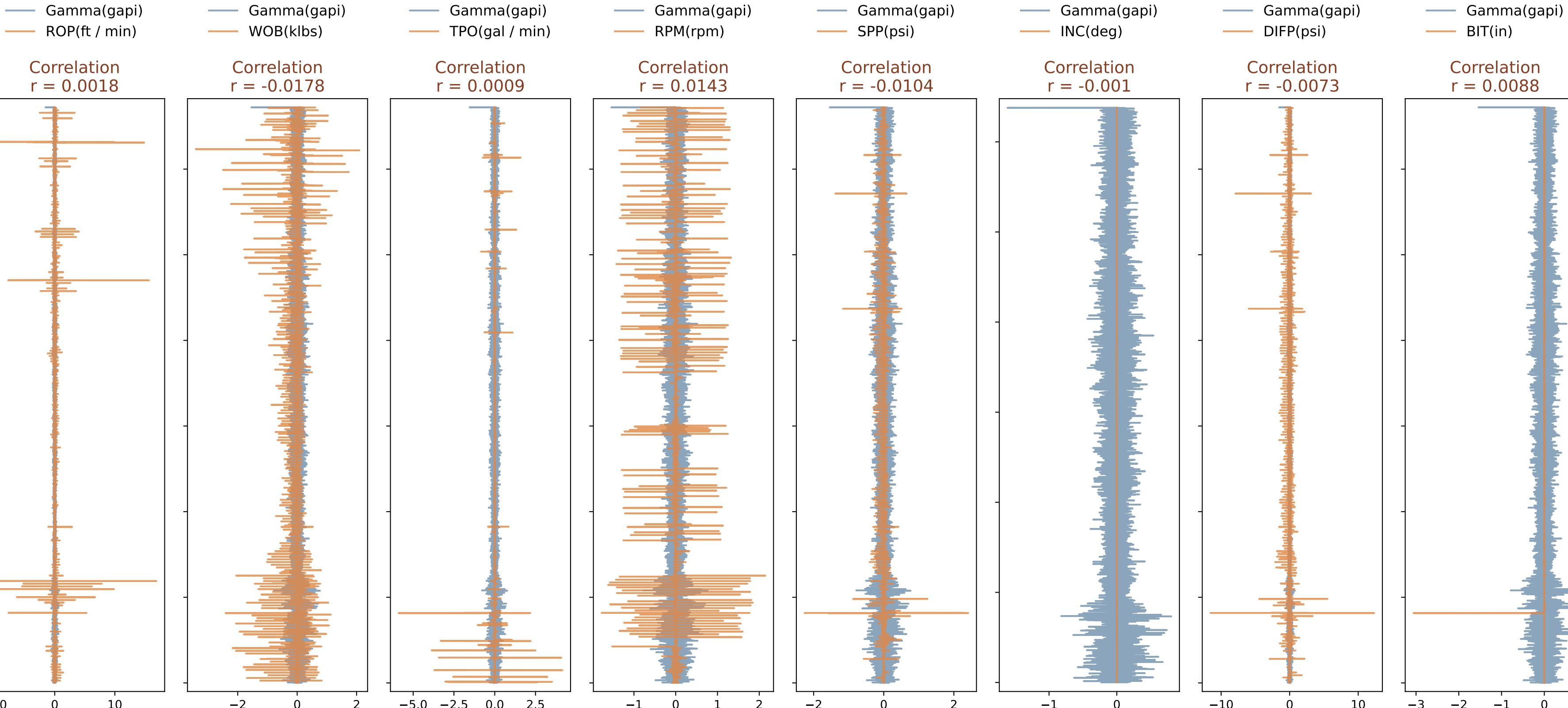
Correlation
 $r = 0.0071$

Correlation
 $r = -0.0121$

DEPTH(ft)



Relationships between Gamma and other features - No despiking CWE_BlakeCollierState25281H_MDS



Relationships between Gamma and other features - Despiked (2std outliers and moving median: 25 ft, 25%)
CWE_BlakeCollierState25281H_MDS

Gamma(gapi)
ROP(ft / min)

Gamma(gapi)
WOB(klbs)

Gamma(gapi)
TPO(gal / min)

Gamma(gapi)
RPM(rpm)

Gamma(gapi)
SPP(psi)

Gamma(gapi)
INC(deg)

Gamma(gapi)
DIFP(psi)

Gamma(gapi)
BIT(in)

Correlation
 $r = -0.0153$

Correlation
 $r = -0.0029$

Correlation
 $r = -0.0001$

Correlation
 $r = -0.0095$

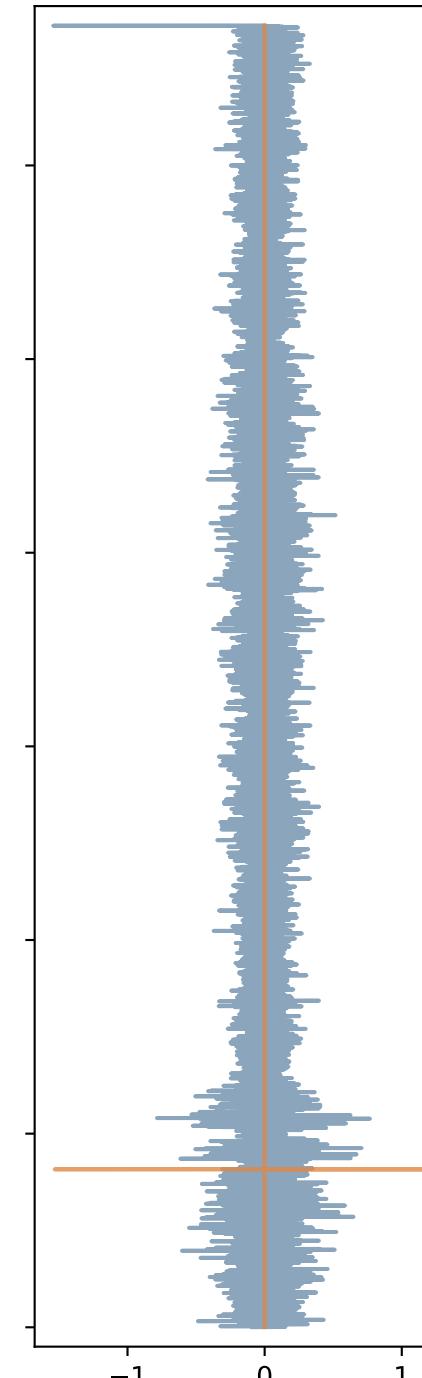
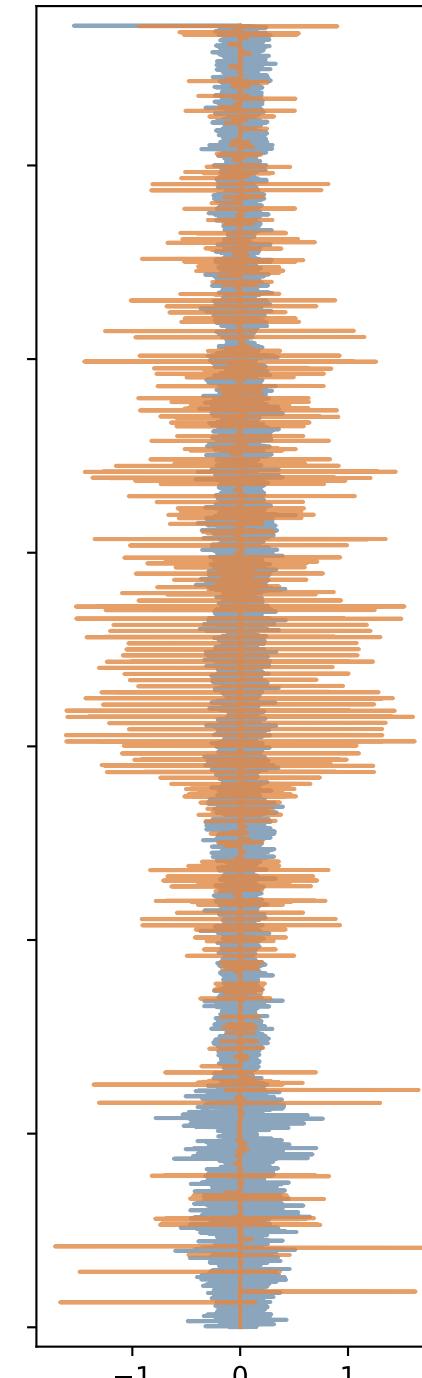
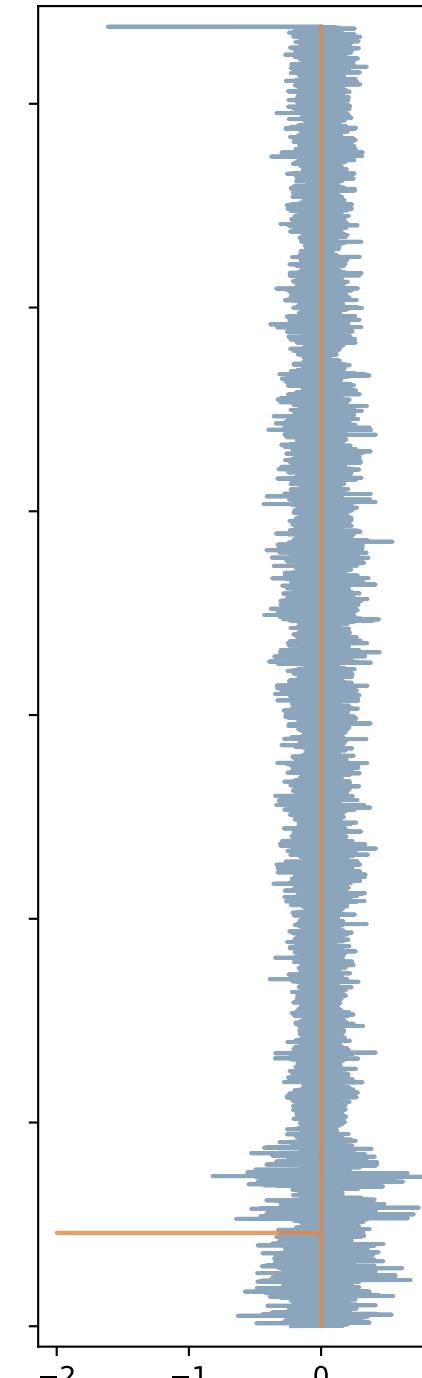
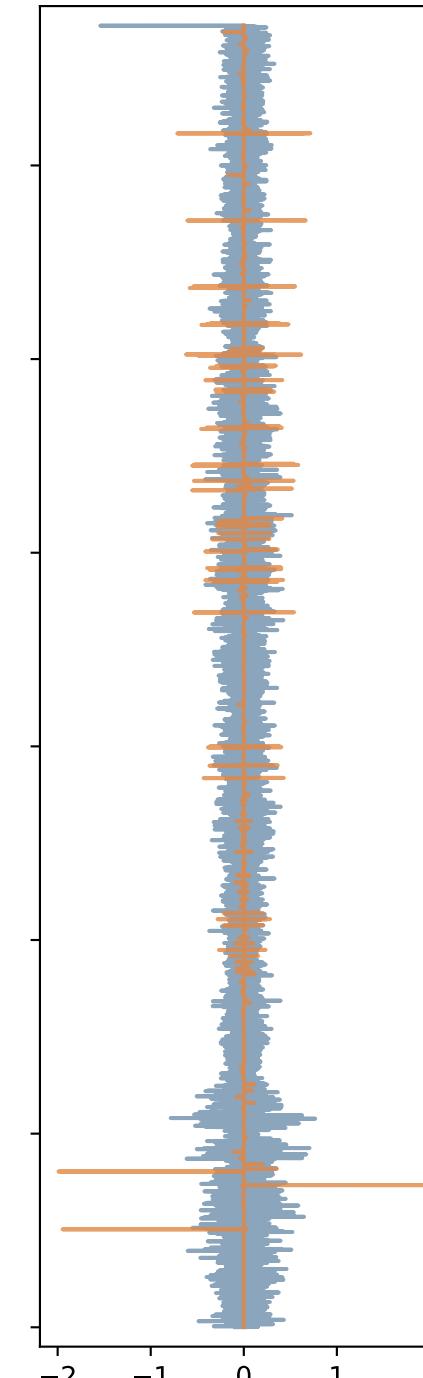
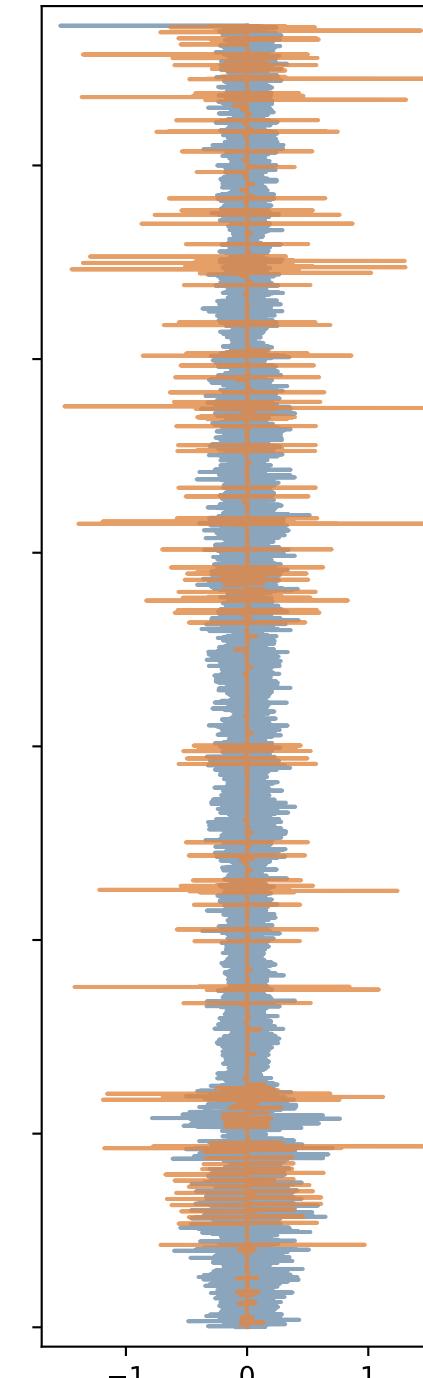
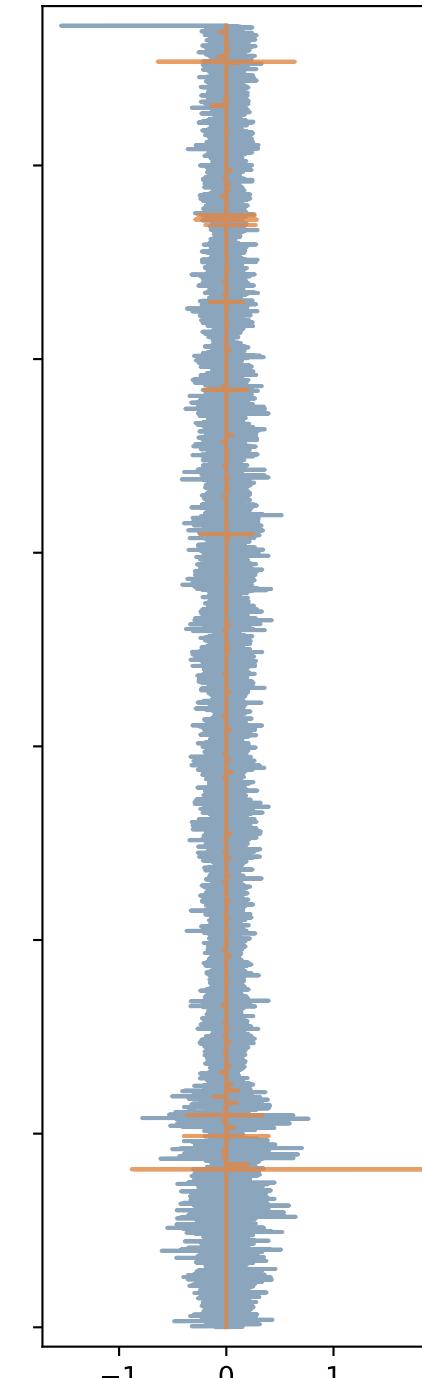
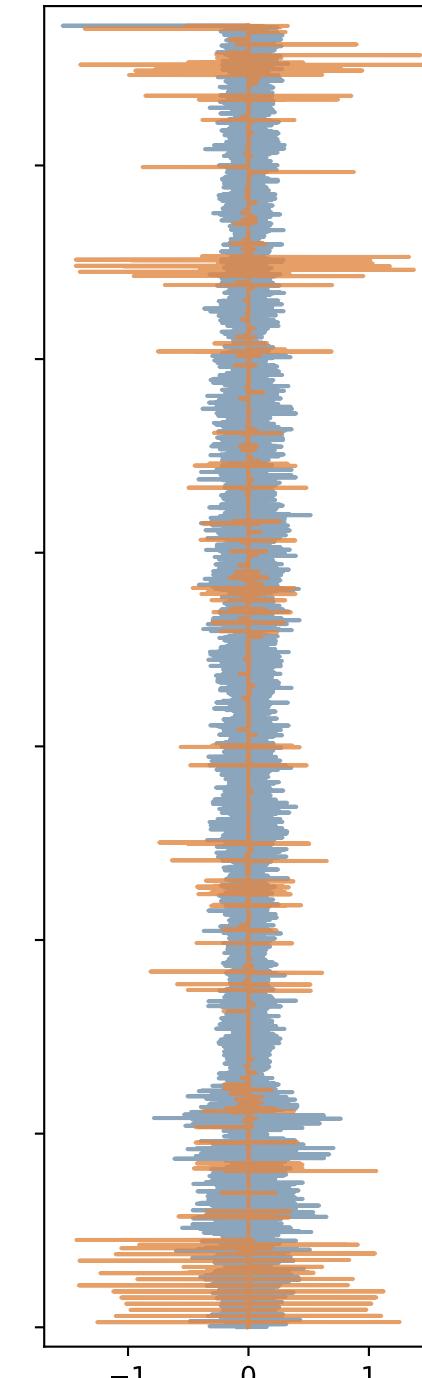
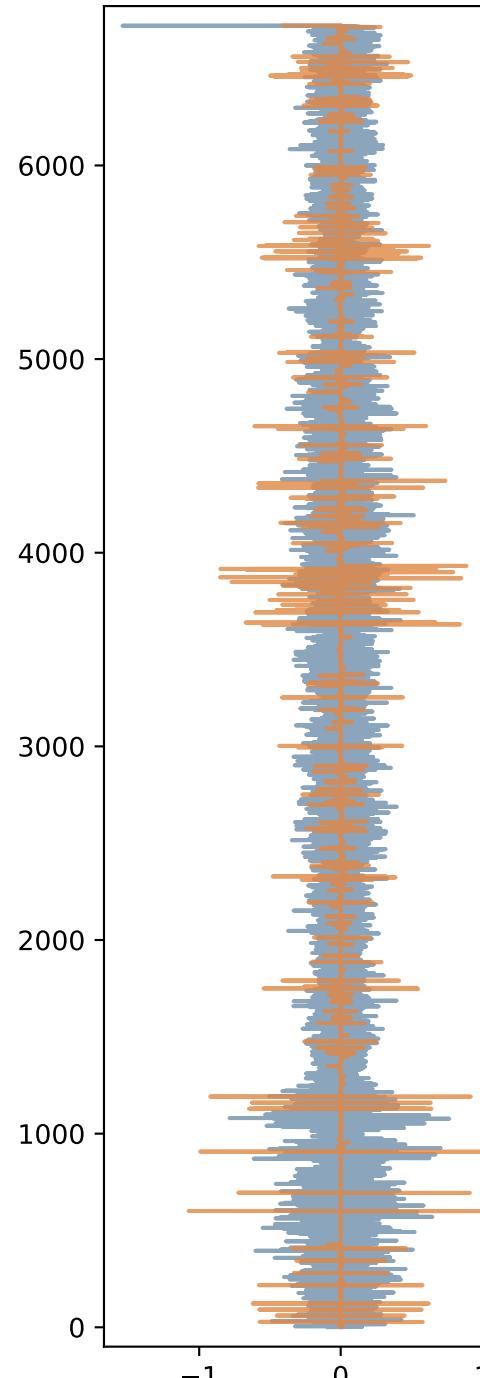
Correlation
 $r = -0.007$

