

Station No.  
CE58658



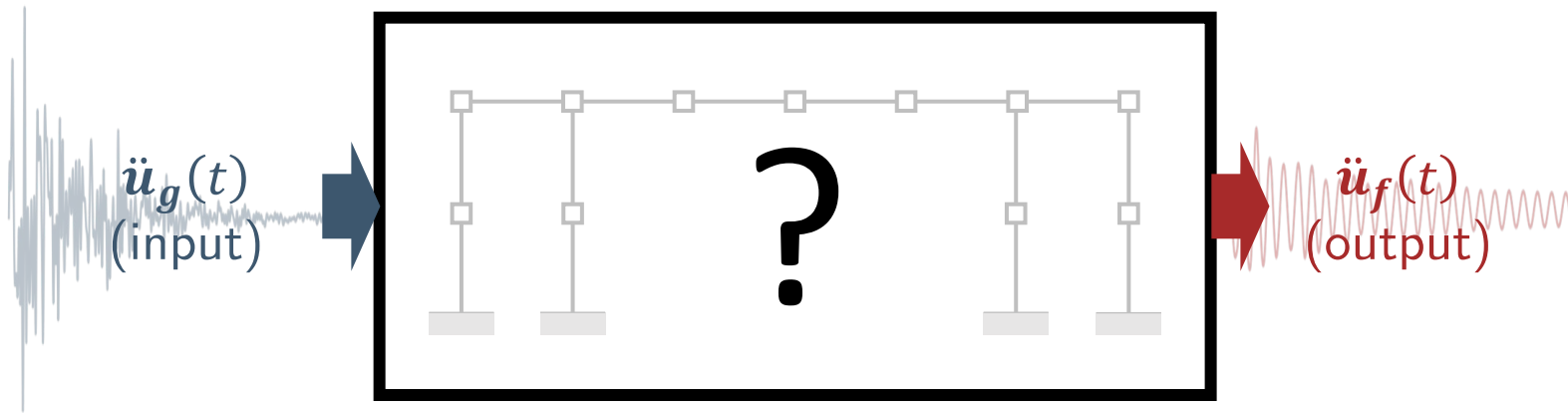
Chrystal Chern, PhD 2024  
Supervisor: Prof. Mosalam  
Topic: Vibration-based  
Structural Health Monitoring

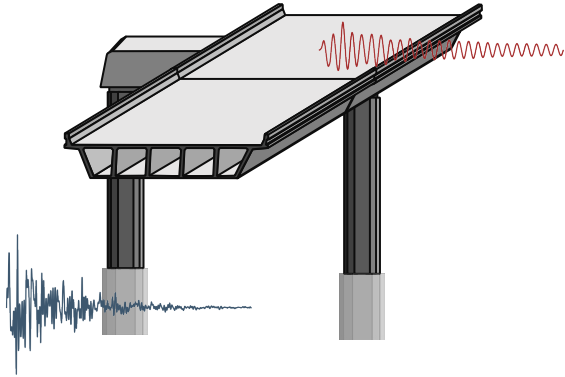


# Vibration-based structural health monitoring

Inverse problem:

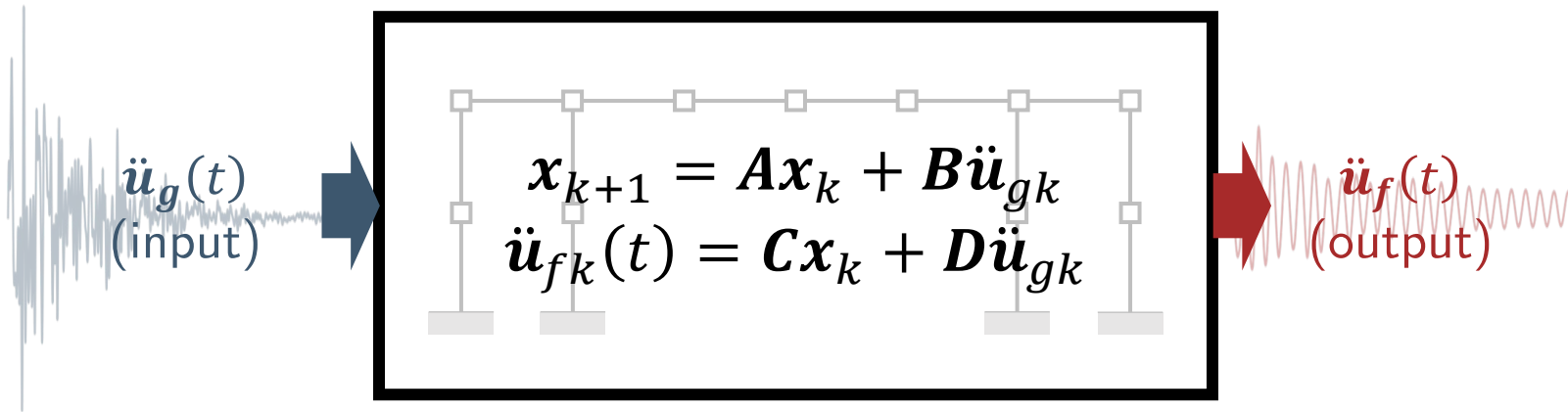
*Given some directly observed data about a physical system for some scenario of interest, construct a causal relationship that would produce the same data as the physical system for all scenarios of interest.*





`pip install mdof`

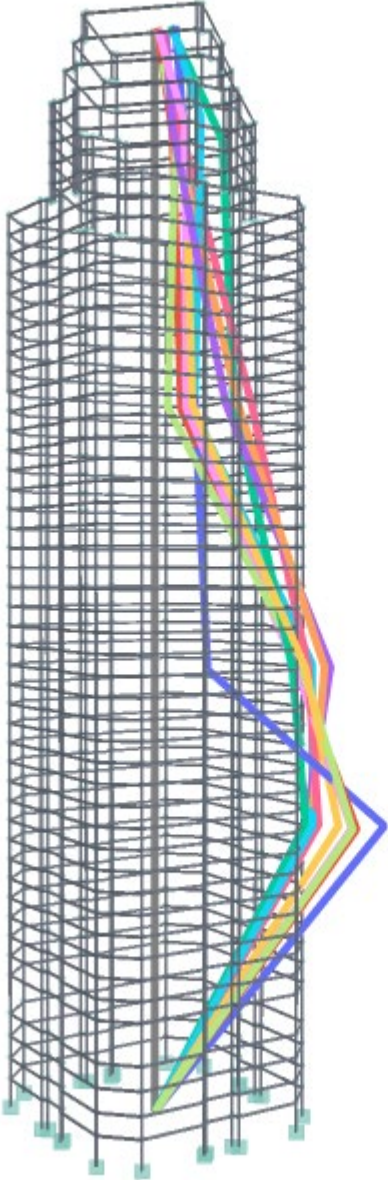
System identification:  
*Pose the inverse problem in  
an algebraic structure.*



