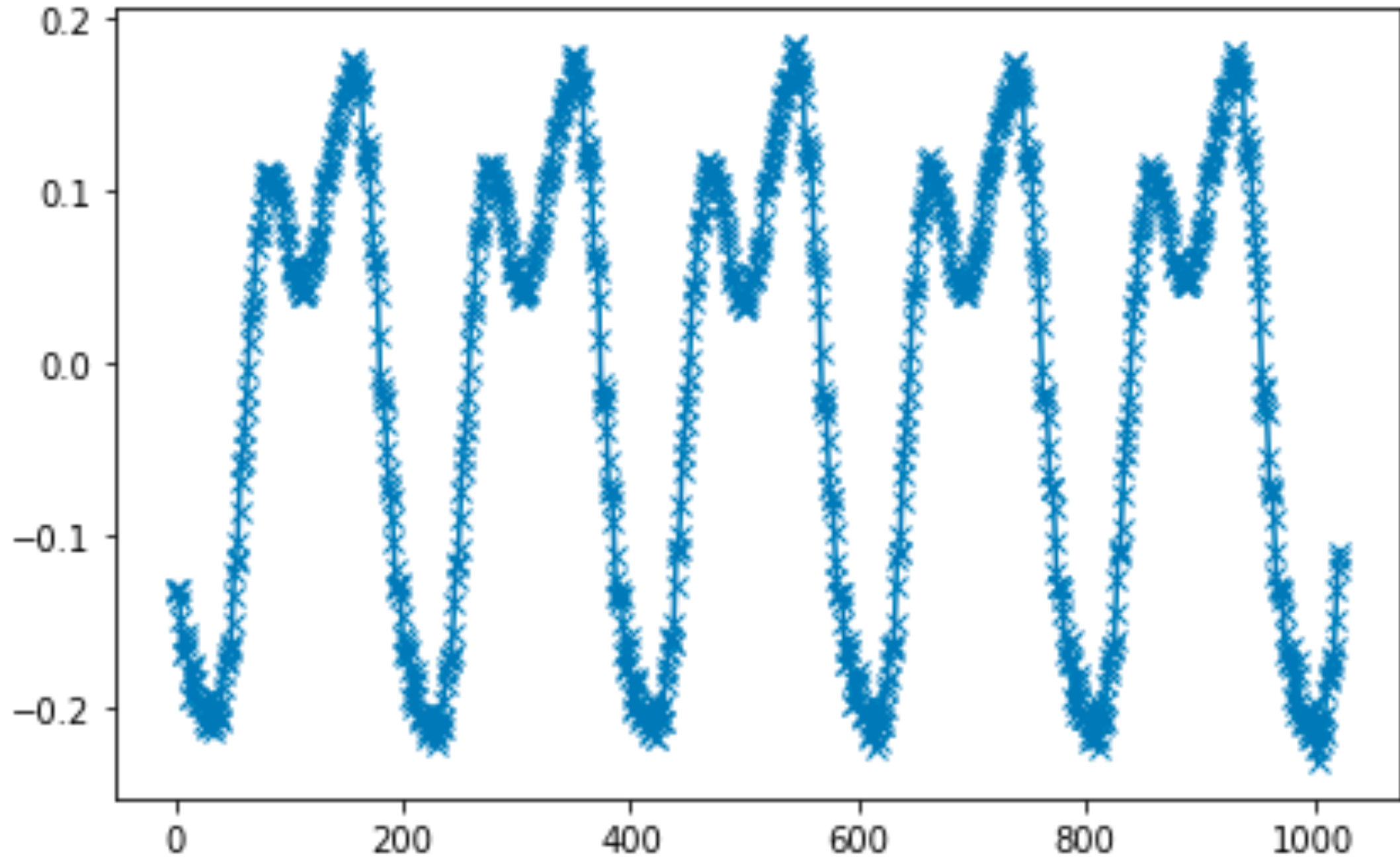


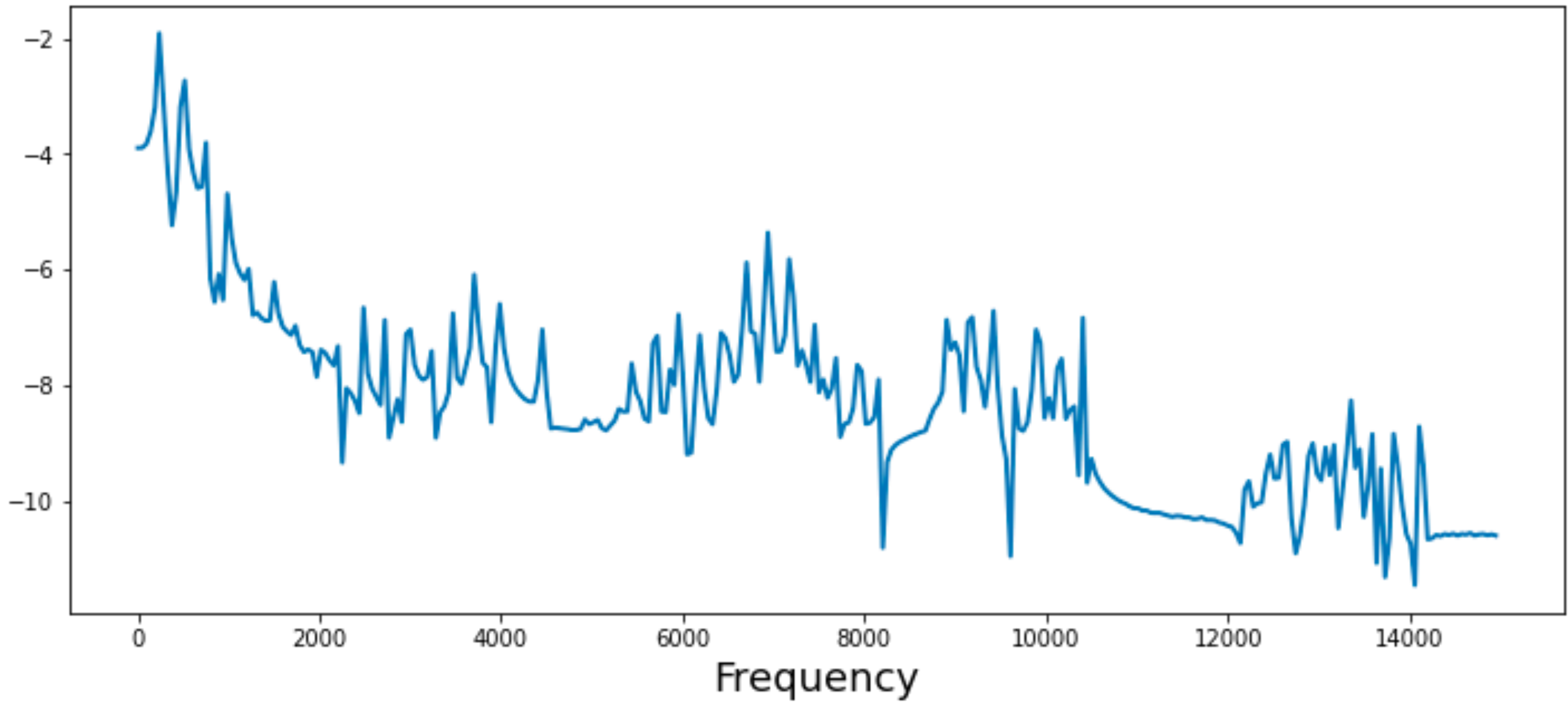


**Frequency analysis**

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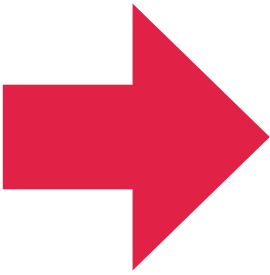