Correlation
 $r = 0.0023$

Correlation
 $r = -0.0126$

Correlation
 $r = 0.0183$

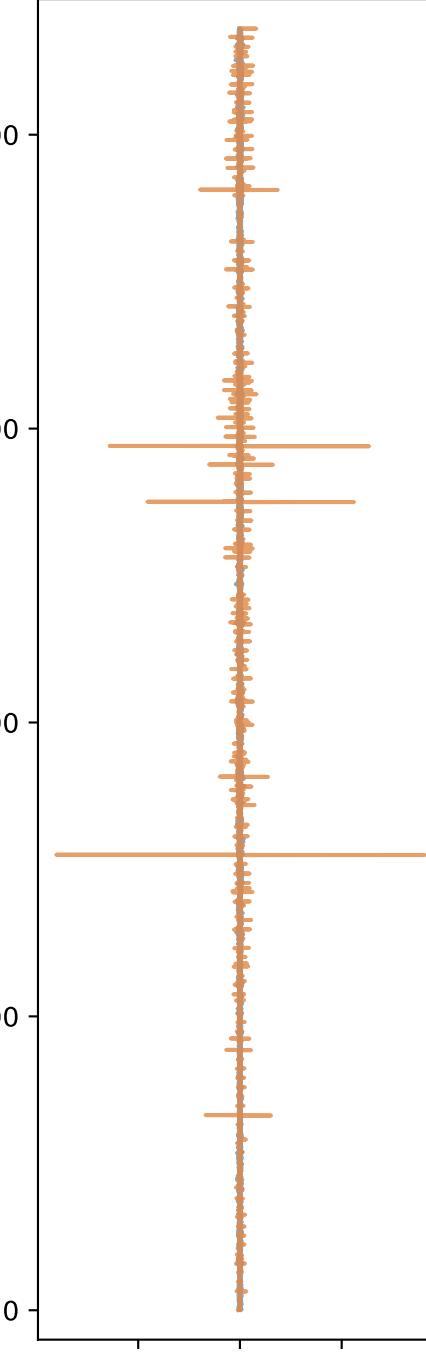
DEPTH(ft)



Relationships between Gamma and other features - No despiking CWE_BlakeCollierState25281H_MDS

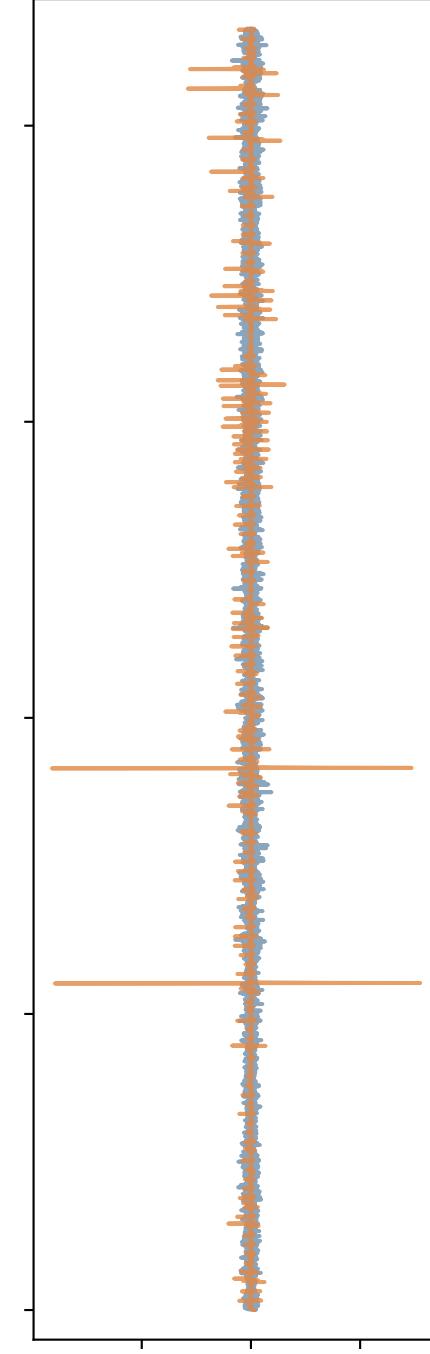
Gamma(gapi)
ROP(ft / min)

Correlation
 $r = 0.0086$



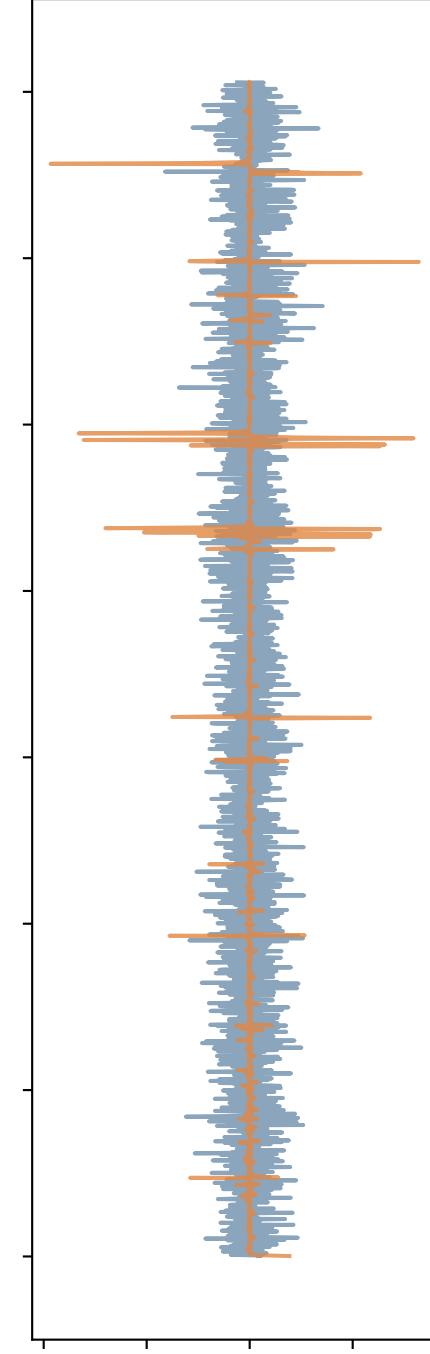
Gamma(gapi)
WOB(klbs)

Correlation
 $r = -0.0094$



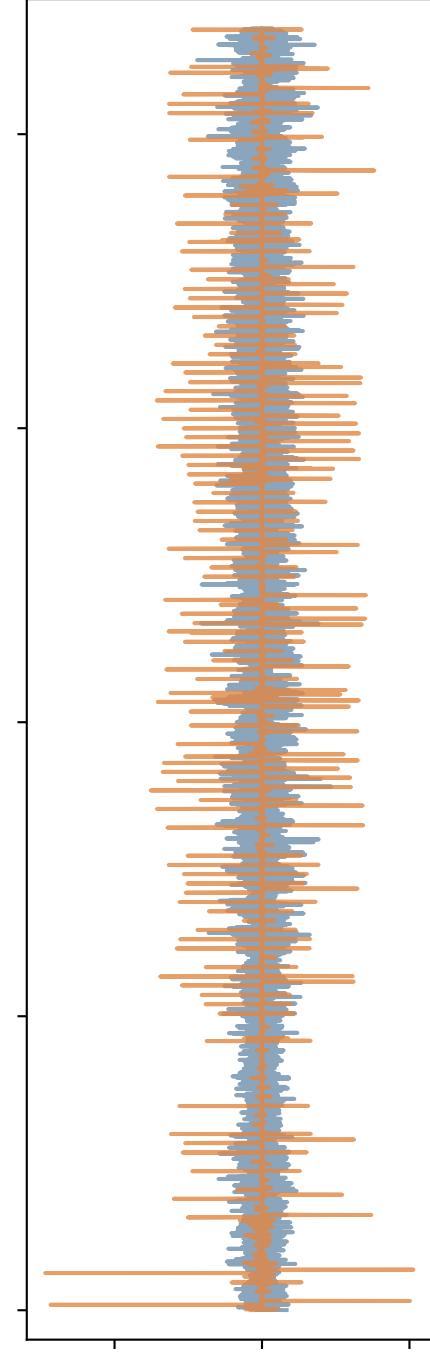
Gamma(gapi)
TPO(gal / min)

