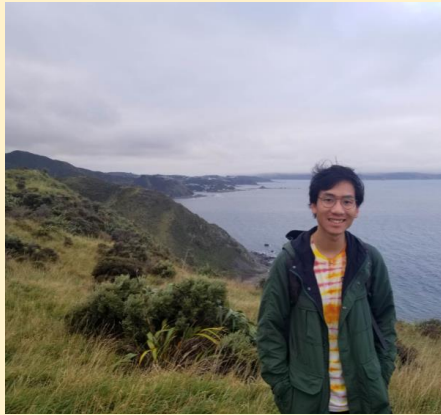
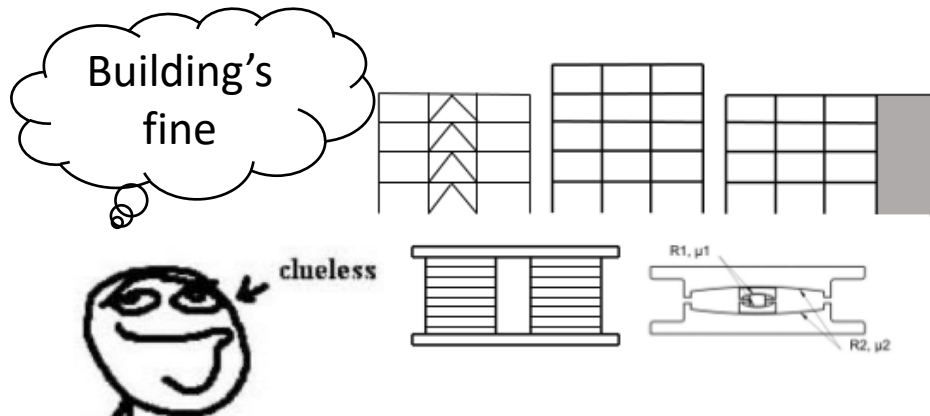