<https://chrystalchern.github.io/mdof/>

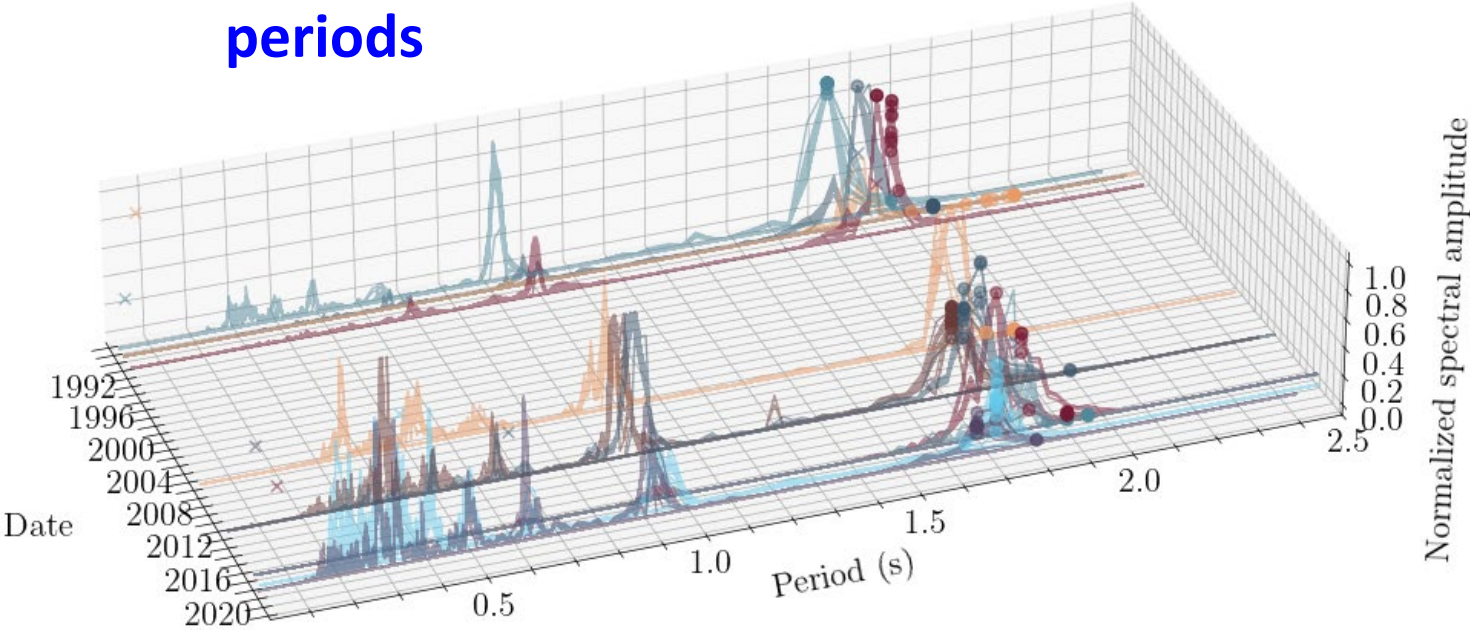


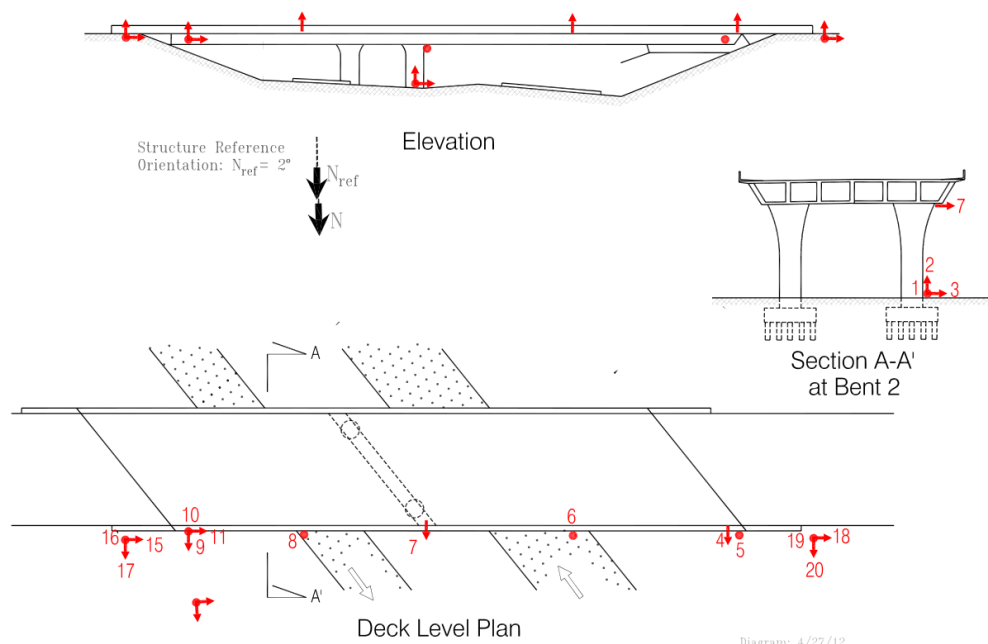
shapes



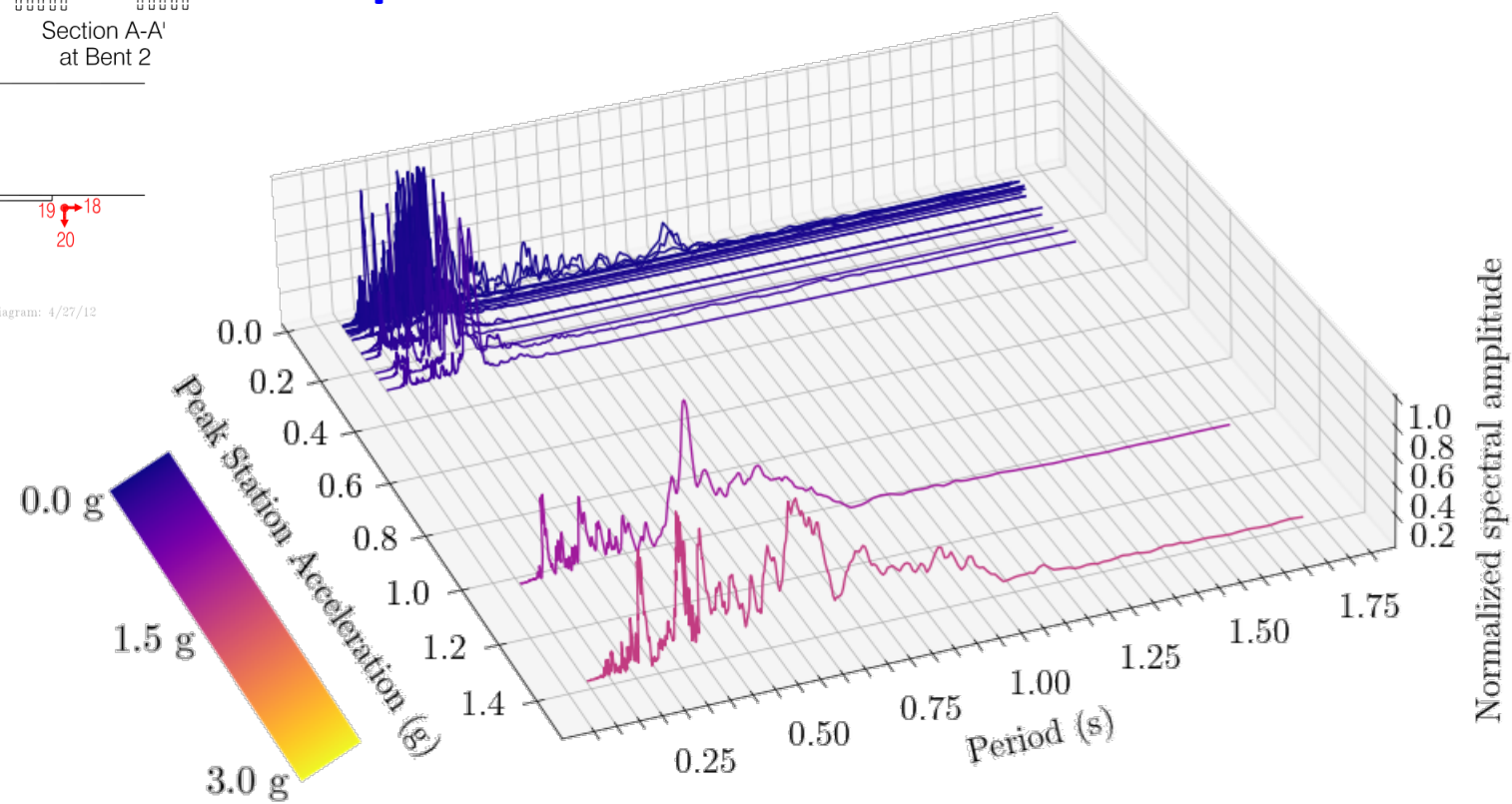
- Primary nodes
- Internal nodes
- Rigid Diaphragms
- Frame elements
- Rigid offsets
- Parent Nodes
- core channels
- 1992-06-28
- 2008-07-29
- 2019-07-04
- 2019-07-06
- 2020-09-19
- 2021-04-05
- 2014-03-17
- 2014-03-29
- 1994-01-17
- 1991-06-28