Correlation
 $r = 0.0211$



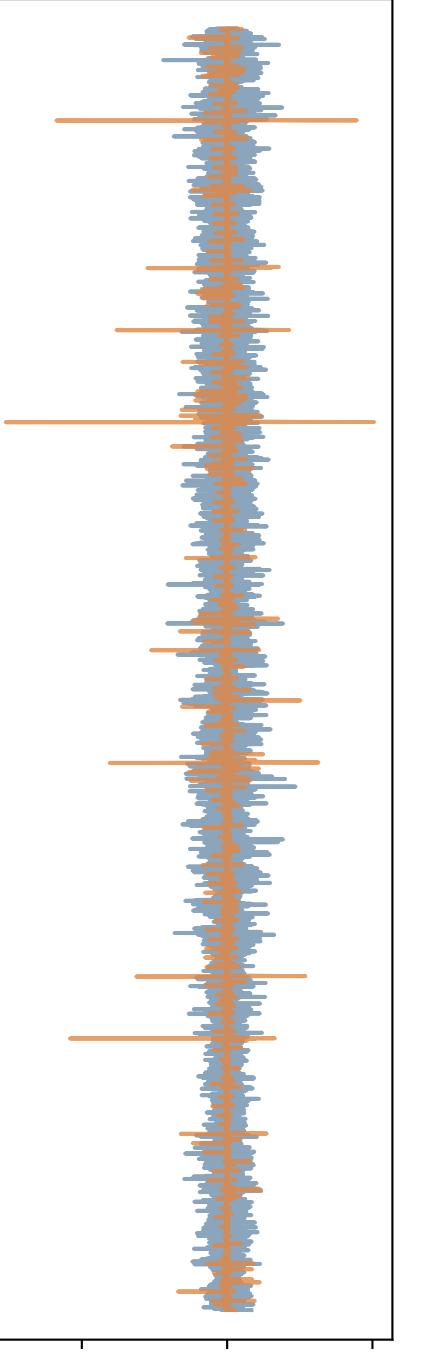
Gamma(gapi)
RPM(rpm)

Correlation
 $r = 0.0109$



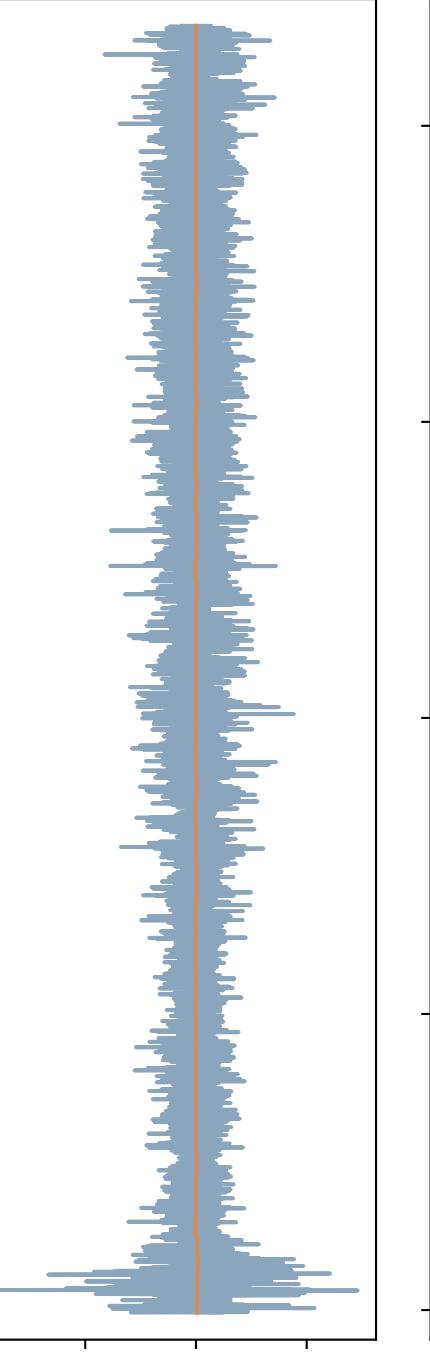
Gamma(gapi)
SPP(psi)

Correlation
 $r = 0.0047$



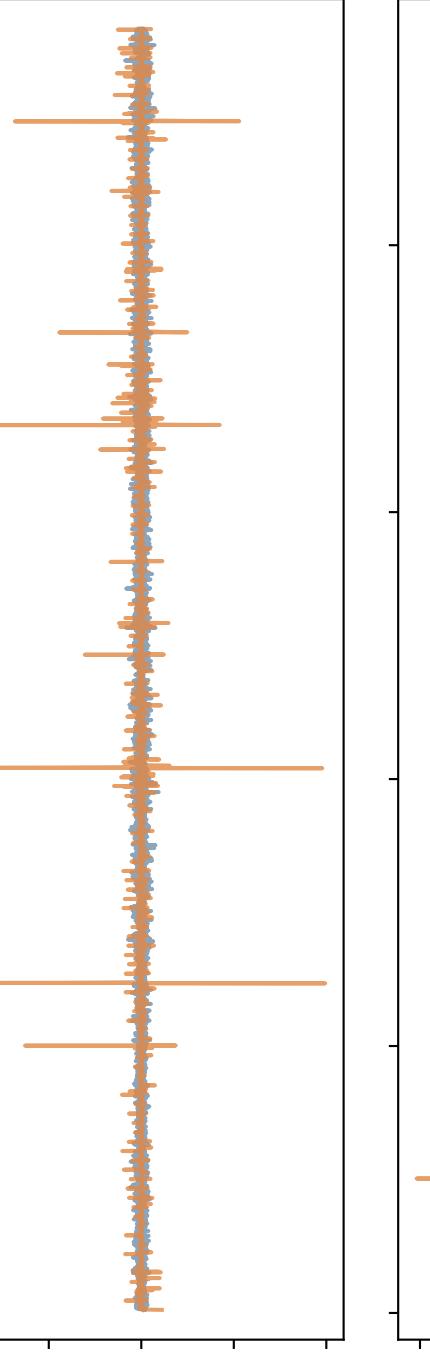
Gamma(gapi)
INC(deg)

Correlation
 $r = -0.0138$



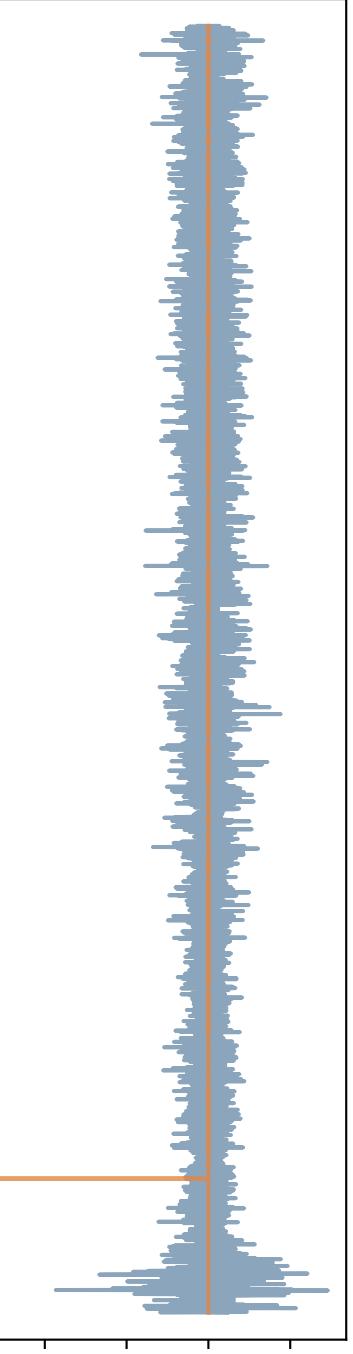
Gamma(gapi)
DIFP(psi)

Correlation
 $r = 0.0055$



Gamma(gapi)
BIT(in)

Correlation
 $r = -0.0144$



Relationships between Gamma and other features - Despiked (2std outliers and moving median: 25 ft, 25%)
CWE_BlakeCollierState25281H_MDS

Gamma(gapi)
ROP(ft / min)

Gamma(gapi)
WOB(klbs)

Gamma(gapi)
TPO(gal / min)

Gamma(gapi)
RPM(rpm)

Gamma(gapi)
SPP(psi)

Gamma(gapi)
INC(deg)

Gamma(gapi)
DIFP(psi)

Gamma(gapi)
BIT(in)