Me

- 5th year Ph.D
- Hometown: Houston, TX
- Interests: Indie games and indie music

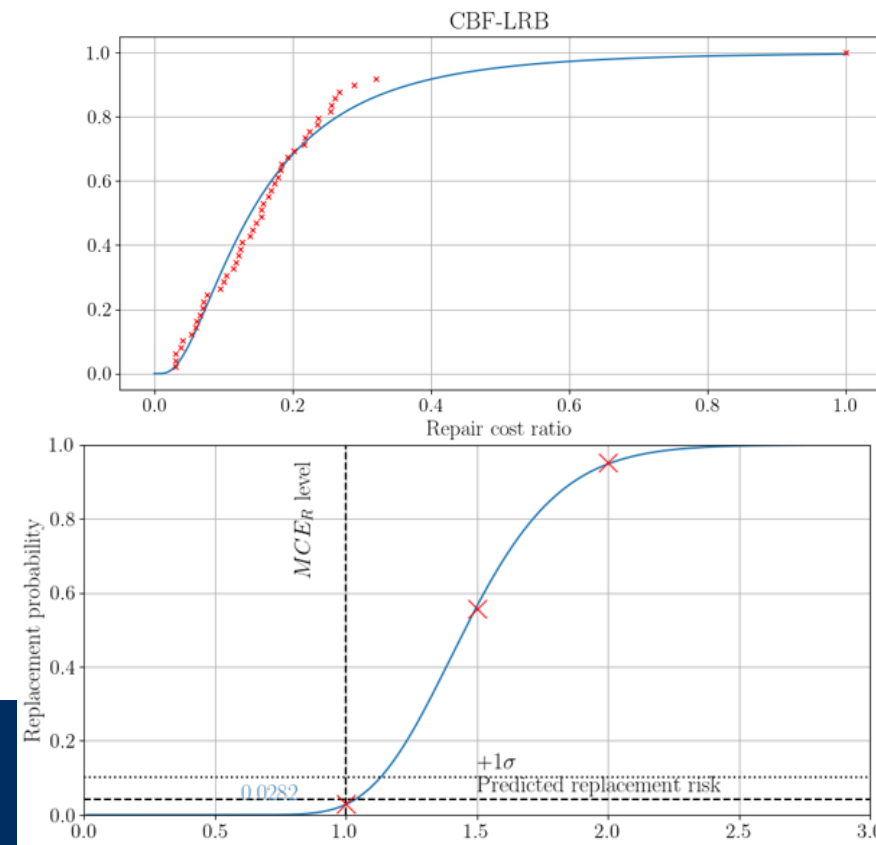


<https://hgp297.github.io/>

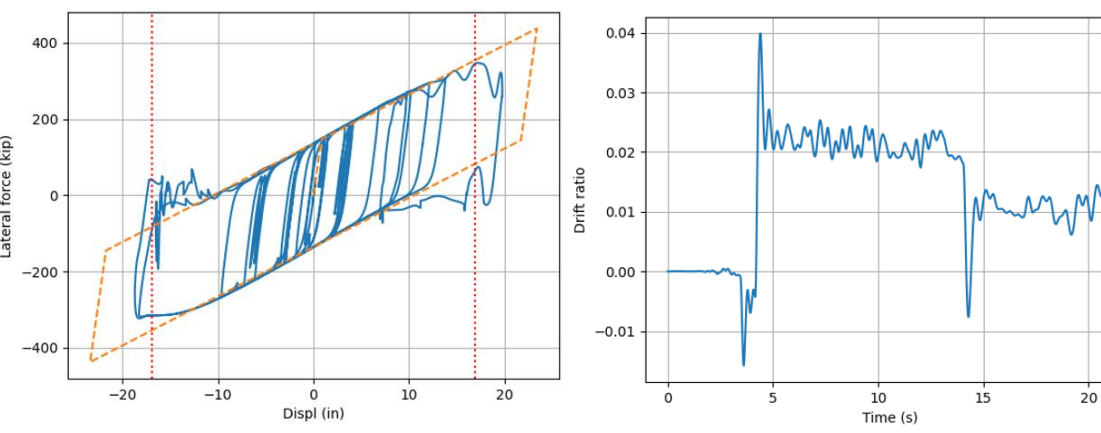
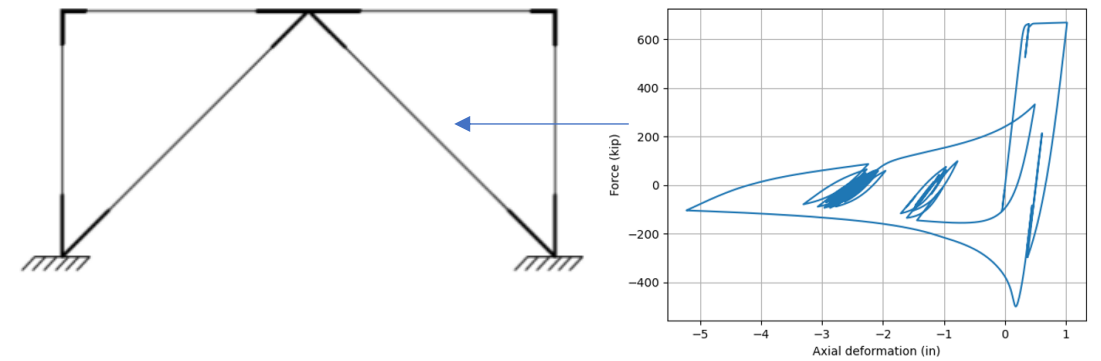
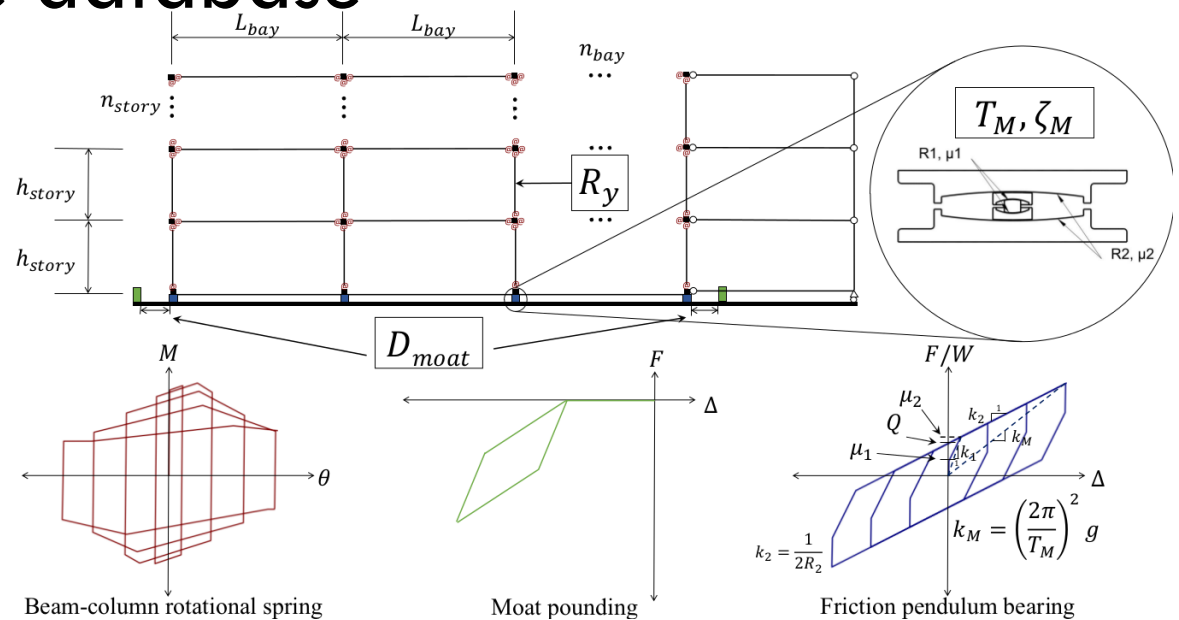


