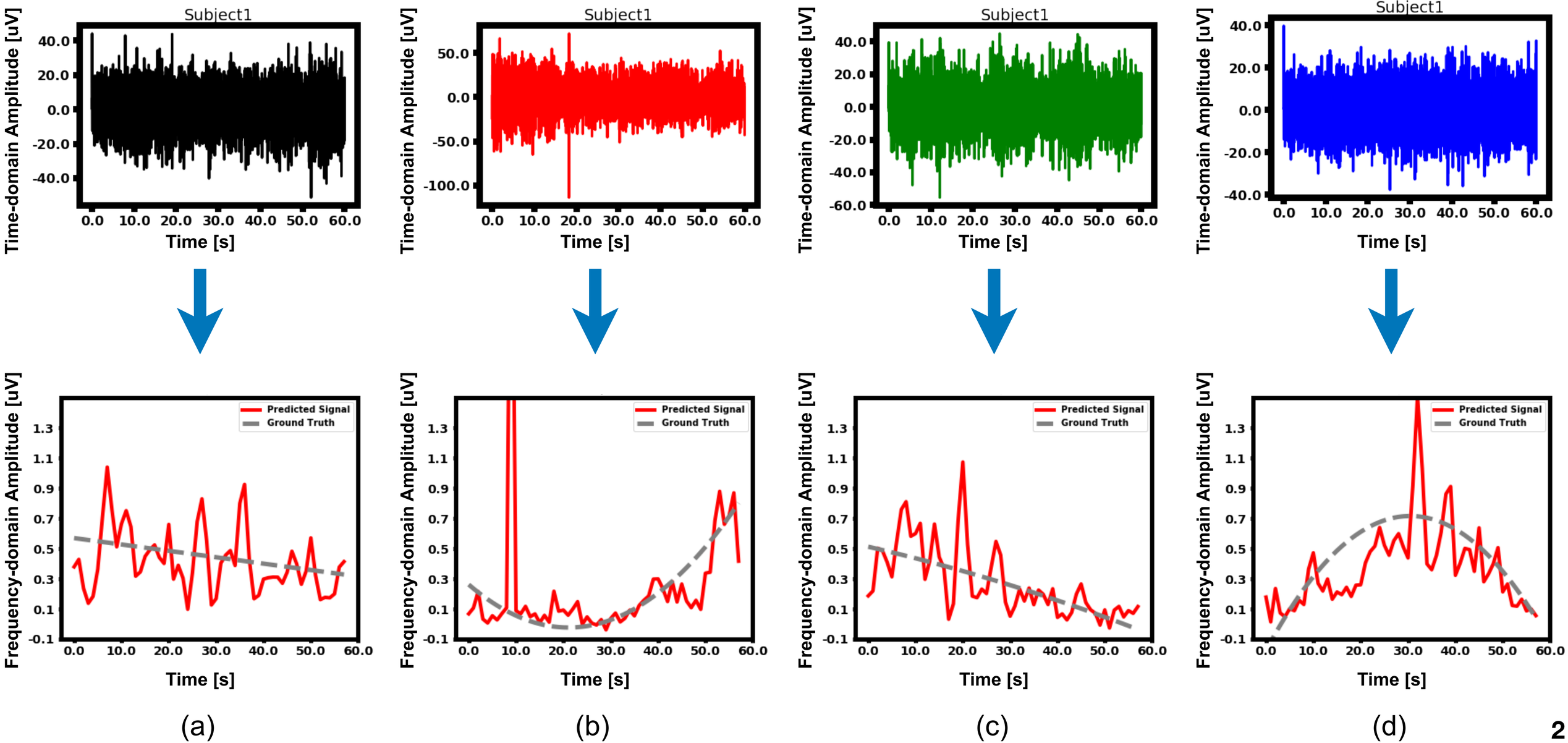
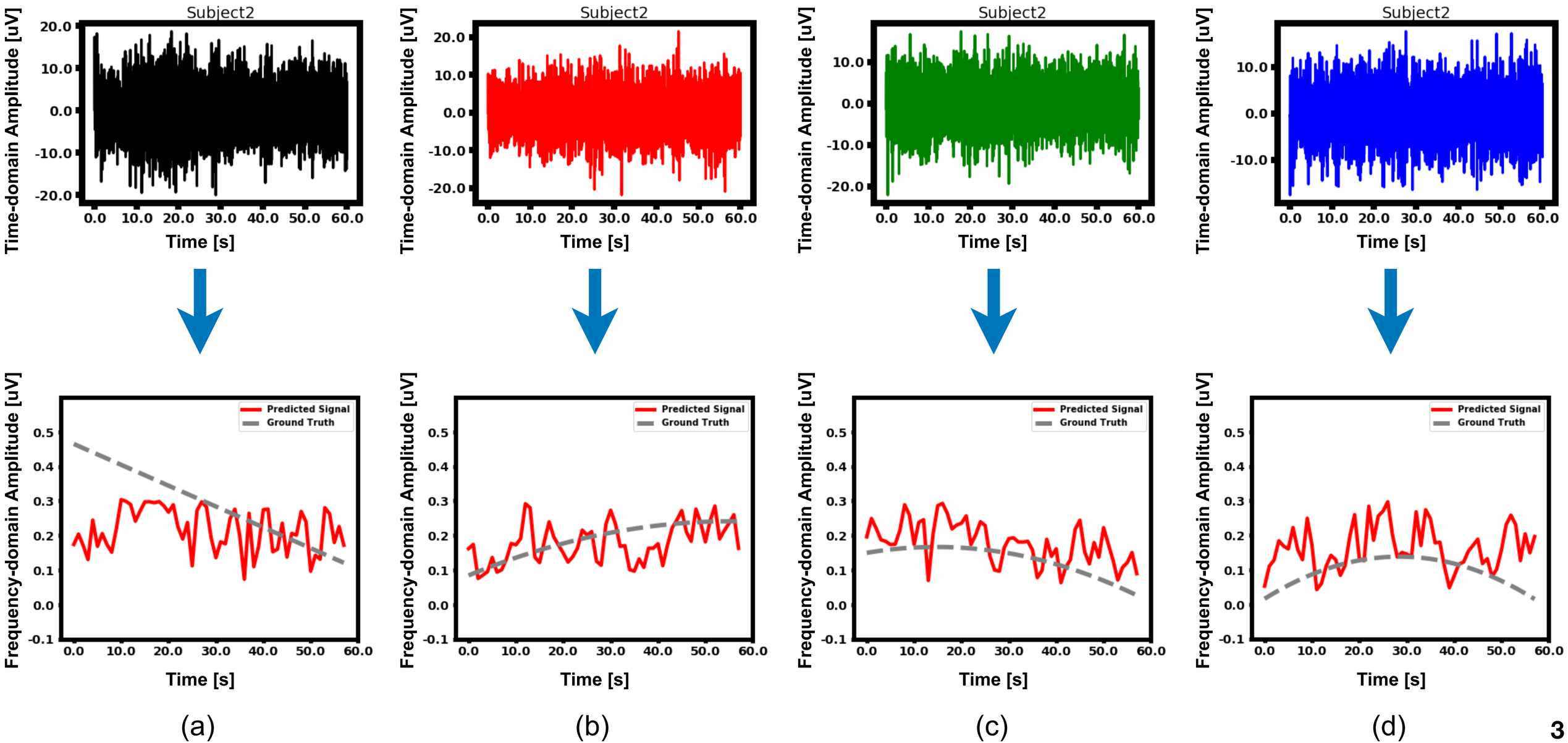
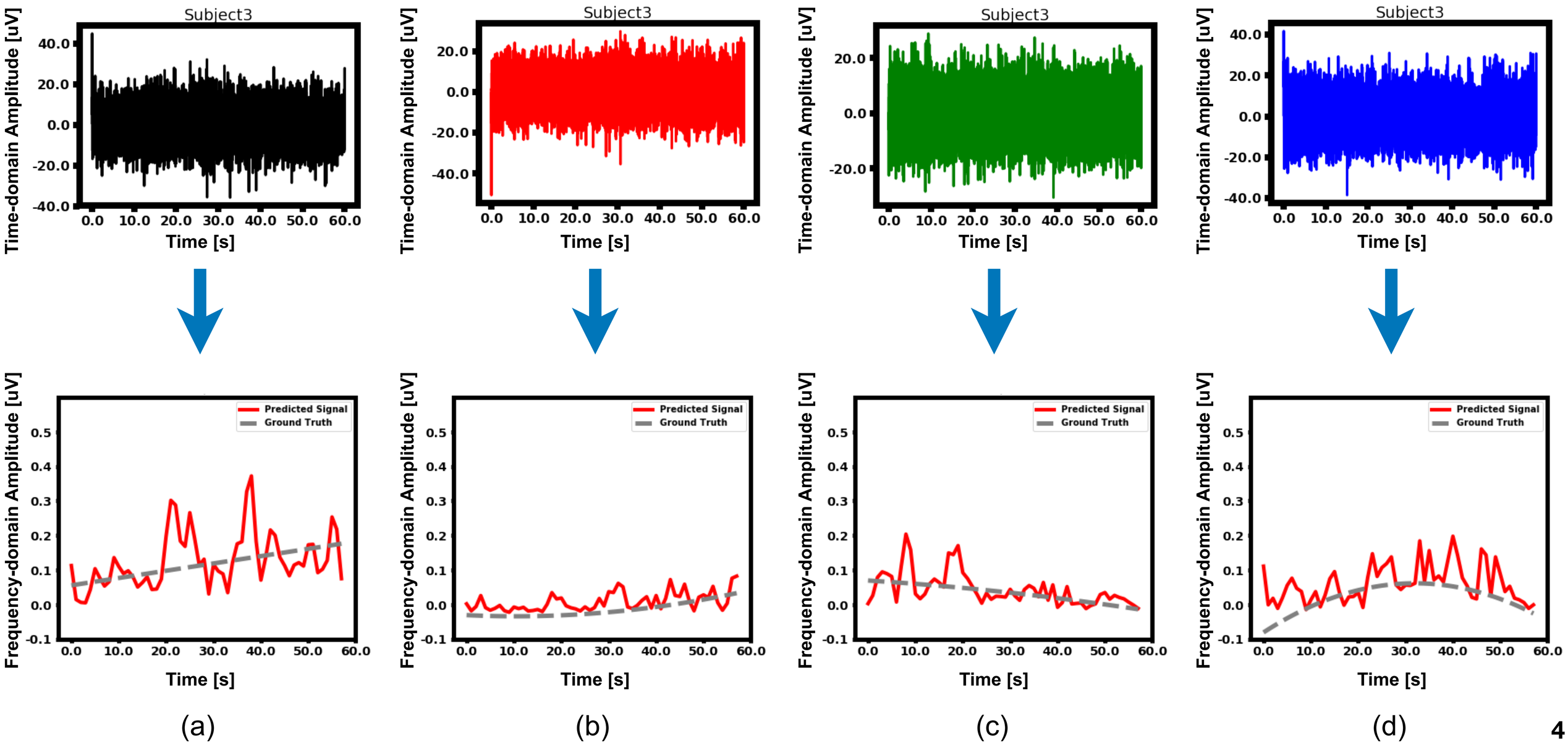
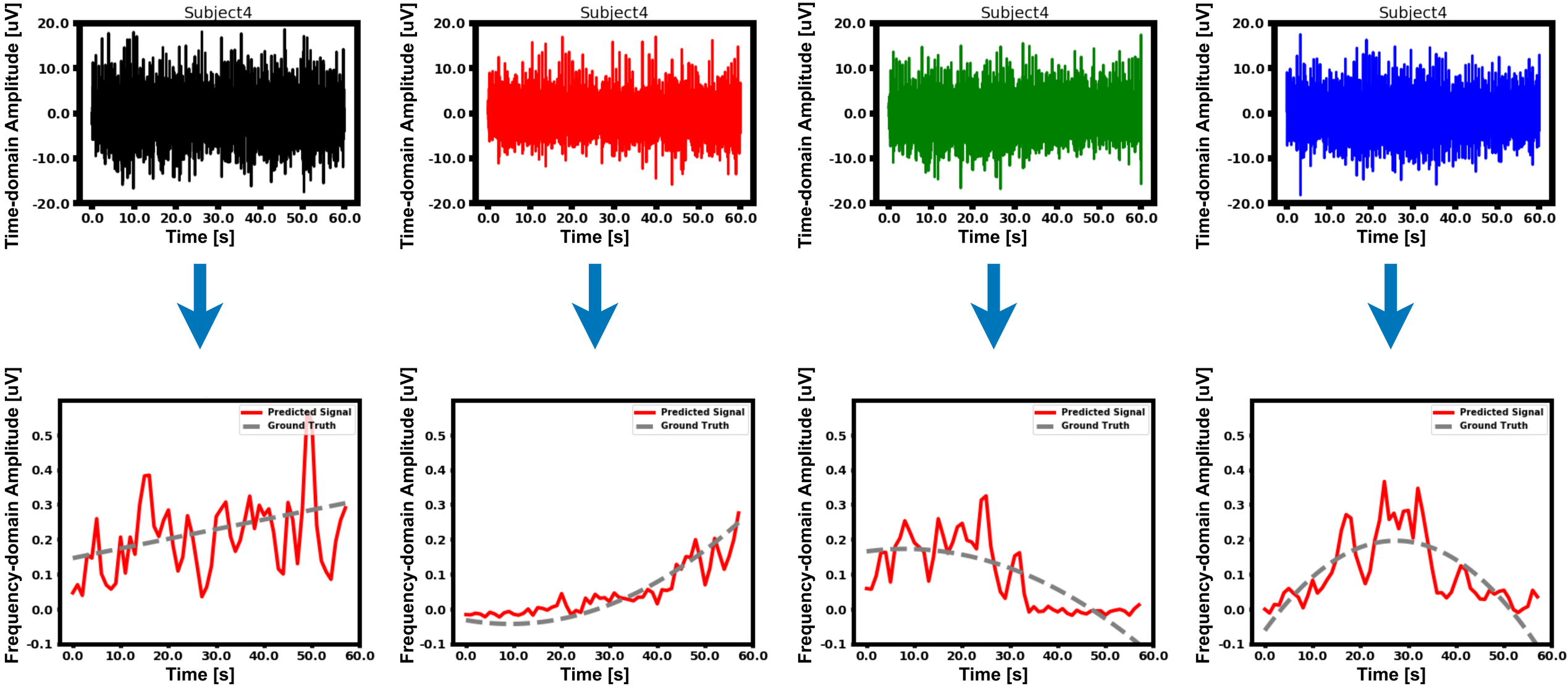
Supplementary Materials

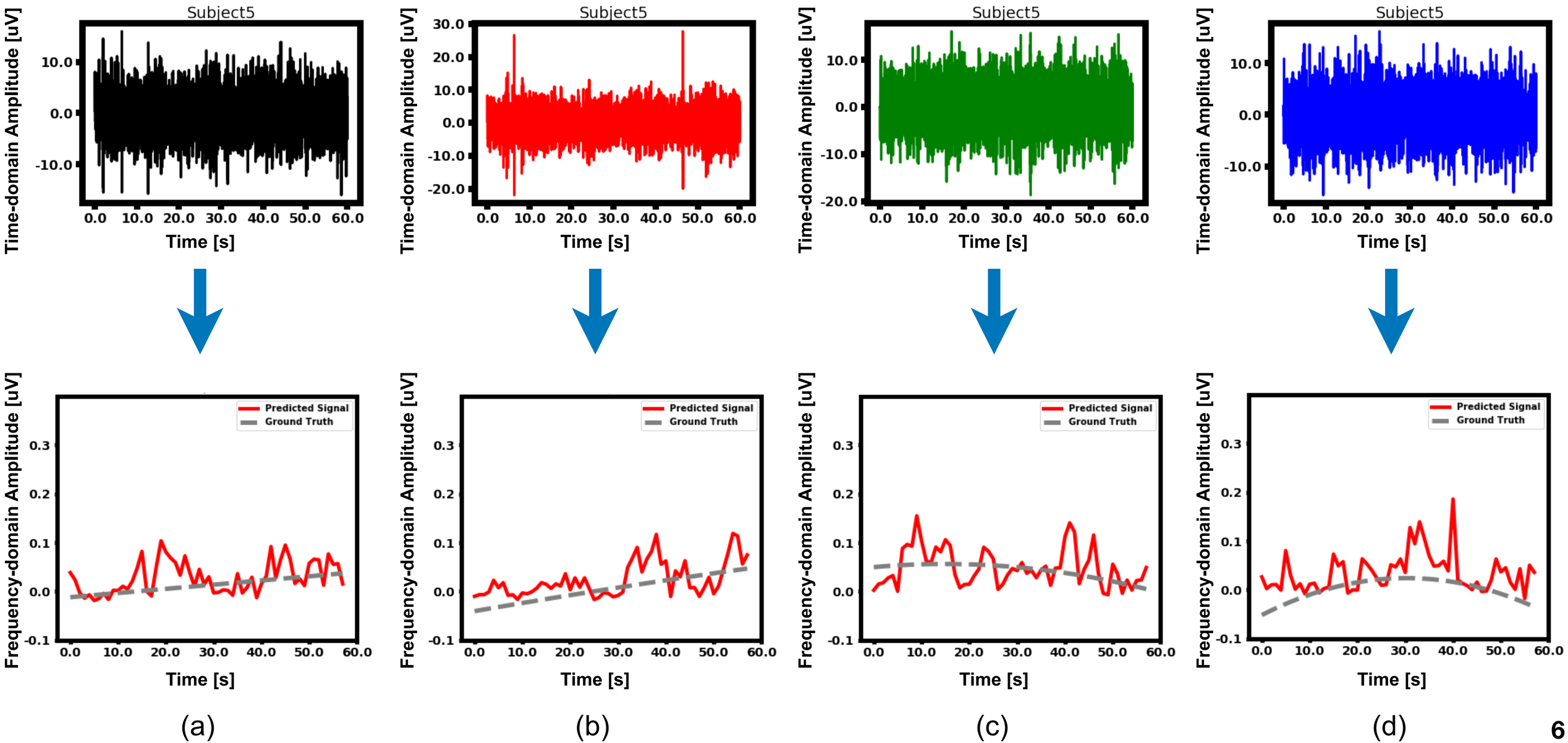
