



# Mock Data

- ▶ Challenge

# Mock Data Challenge!

## Given

- Training data containing only noise: **TrainingData.mat**
- Noise is Gaussian, stationary
- Data to be analysed: **analysisData.mat**
- **Signal:** Quadratic chirp
- **Parameter search ranges:**
  - $a_1 \in [40, 100]$ ,
  - $a_2 \in [1, 50]$ ,
  - $a_3 \in [1, 15]$

## Find

- Is there a signal in the analysis data?
- If so, estimate its parameters
- Use PSO to obtain GLRT and MLE