My project

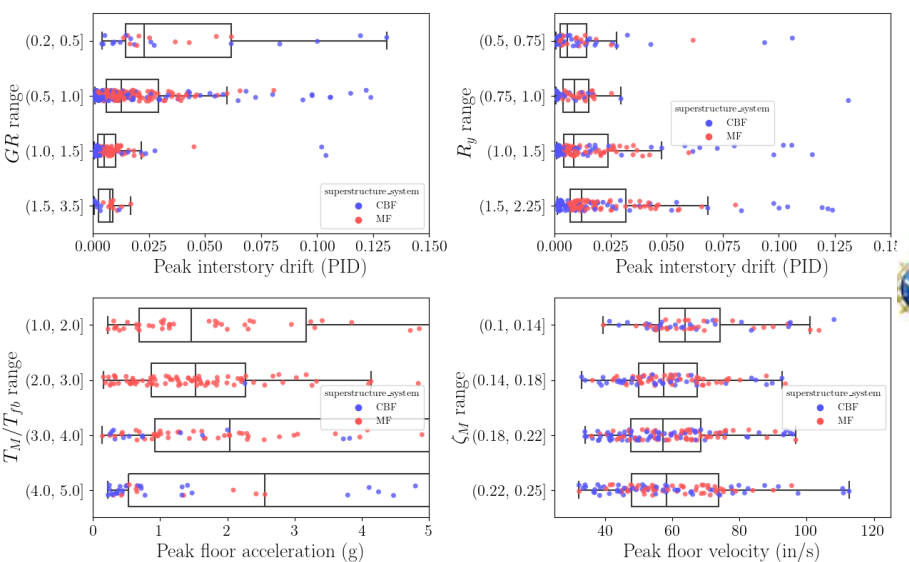
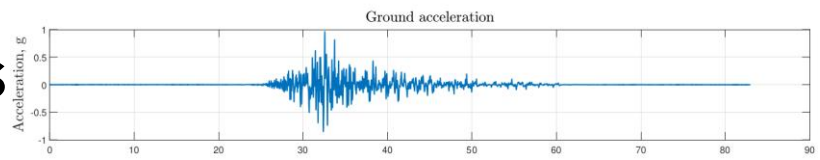
- Advisor: Tracy Becker
- Title: Inverse design of isolated structures for targeted performance via machine learning
- Themes: Base isolation, performance-based design, structural modeling and automation, machine learning