Correlation
 $r = -0.0017$

Correlation
 $r = -0.0117$

Correlation
 $r = 0.0043$

Correlation
 $r = 0.0177$

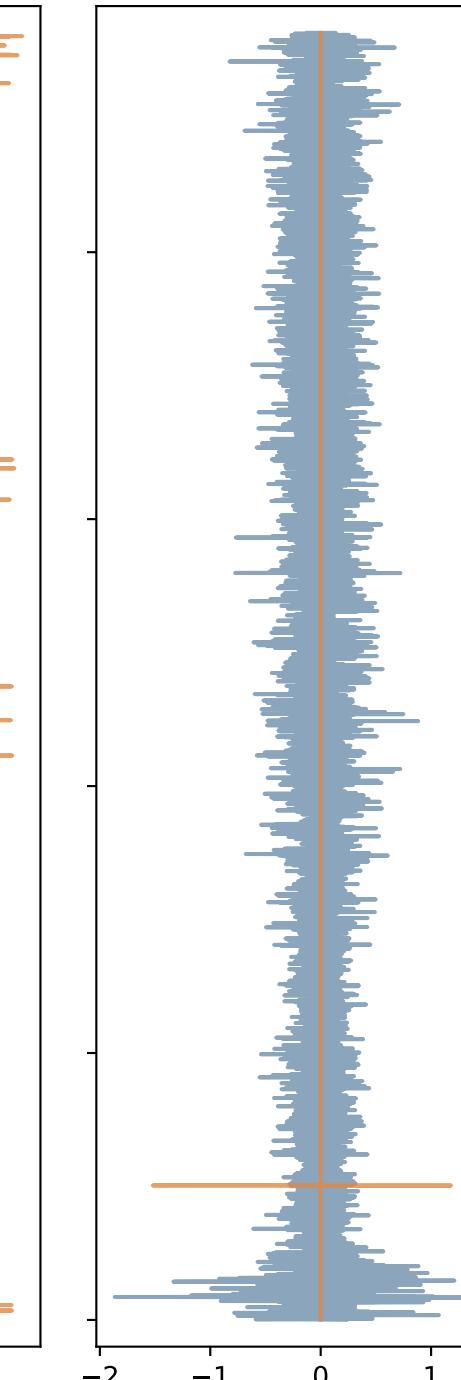
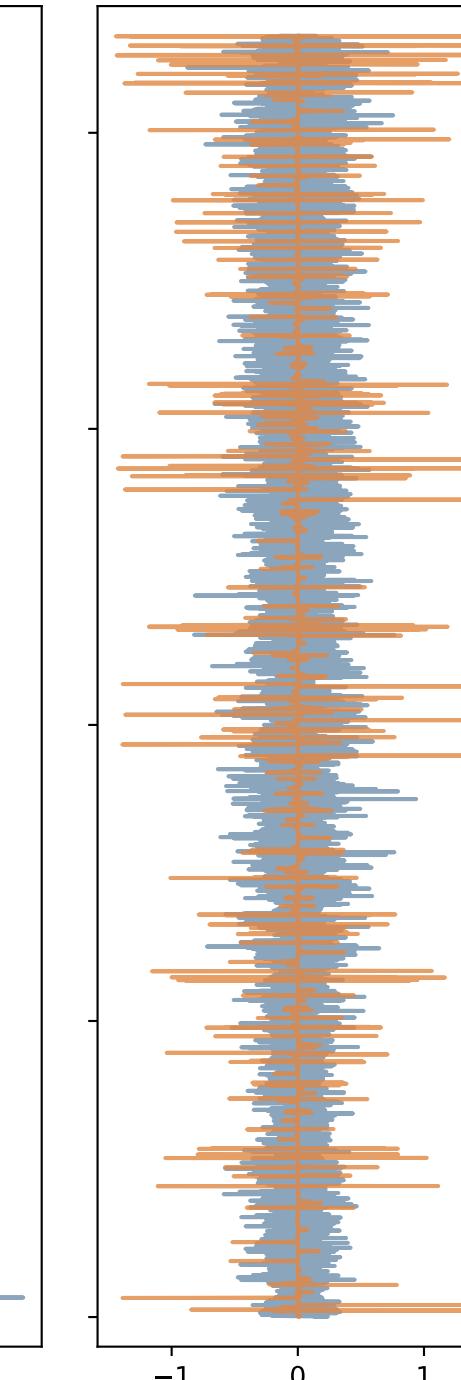
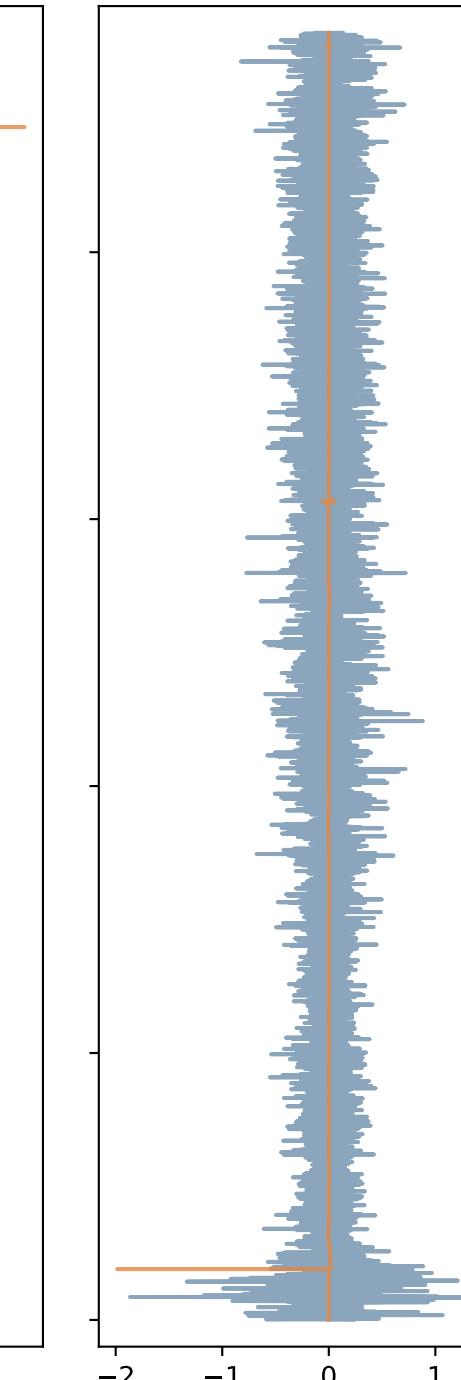
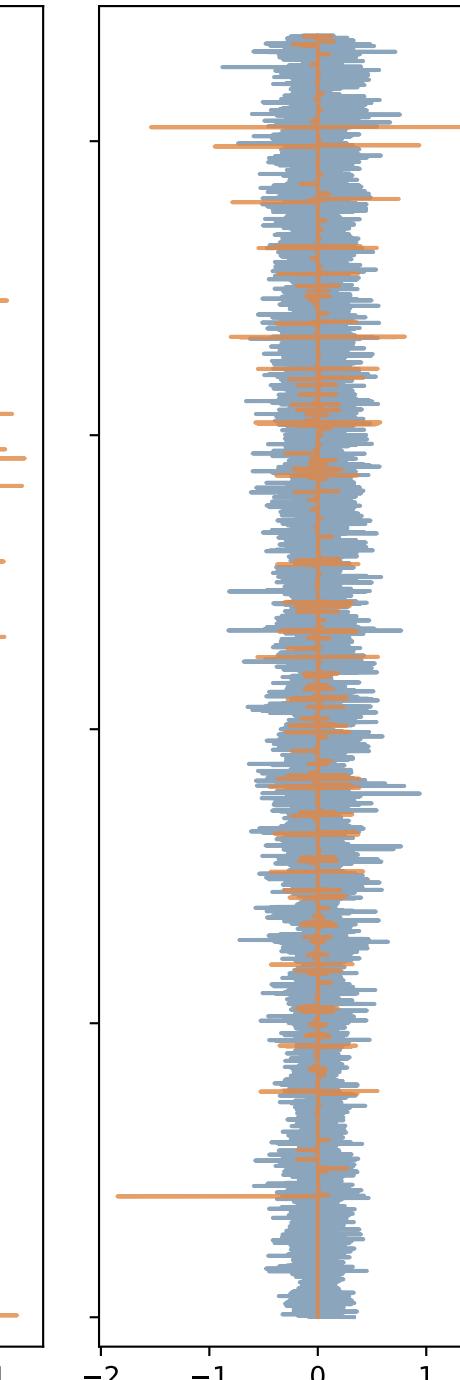
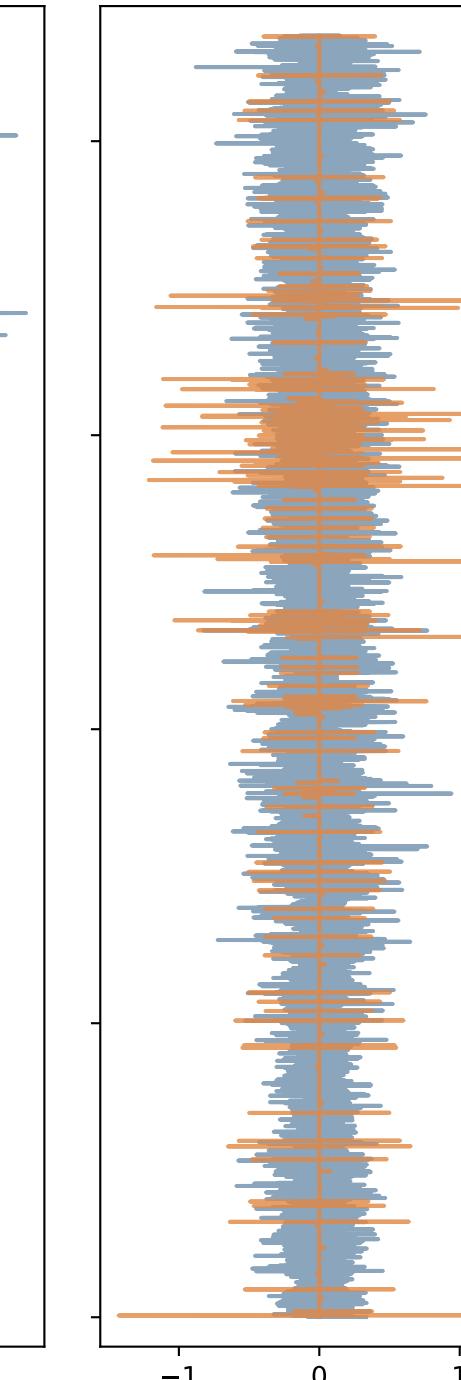
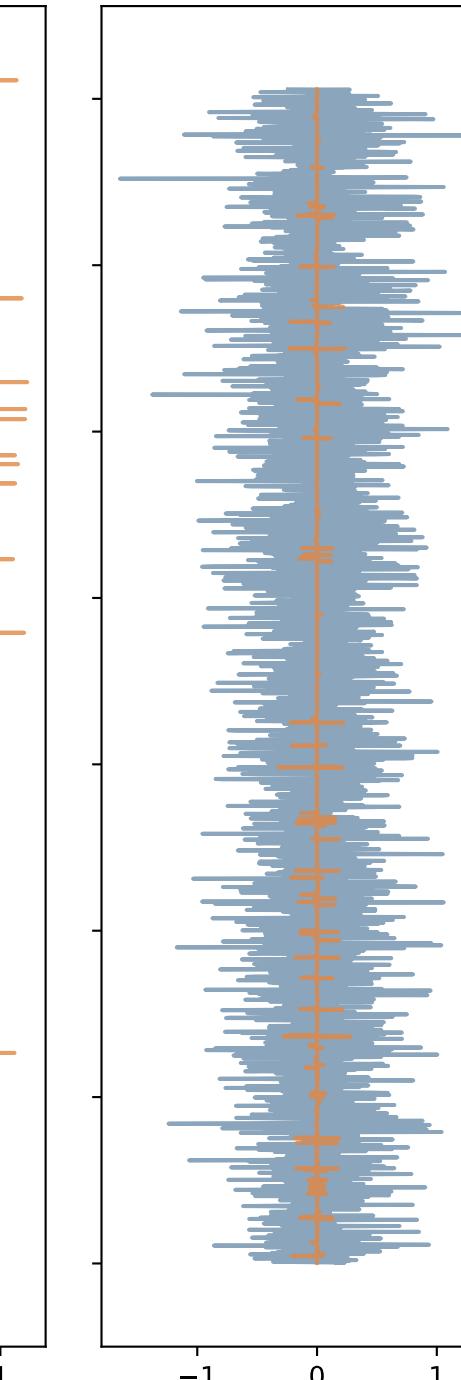
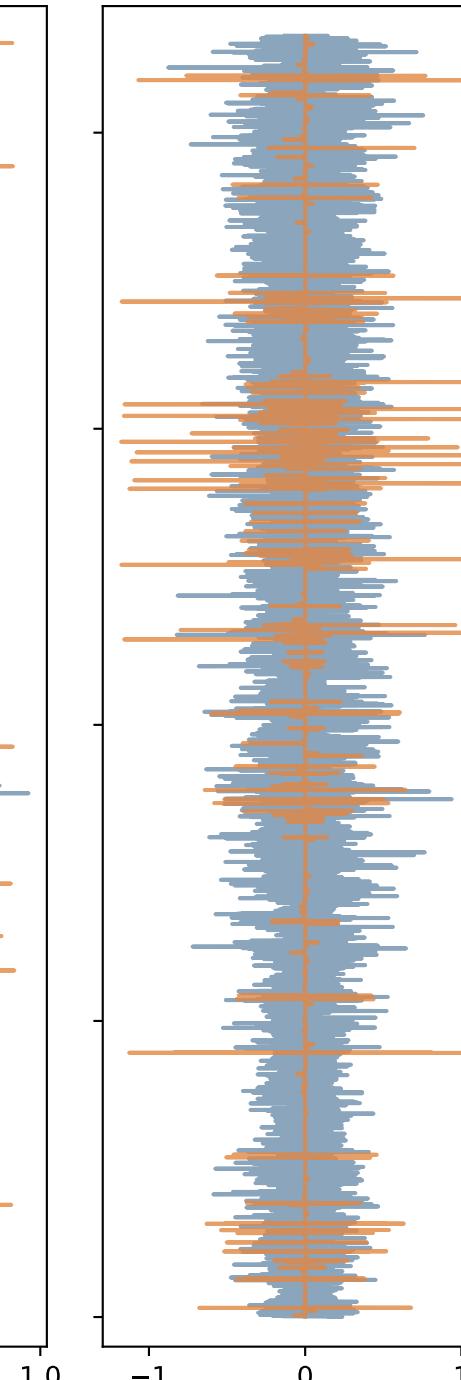
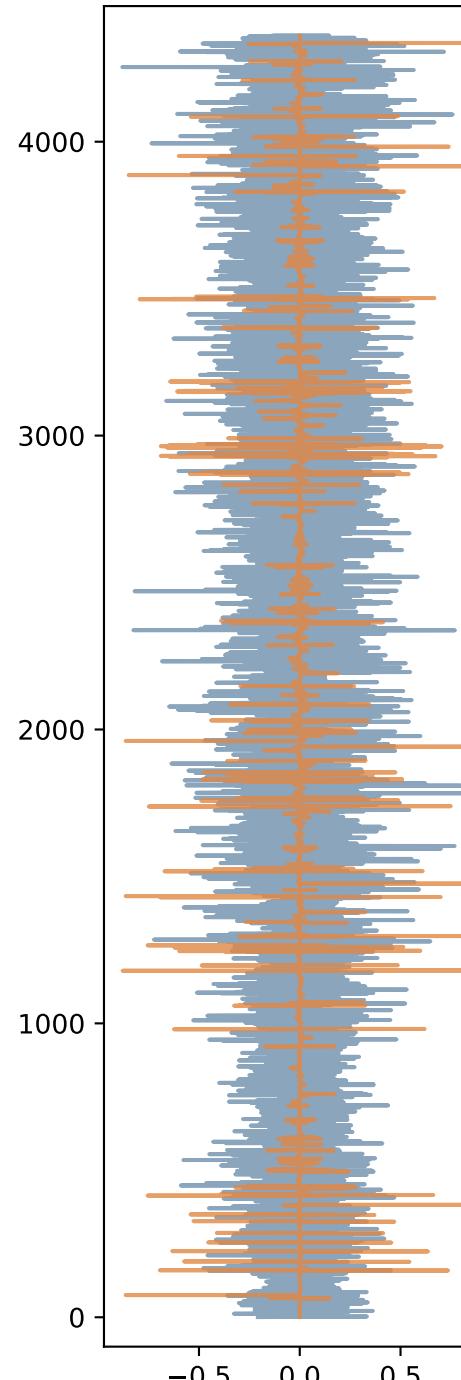
Correlation
 $r = -0.0066$

Correlation
 $r = -0.0147$

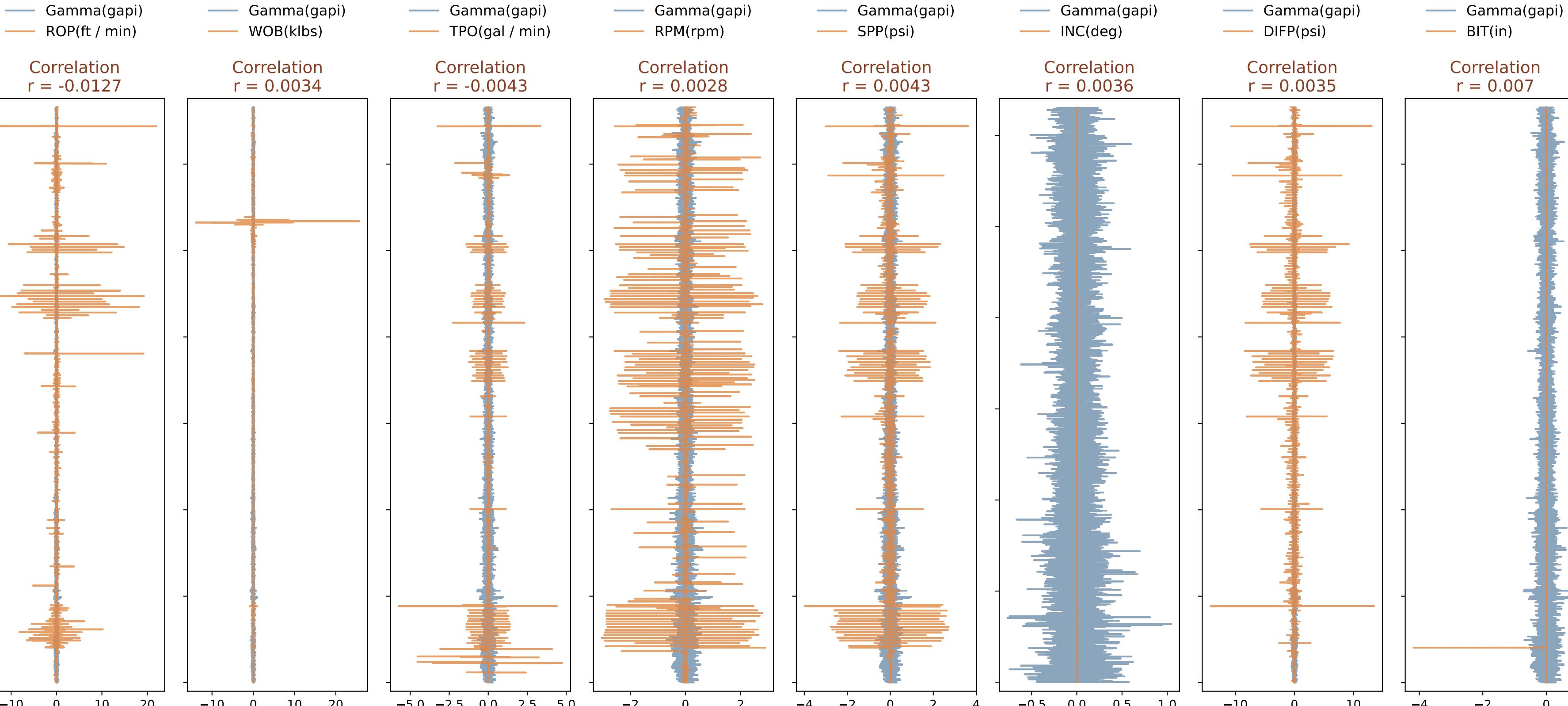
Correlation
 $r = 0.0112$

Correlation
 $r = -0.0041$

DEPTH(ft)