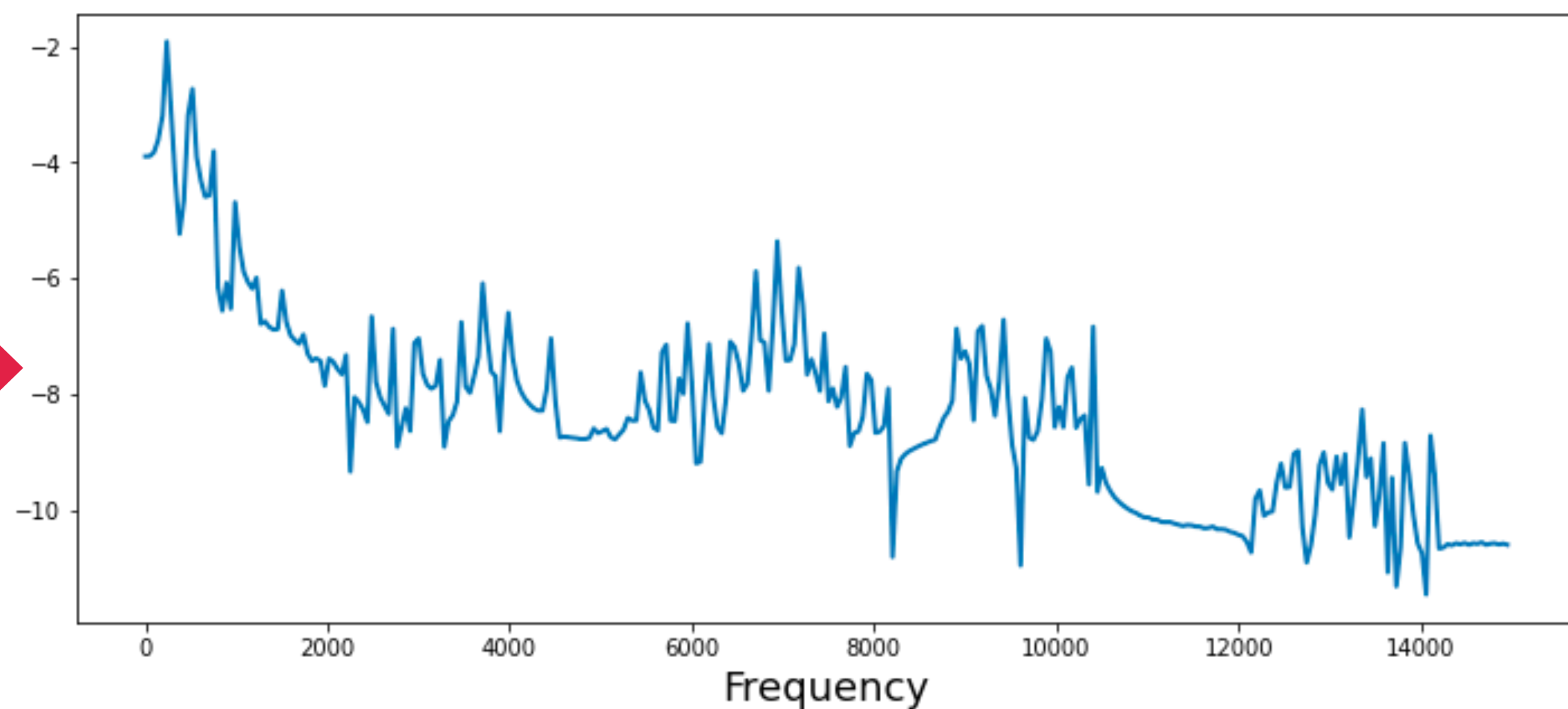
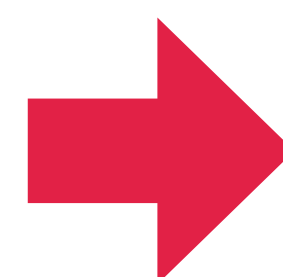
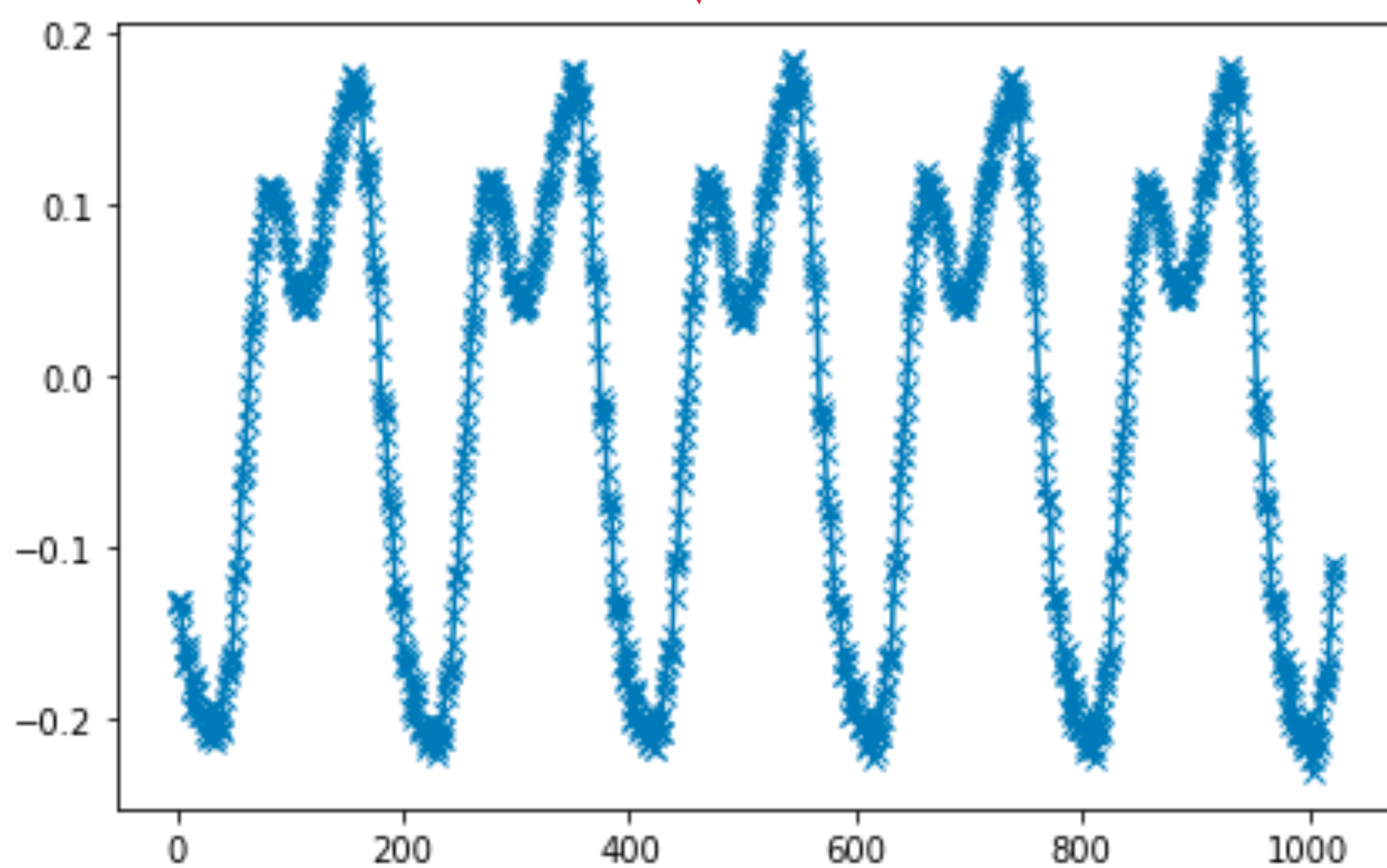








# Frequency analysis



# Quantifying sound

- ▶ Perceptual characteristics

- Loudness
- Pitch
- Timbre (tone color)

- ▶ Physical characteristics

- Intensity
- Frequency
- Time variation and harmonic spectrum