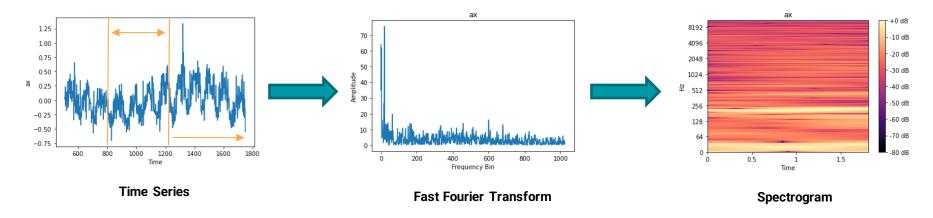


Midterm Presentation

Felix, Johanna, Chiara, Jen and Edouard

Spectrograms – An Image Representation of Time Series

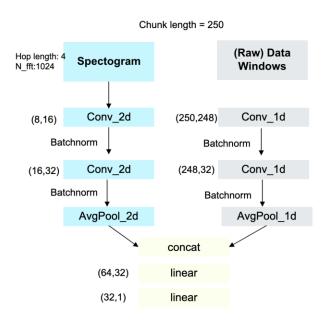
Towards Deep Learning

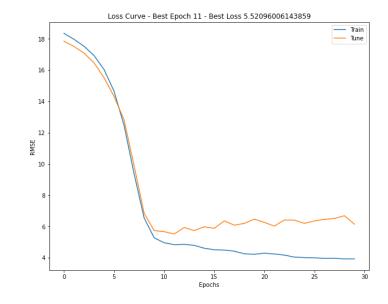


- Time Series can be converted into images while preserving most of their information.
- Opportunity to apply Convolutional Neural Networks to our Signals! Related work in the field motivates this approach.

Deep Learning – pen feature model architecture

Pipeline – model implementation

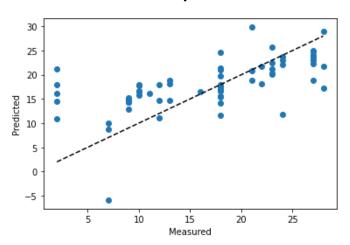




Deep Learning – results and error distribution

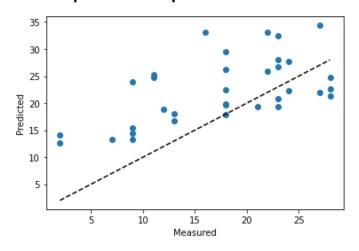
Pipeline – model implementation

Sentence-based BHK prediction distribution



RMSE: **5.2** (on par with machine learning model without age normalization)

Loop-based BHK prediction distribution



RMSE: 5.98