Relationships between Gamma and other features - No despiking CWE_BlakeCollierState25281H_MDS



Relationships between Gamma and other features - Despiked (2std outliers and moving median: 25 ft, 25%)
CWE_BlakeCollierState25281H_MDS

Gamma(gapi)
ROP(ft / min)

Gamma(gapi)
WOB(klbs)

Gamma(gapi)
TPO(gal / min)

Gamma(gapi)
RPM(rpm)

Gamma(gapi)
SPP(psi)

Gamma(gapi)
INC(deg)

Gamma(gapi)
DIFP(psi)

Gamma(gapi)
BIT(in)

Correlation
 $r = 0.0035$

Correlation
 $r = -0.0019$

Correlation
 $r = -0.004$

Correlation
 $r = 0.0016$

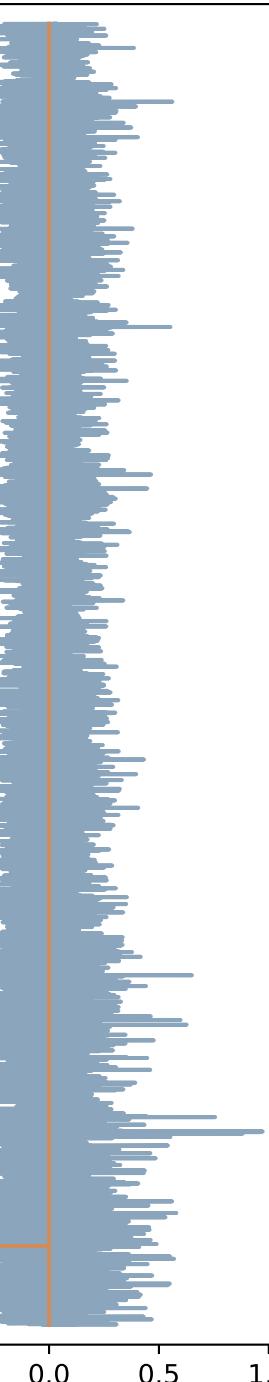
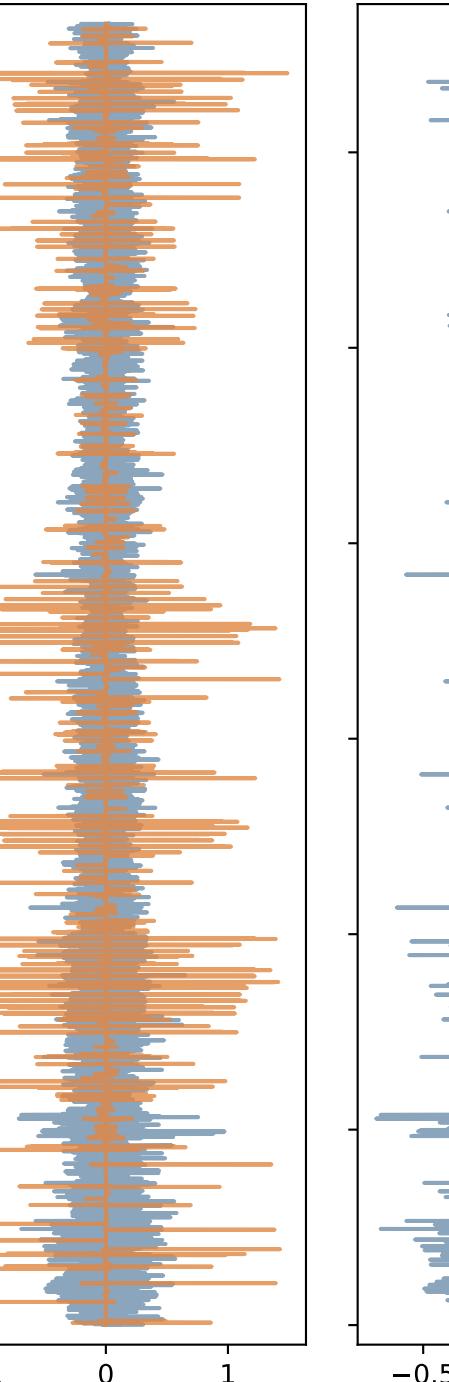
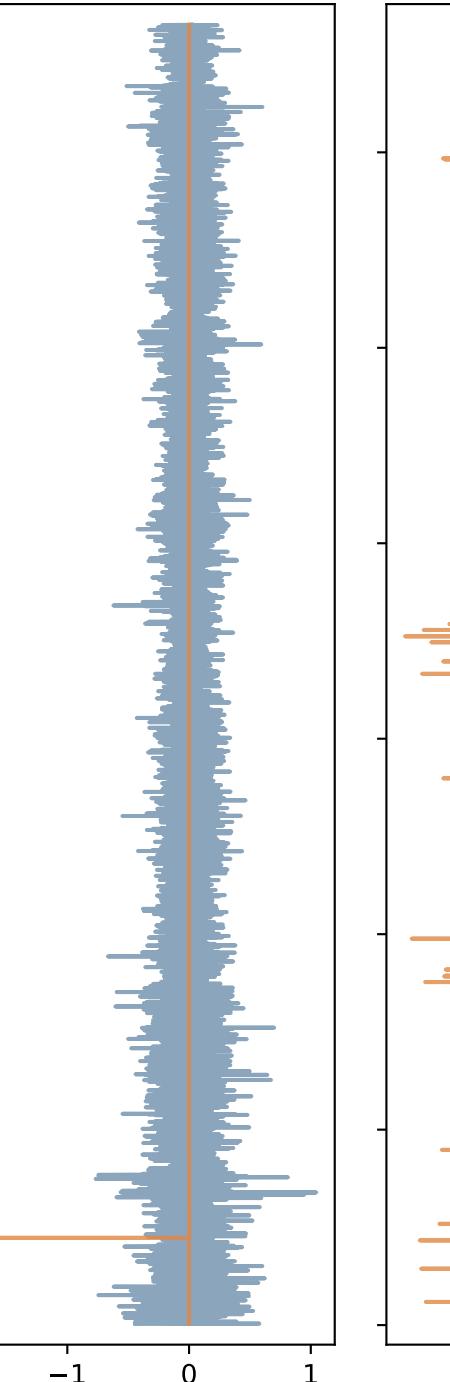
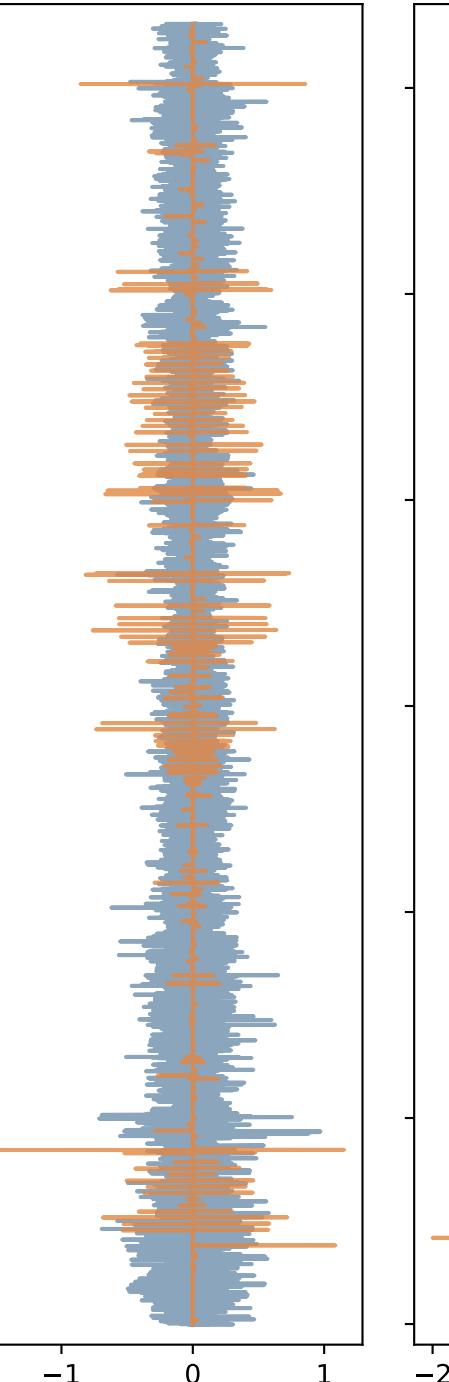
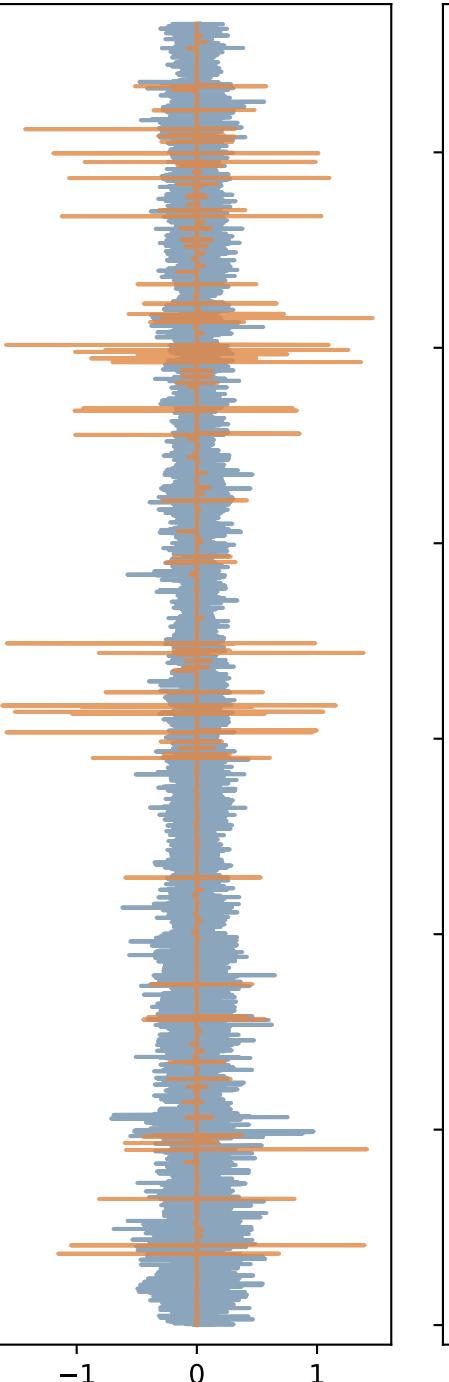
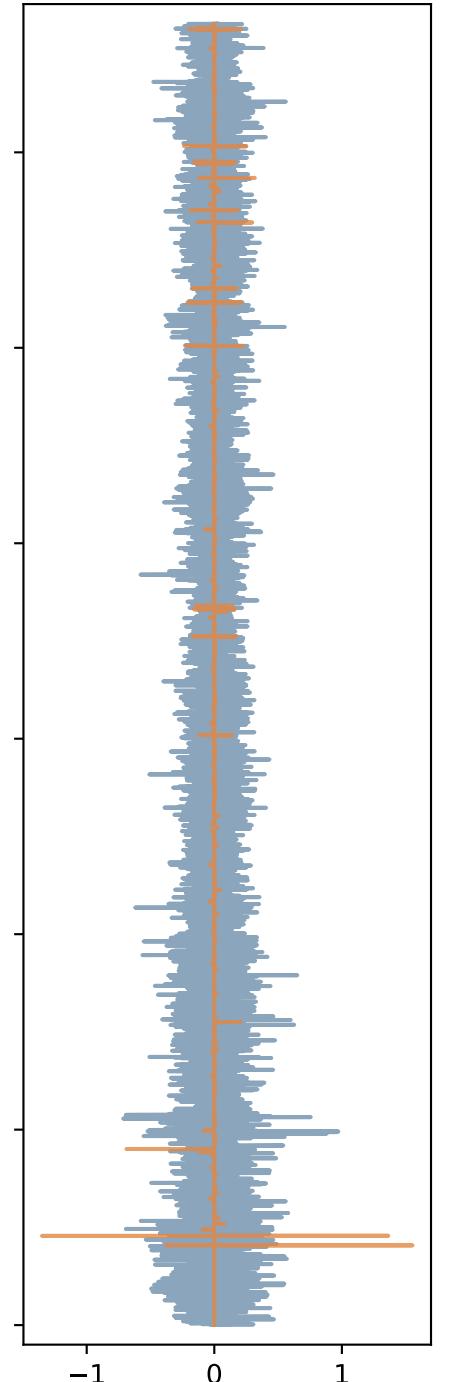
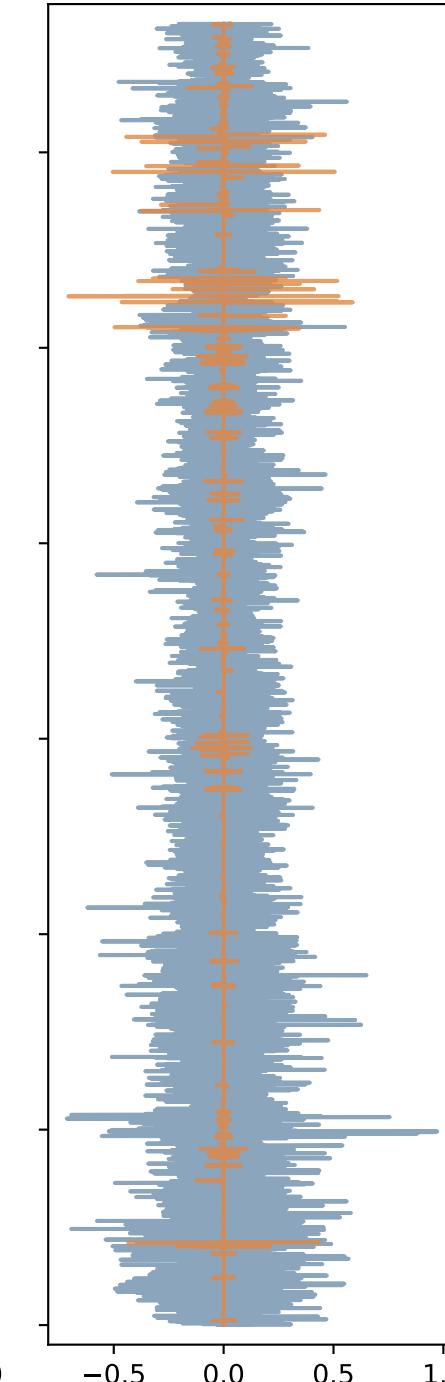
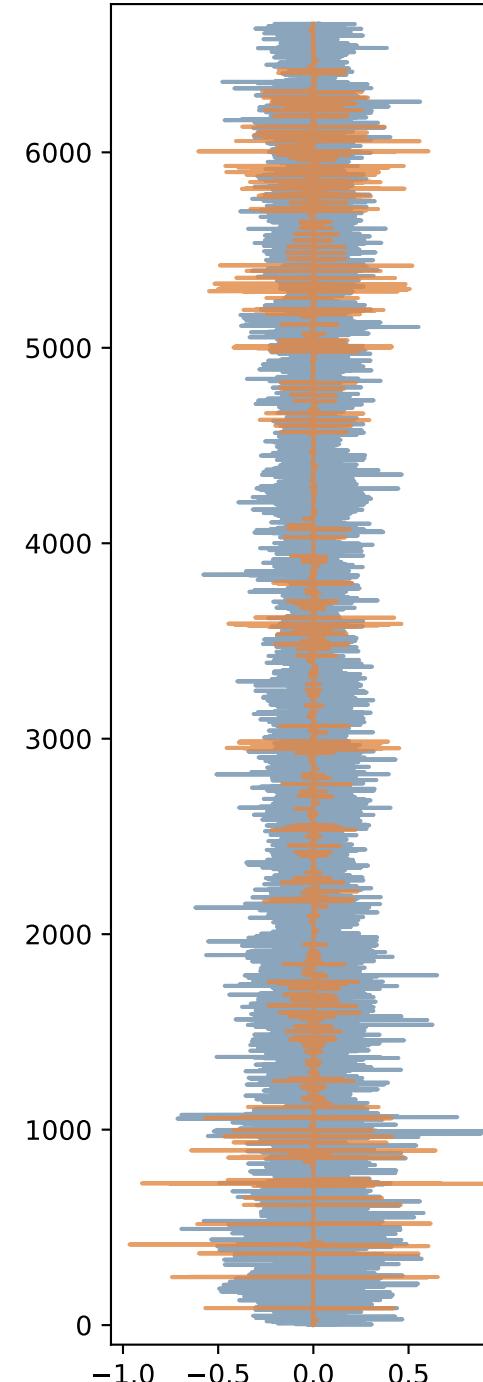
Correlation
 $r = -0.0026$