Displaying the relationship between the predicted signals from the SVR model and the ground truth signals (the curve-fitted signals). The upper row demonstrates raw SSVEP responses before feeding into the proposed predictive model. The bottom row displays a comparison of ground truth (target signals from performing the curve fitting method on the SSVEP amplitude signals of testing set) and predicted signals (a)-(d) from experimental condition 1-4 respectively. Leave-one-subject-out cross-validation (one out of sixteen) was used to evaluate the model. *Note:The results were supported for Figure 6.*

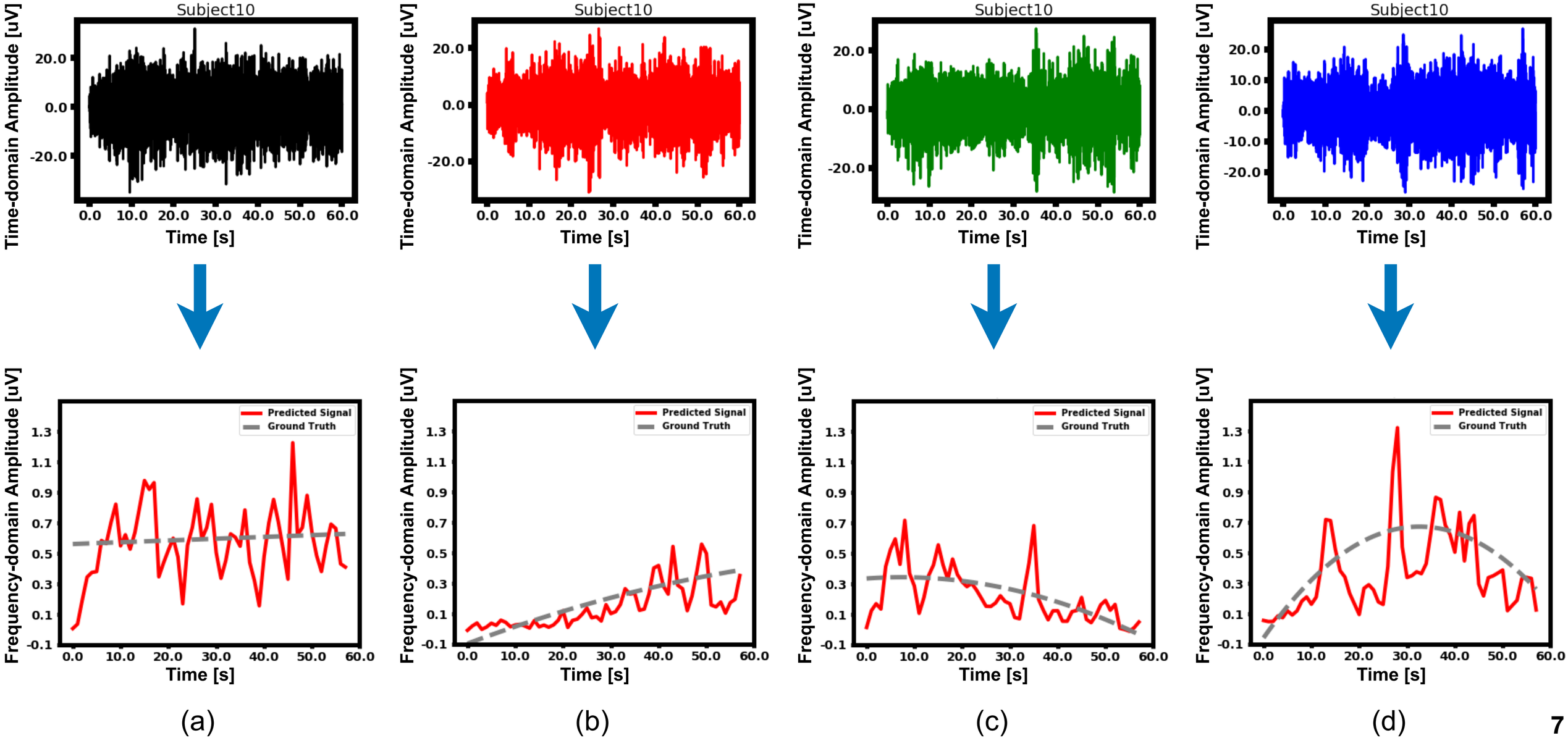

Subject1
Time-domain Amplitude [uV]
Time [s]
Frequency-domain Amplitude [uV]
Predicted Signal
Ground Truth
