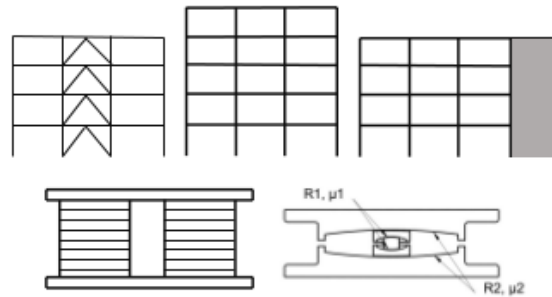
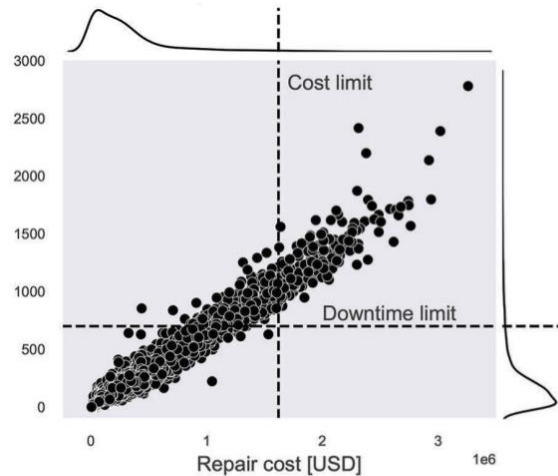