Correlation
 $r = 0.0027$

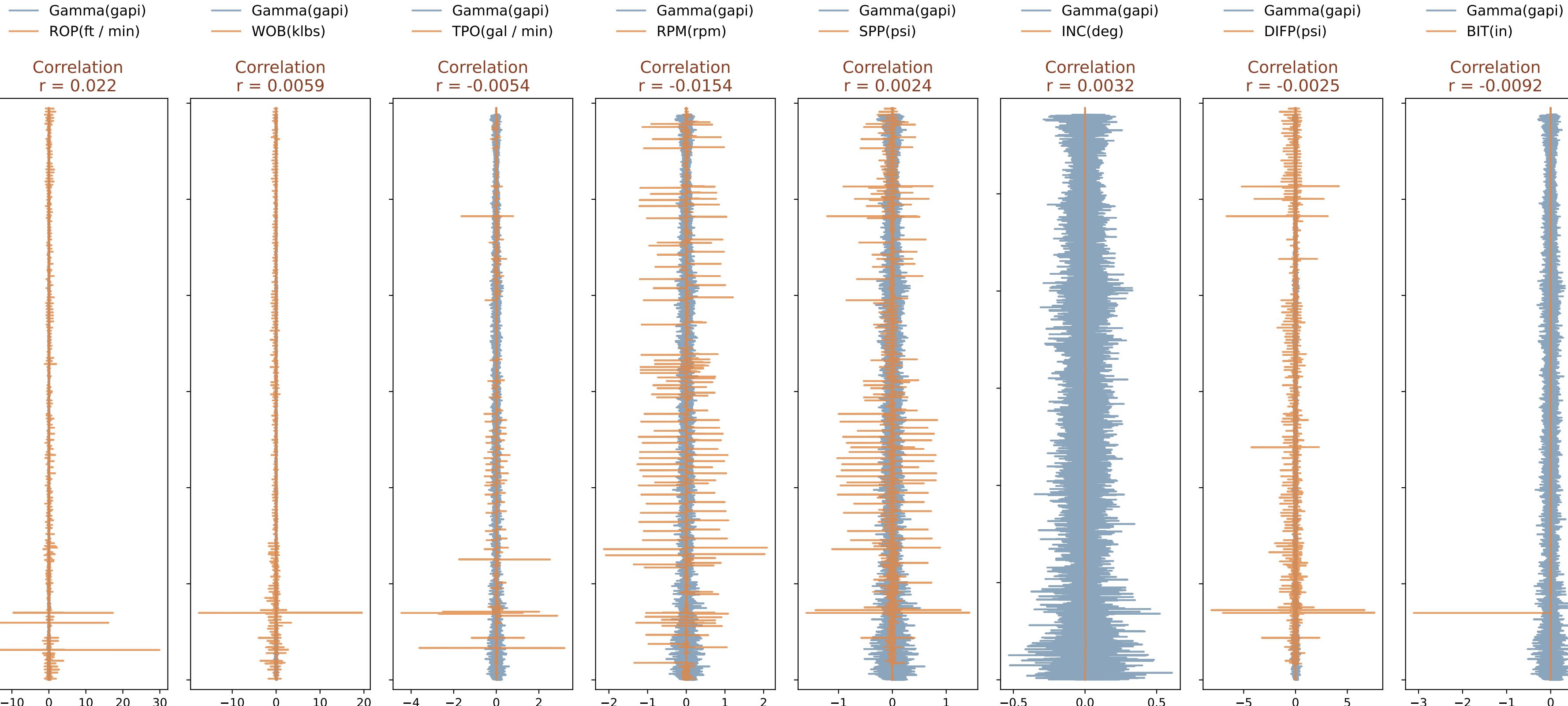
Correlation
 $r = 0.0087$

Correlation
 $r = -0.001$

DEPTH(ft)



Relationships between Gamma and other features - No despiking CWE_BlakeCollierState25281H_MDS



Relationships between Gamma and other features - Despiked (2std outliers and moving median: 25 ft, 25%)
CWE_BlakeCollierState25281H_MDS

Gamma(gapi)
ROP(ft / min)

Gamma(gapi)
WOB(klbs)

Gamma(gapi)
TPO(gal / min)

Gamma(gapi)
RPM(rpm)

Gamma(gapi)
SPP(psi)

Gamma(gapi)
INC(deg)

Gamma(gapi)
DIFP(psi)

Gamma(gapi)
BIT(in)

Correlation
 $r = -0.0056$

Correlation
 $r = 0.0213$

Correlation
 $r = -0.0031$

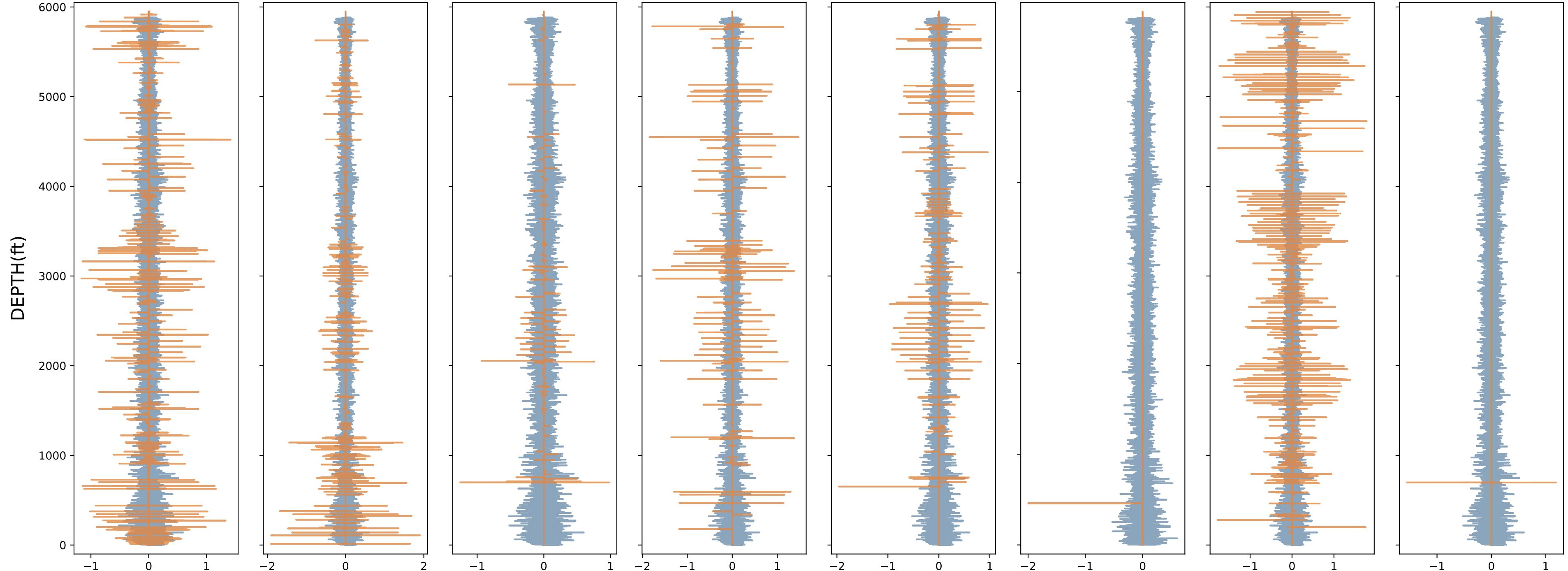
Correlation
 $r = 0.0167$

Correlation
 $r = 0.0059$

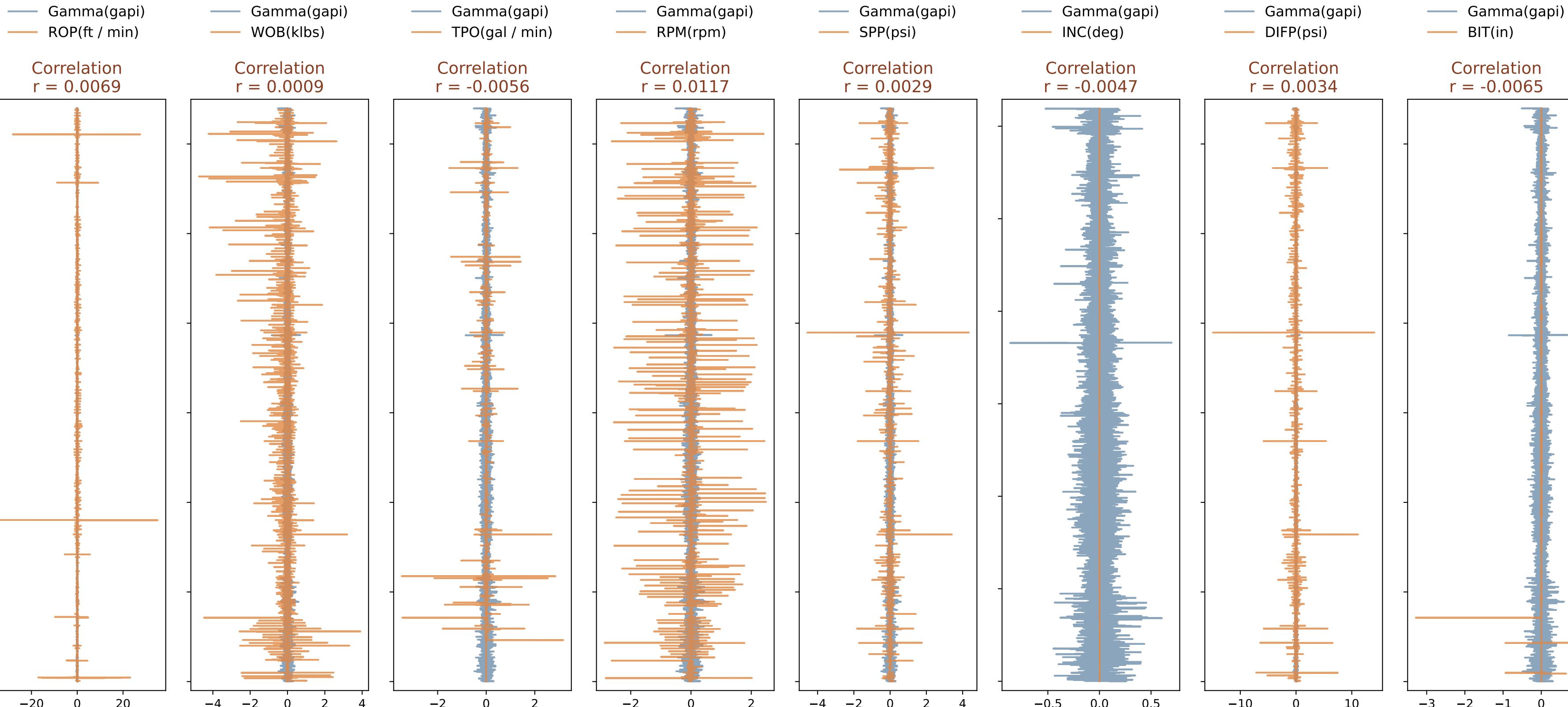
Correlation
 $r = 0.0009$

Correlation
 $r = 0.0018$

Correlation
 $r = -0.0108$



Relationships between Gamma and other features - No despiking CWE_BlakeCollierState25281H_MDS



Relationships between Gamma and other features - Despiked (2std outliers and moving median: 25 ft, 25%)
CWE_BlakeCollierState25281H_MDS

Gamma(gapi)
ROP(ft / min)

Gamma(gapi)
WOB(klbs)

Gamma(gapi)
TPO(gal / min)

Gamma(gapi)
RPM(rpm)

Gamma(gapi)
SPP(psi)

Gamma(gapi)
INC(deg)

Gamma(gapi)
DIFP(psi)

Gamma(gapi)
BIT(in)