periods

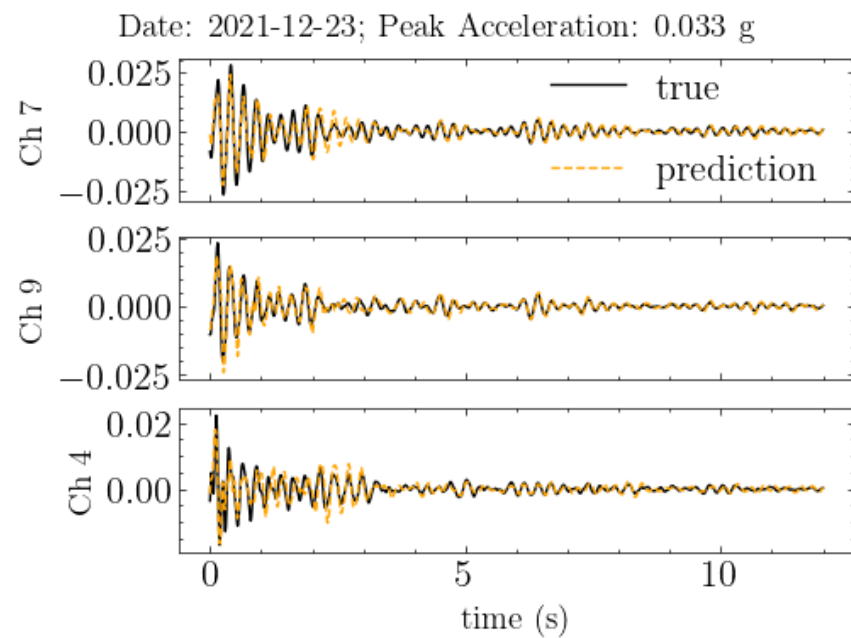
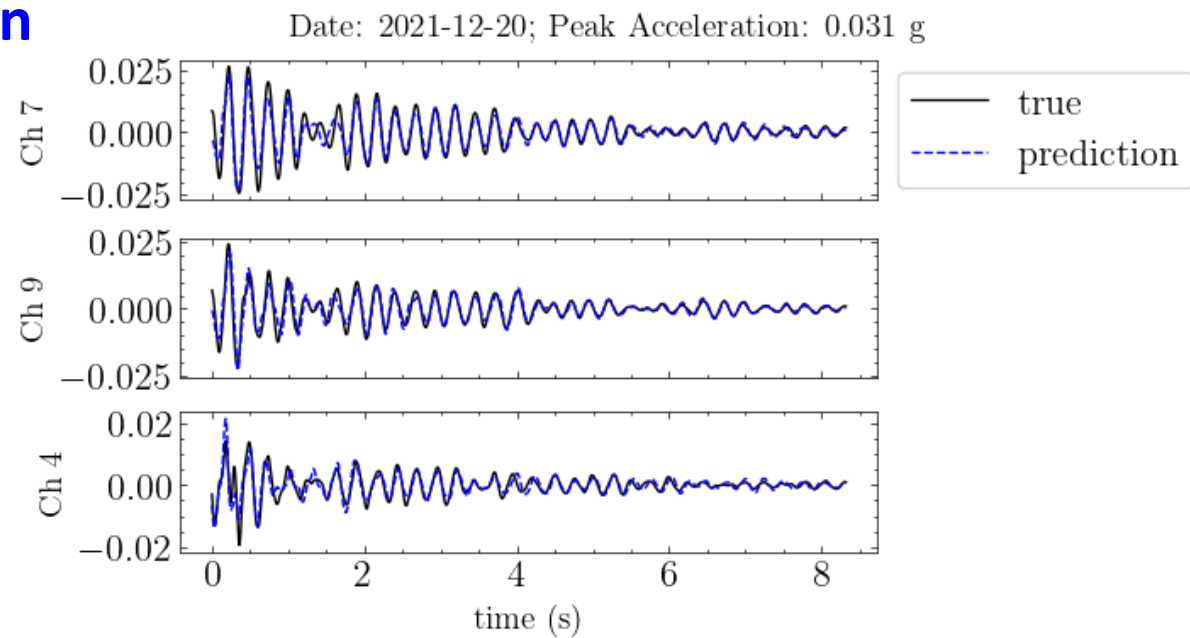




spectral shift



## train



## test