(a)
(b)
(c)
(d)

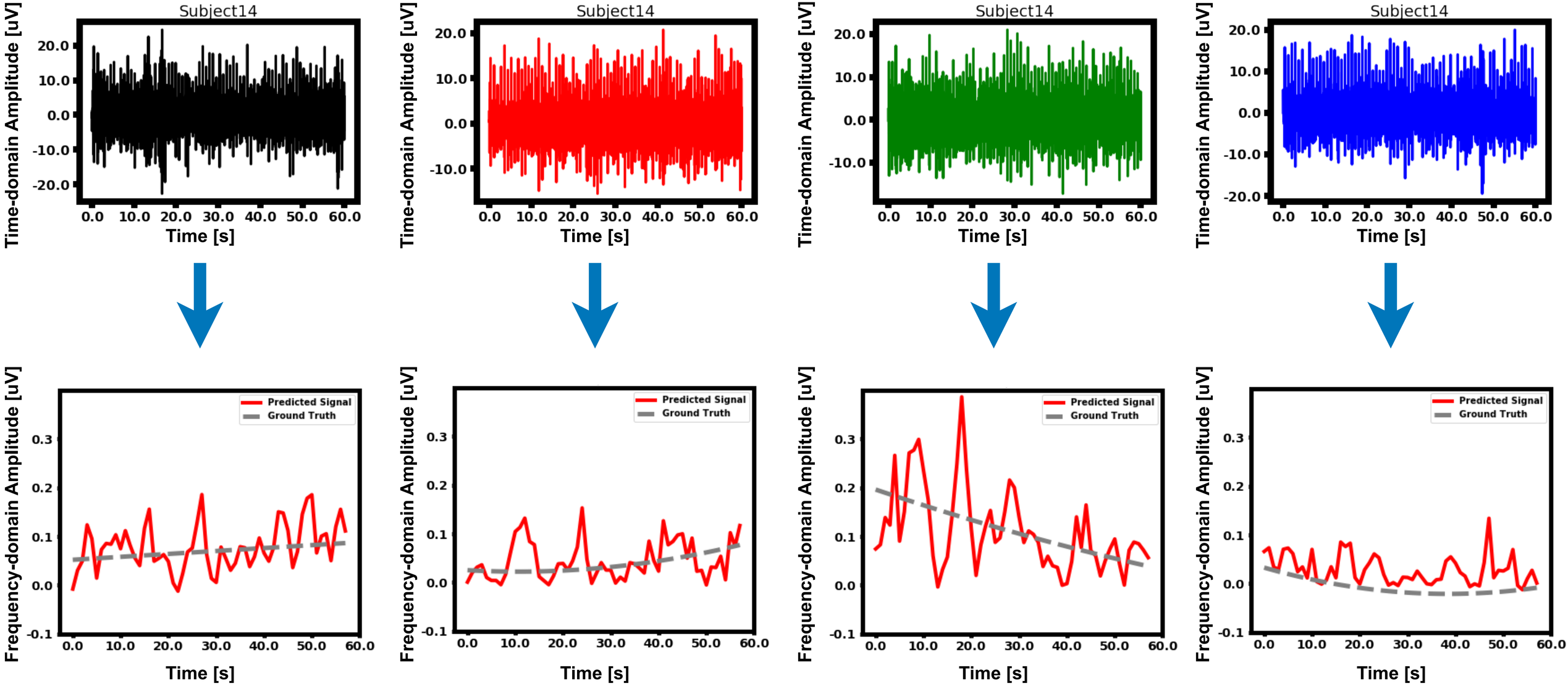

Subject2
Time-domain Amplitude [uV]
Time [s]
Frequency-domain Amplitude [uV]
Predicted Signal
Ground Truth
(a)
(b)
(c)
(d)

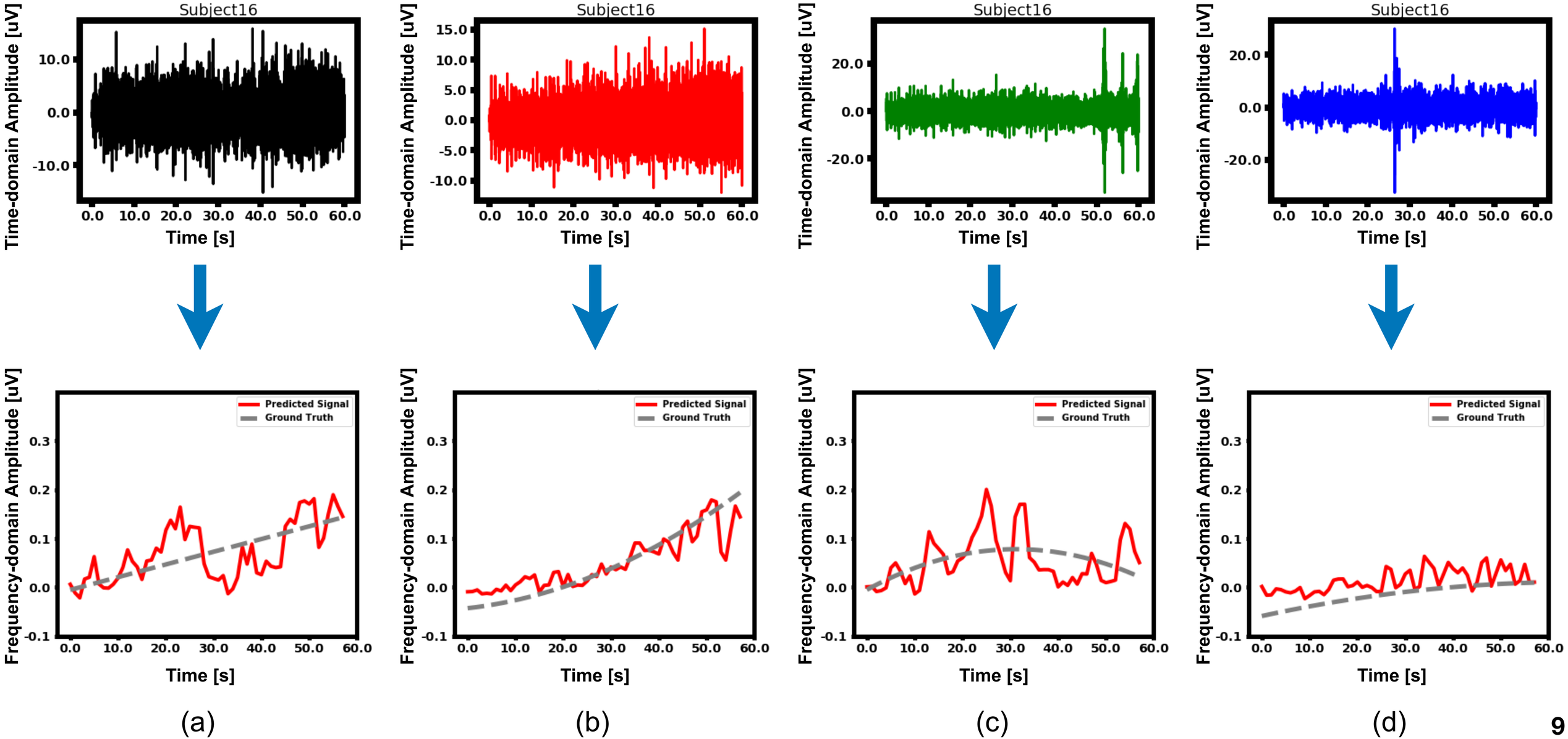

Subject3
Time-domain Amplitude [uV]
Time [s]
Frequency-domain Amplitude [uV]
Predicted Signal
Ground Truth
(a)
(b)
(c)
(d)


Subject4
Time-domain Amplitude [uV]
Time [s]
Frequency-domain Amplitude [uV]
Predicted Signal
Ground Truth
(a)
(b)
(c)
(d)


Subject5
Time-domain Amplitude [uV]
Time [s]
Predicted Signal
Ground Truth
Frequency-domain Amplitude [uV]
(a)
(b)
(c)
(d)


Subject10
Time-domain Amplitude [uV]
Time [s]
Frequency-domain Amplitude [uV]
Predicted Signal
Ground Truth
(a)
(b)
(c)
(d)


Subject14
Time-domain Amplitude [uV]
Time [s]
Frequency-domain Amplitude [uV]
Predicted Signal
Ground Truth
(a)
(b)
(c)
(d)


Subject16
Time-domain Amplitude [uV]
Time [s]
Frequency-domain Amplitude [uV]
Predicted Signal
Ground Truth
(a)
(b)
(c)
(d)