Correlation
 $r = -0.0005$

Correlation
 $r = 0.0059$

Correlation
 $r = -0.009$

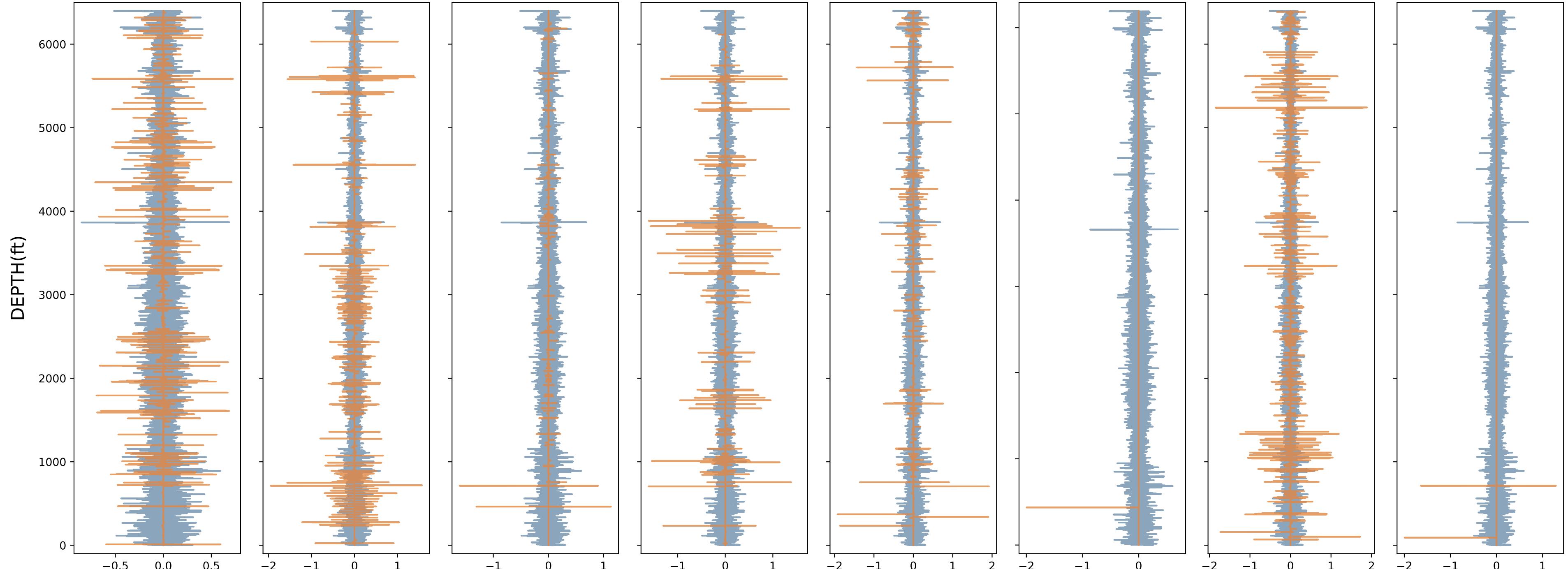
Correlation
 $r = 0.0114$

Correlation
 $r = 0.0008$

Correlation
 $r = -0.0131$

Correlation
 $r = 0.0002$

Correlation
 $r = 0.0$



Relationships between Gamma and other features - No despiking CWE_BlakeCollierState25281H_MDS

Gamma(gapi)
ROP(ft / min)

Gamma(gapi)
WOB(klbs)

Gamma(gapi)
TPO(gal / min)

Gamma(gapi)
RPM(rpm)

Gamma(gapi)
SPP(psi)

Gamma(gapi)
INC(deg)

Gamma(gapi)
DIFP(psi)

Gamma(gapi)
BIT(in)

Correlation
 $r = -0.0144$

Correlation
 $r = 0.008$

Correlation
 $r = 0.0051$

Correlation
 $r = -0.0066$

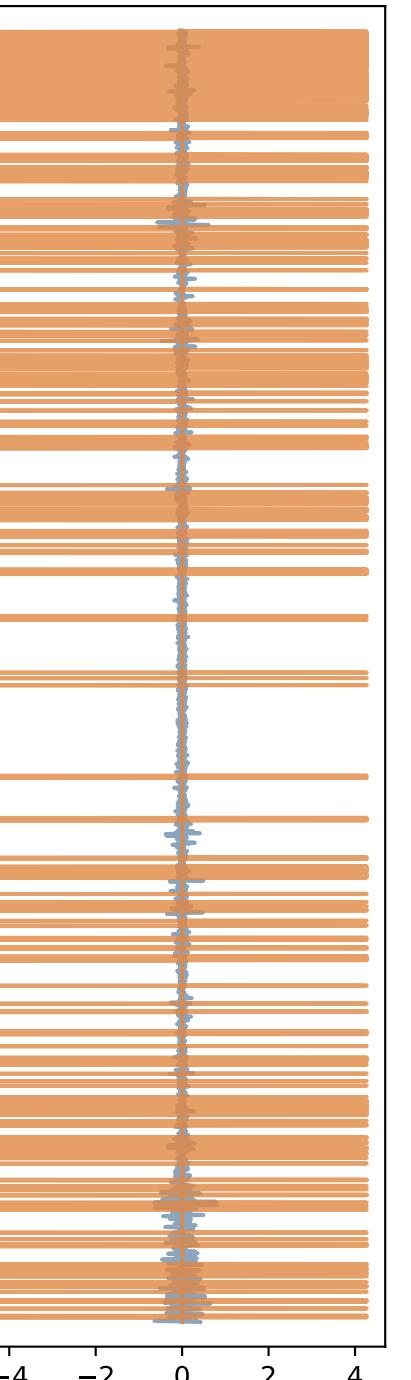
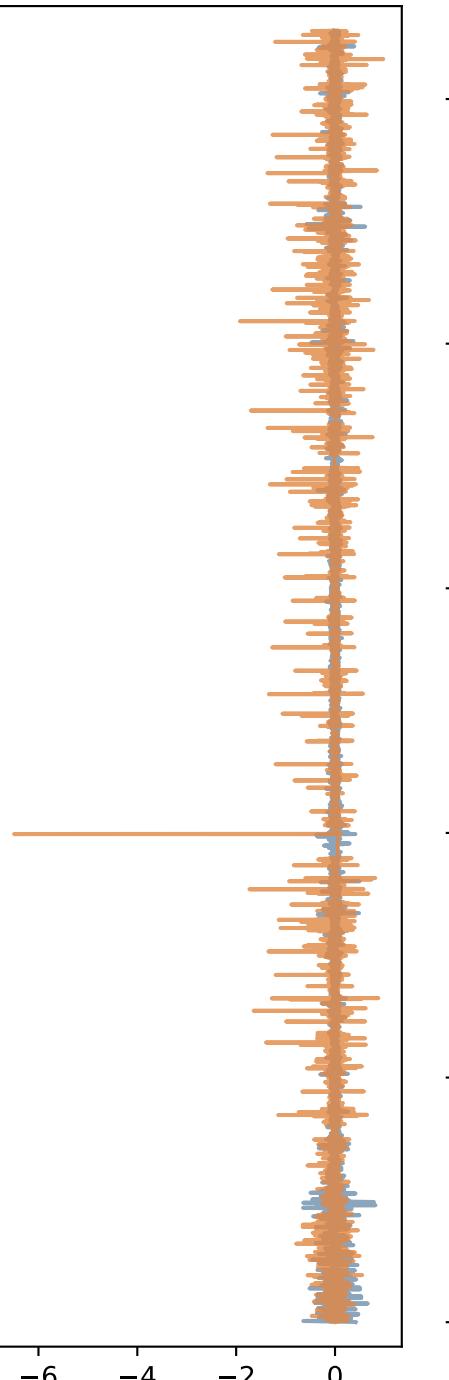
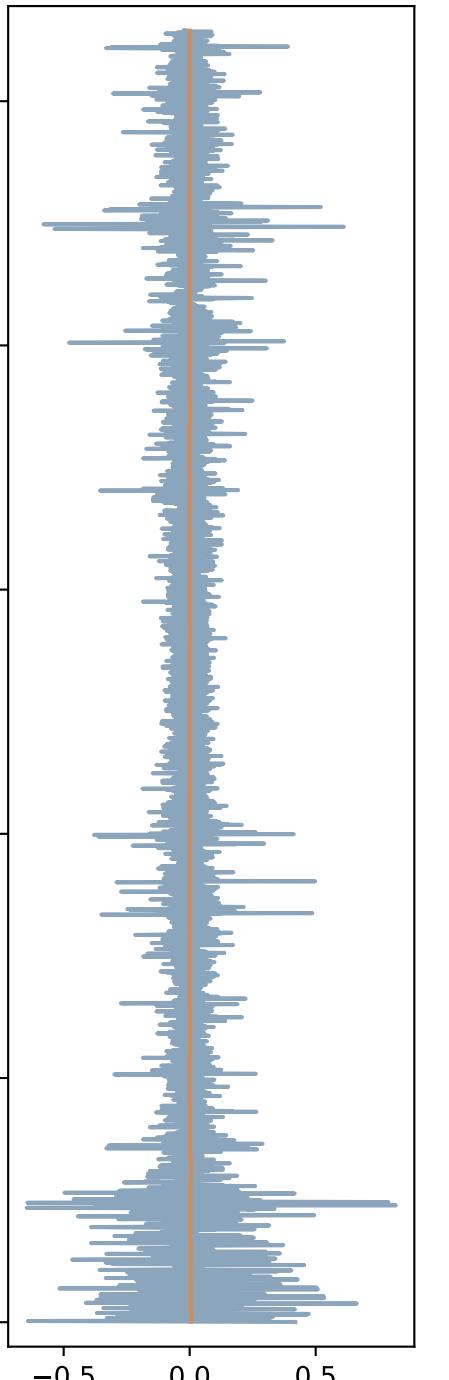
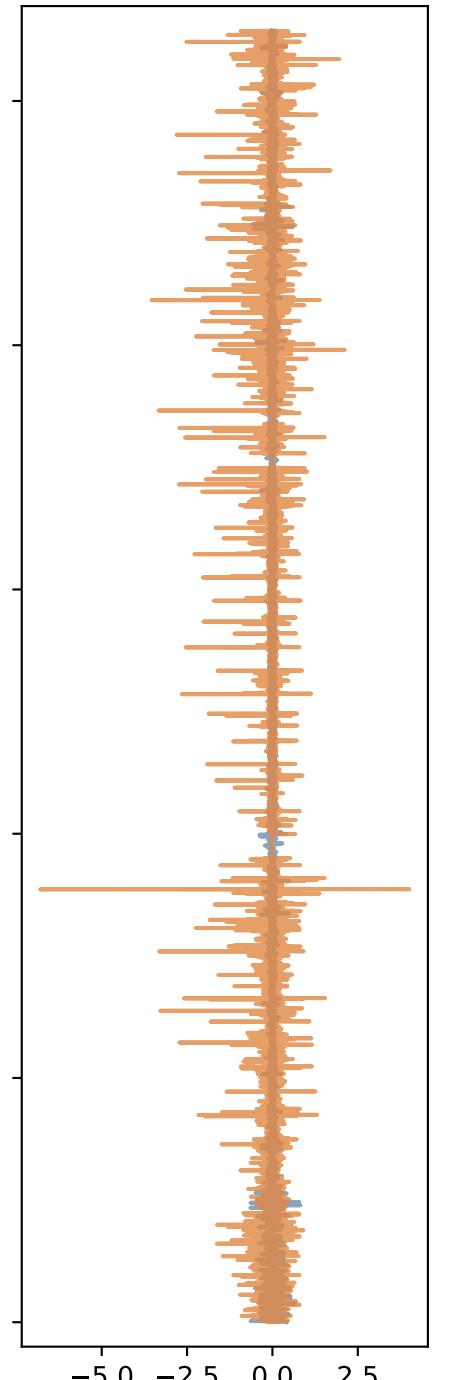
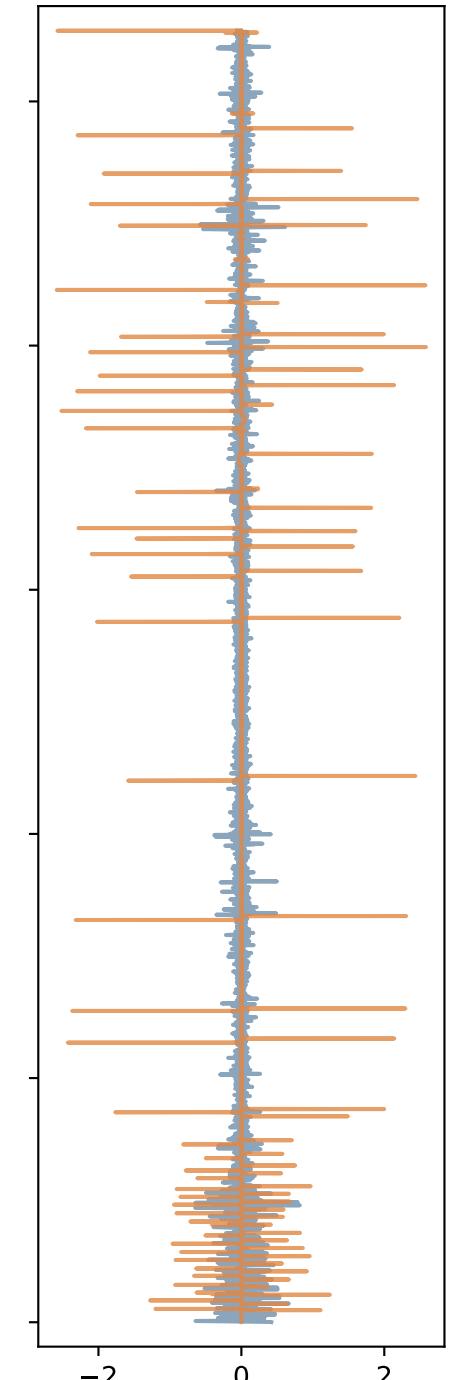
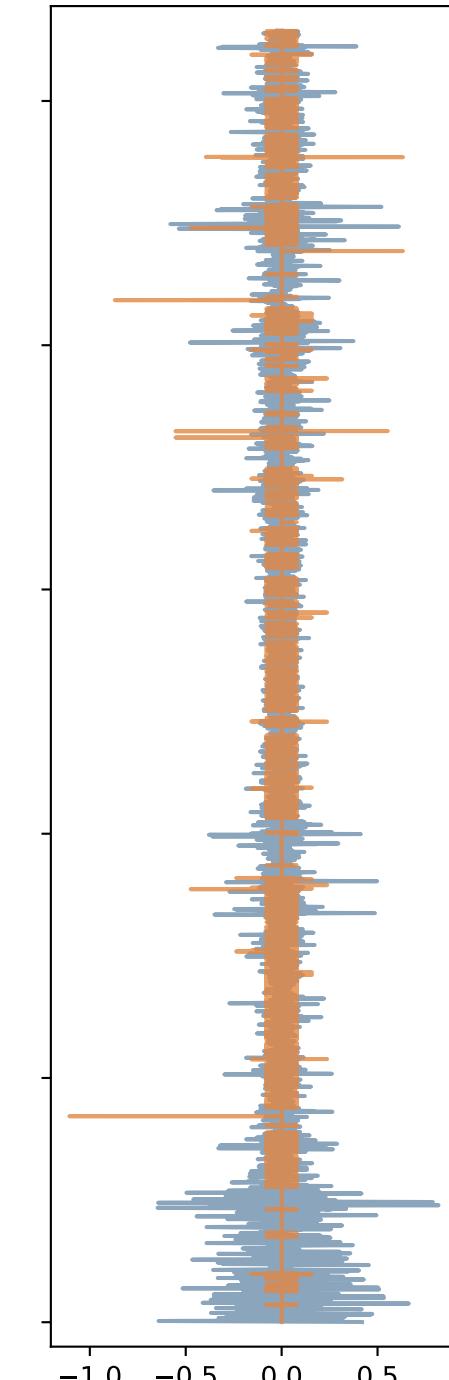
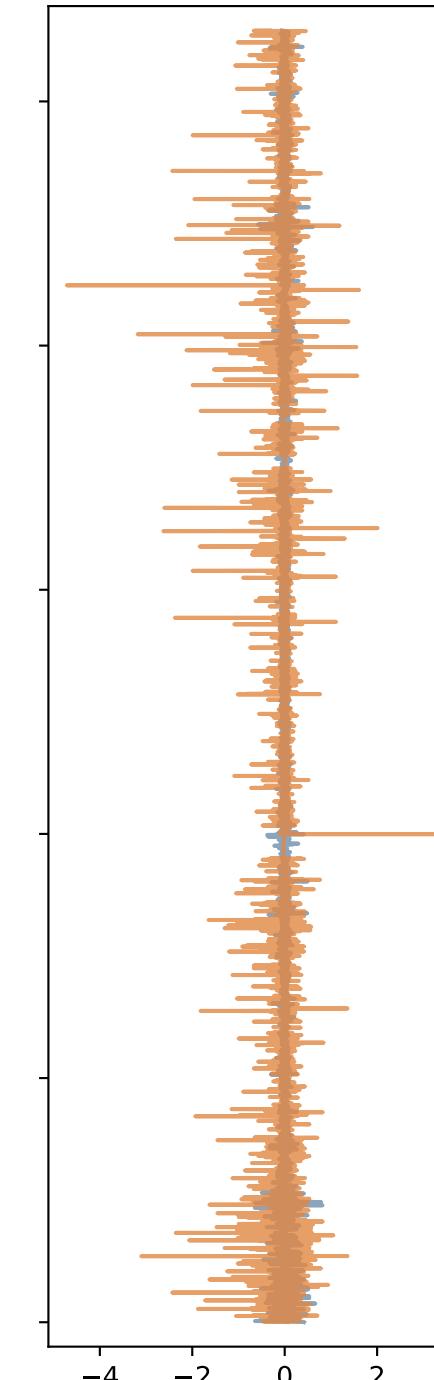
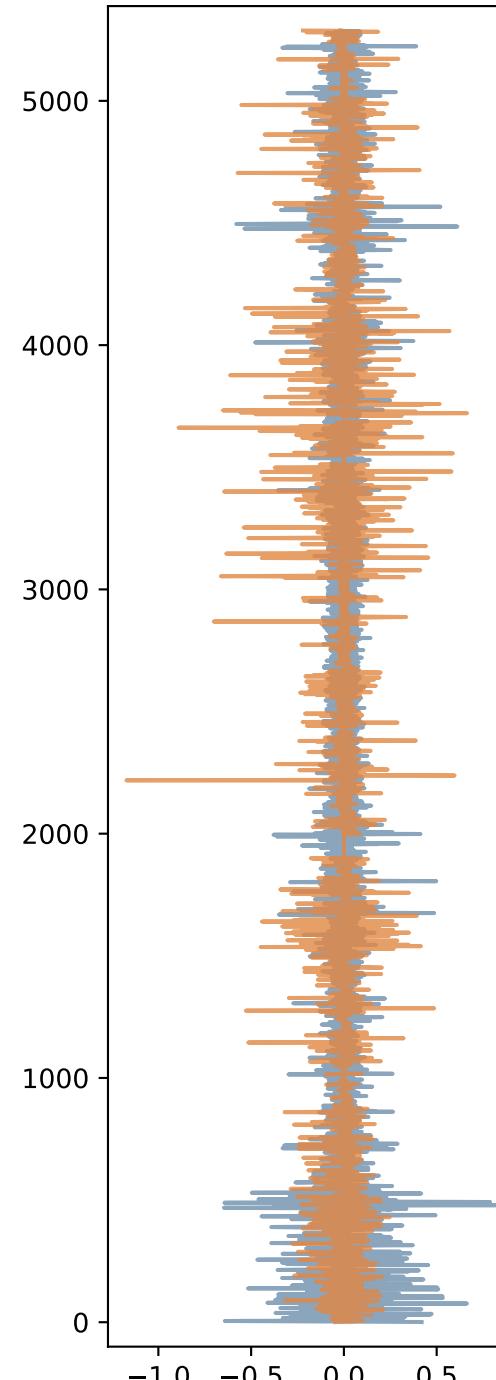
Correlation
 $r = -0.0018$