The database



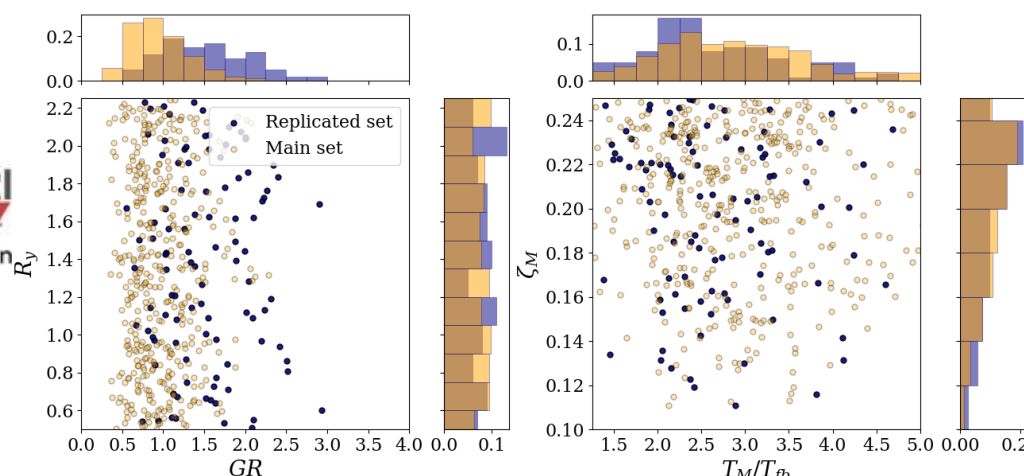
The experiments

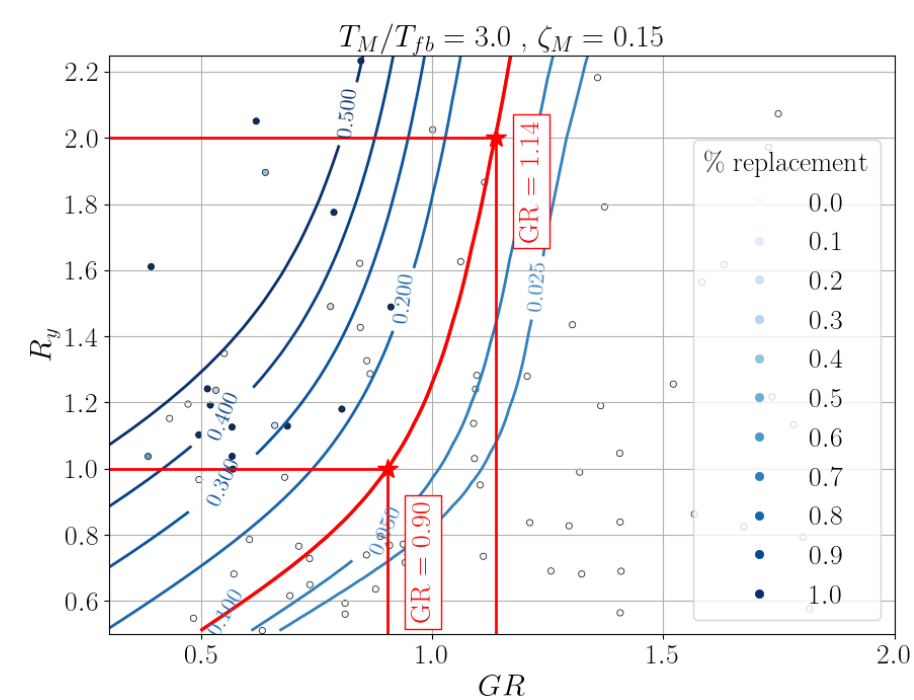


The results

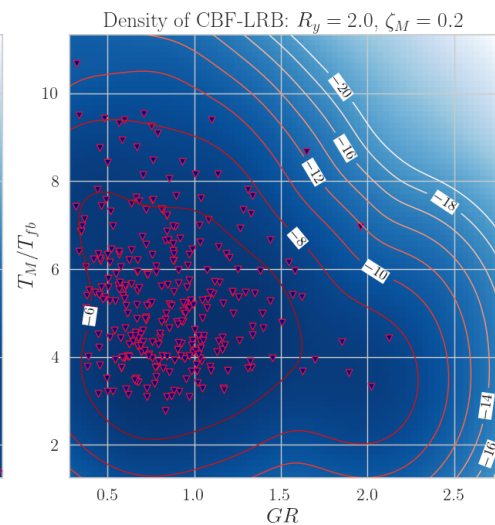
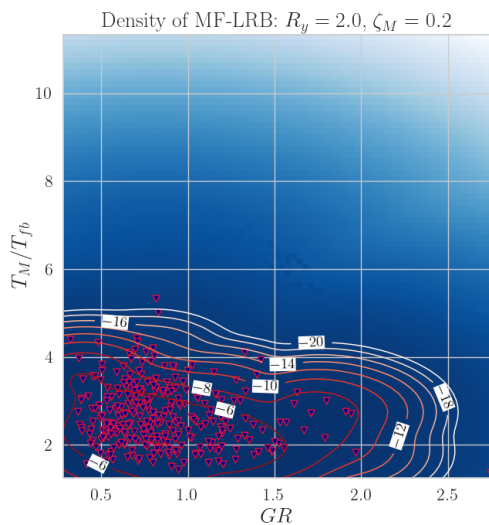
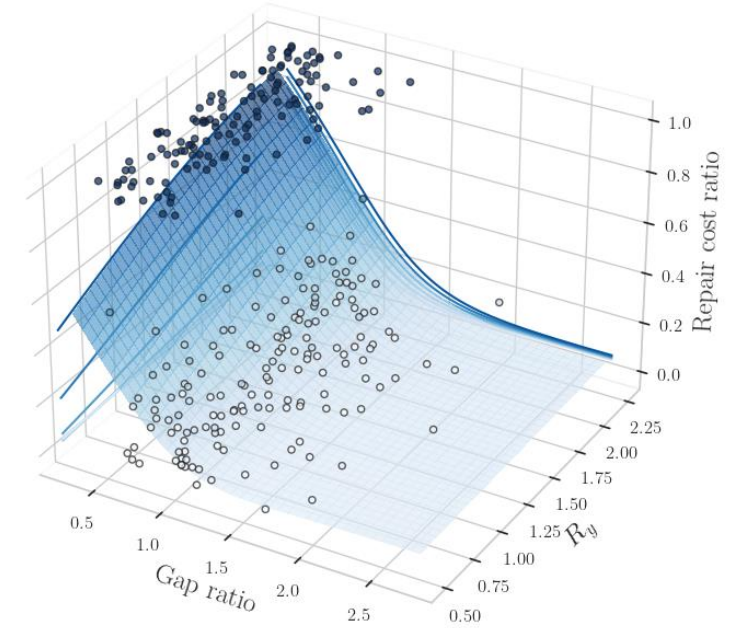
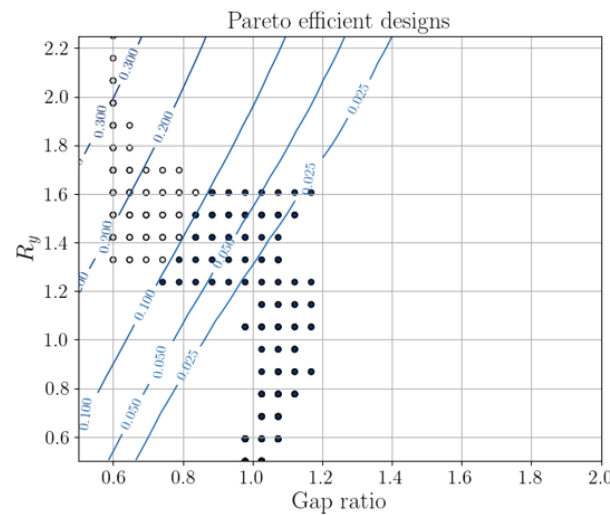


pelicun





- Classical ML predictions
 - Kernel regressions / classifications
- Probabilistic methods
 - Gaussian processes



- Inverse design:
 - Grid optimization
 - Pareto fronts
 - Decision trees?