Correlation
 $r = -0.0238$

Correlation
 $r = -0.0083$

Correlation
 $r = 0.0038$

DEPTH(ft)



Relationships between Gamma and other features - Despiked (2std outliers and moving median: 25 ft, 25%)
CWE_BlakeCollierState25281H_MDS

Gamma(gapi)
ROP(ft / min)

Gamma(gapi)
WOB(klbs)

Gamma(gapi)
TPO(gal / min)

Gamma(gapi)
RPM(rpm)

Gamma(gapi)
SPP(psi)

Gamma(gapi)
INC(deg)

Gamma(gapi)
DIFP(psi)

Gamma(gapi)
BIT(in)

Correlation
 $r = -0.0094$

Correlation
 $r = 0.0032$

Correlation
 $r = 0.0095$

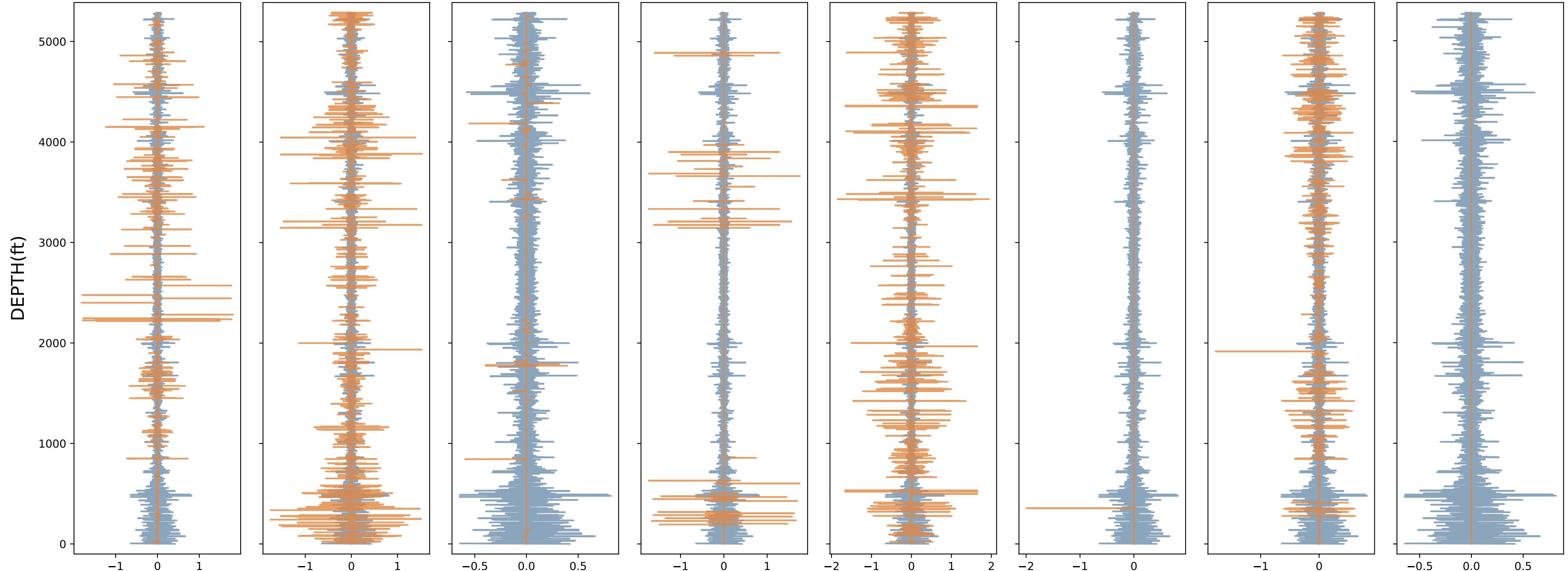
Correlation
 $r = 0.0031$

Correlation
 $r = 0.0216$

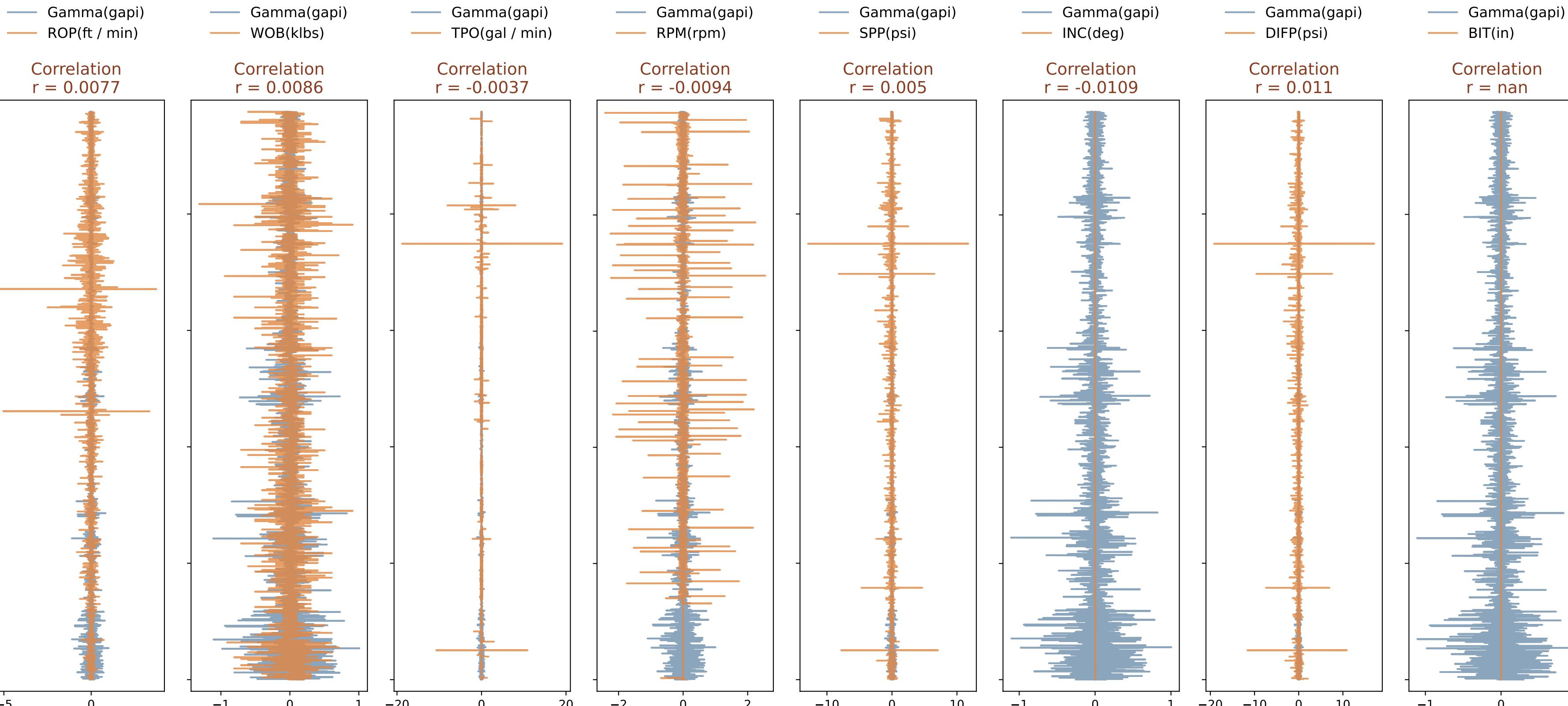
Correlation
 $r = -0.0121$

Correlation
 $r = 0.0071$

Correlation
 $r = \text{nan}$



Relationships between Gamma and other features - No despiking CWE_BlakeCollierState25281H_MDS



Relationships between Gamma and other features - Despiked (2std outliers and moving median: 25 ft, 25%)
CWE_BlakeCollierState25281H_MDS

Gamma(gapi)
ROP(ft / min)

Gamma(gapi)
WOB(klbs)

Gamma(gapi)
TPO(gal / min)

Gamma(gapi)
RPM(rpm)

Gamma(gapi)
SPP(psi)

Gamma(gapi)
INC(deg)

Gamma(gapi)
DIFP(psi)

Gamma(gapi)
BIT(in)

Correlation
 $r = 0.0266$

Correlation
 $r = 0.0045$

Correlation
 $r = 0.0065$

Correlation
 $r = -0.0026$

Correlation
 $r = 0.0175$

Correlation
 $r = 0.0011$

Correlation
 $r = 0.0044$

Correlation
 $r = \text{nan}$

DEPTH(ft)