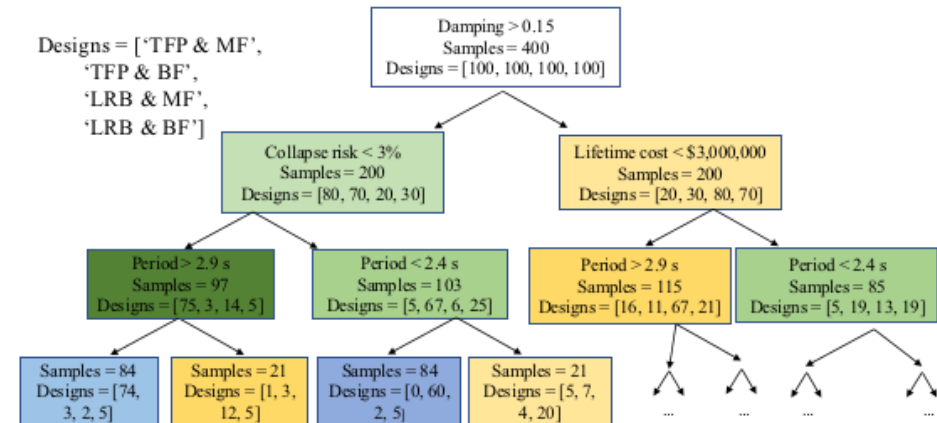
Me

- 4th year Ph.D
- Hometown: Houston, TX
- Interests: Indie games and indie music

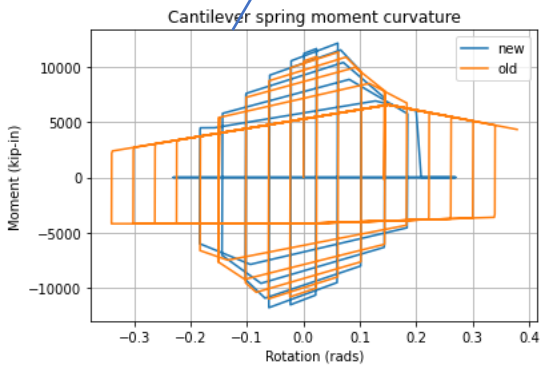
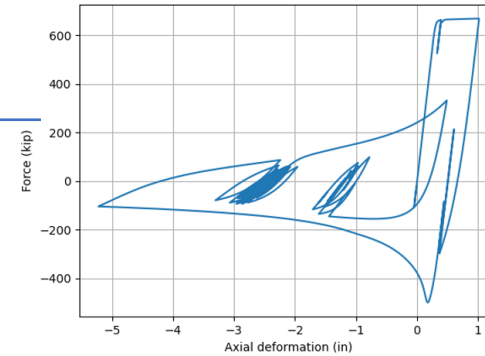
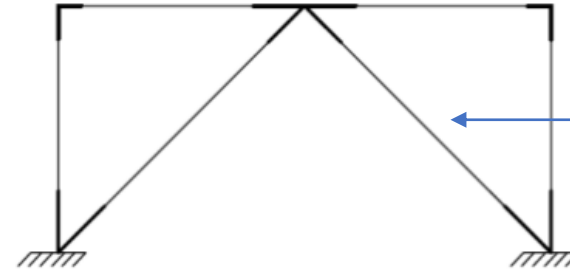
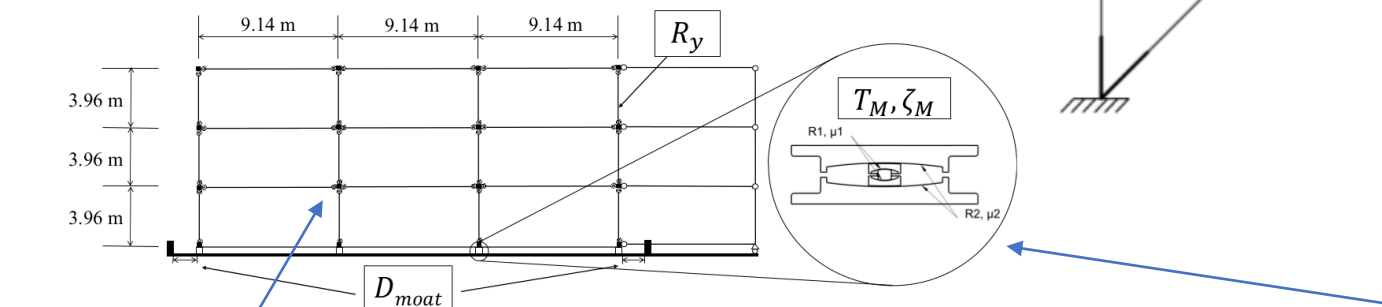


My project

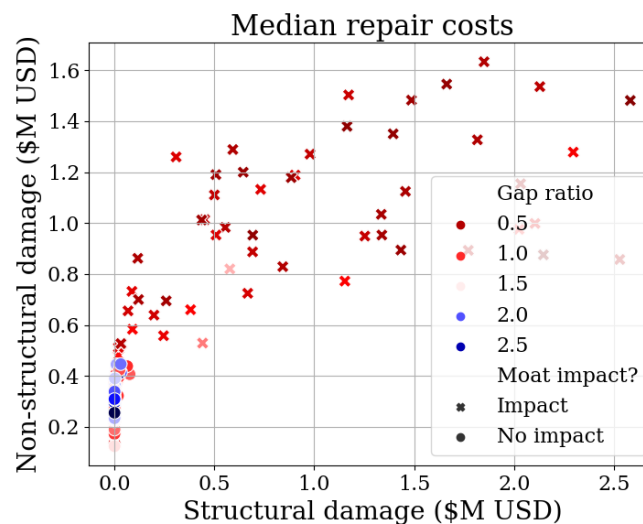
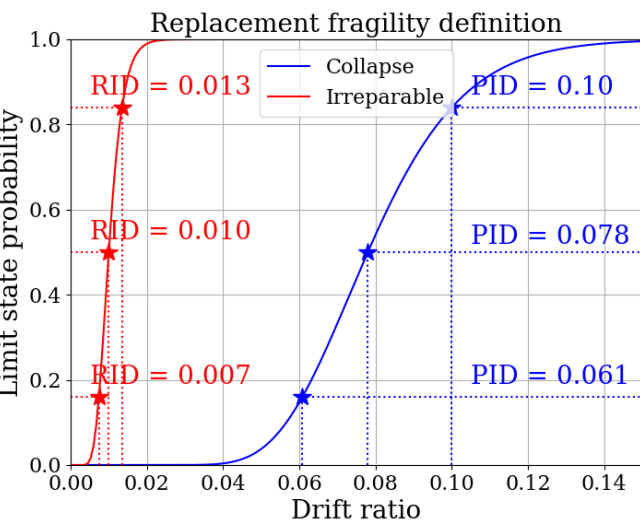
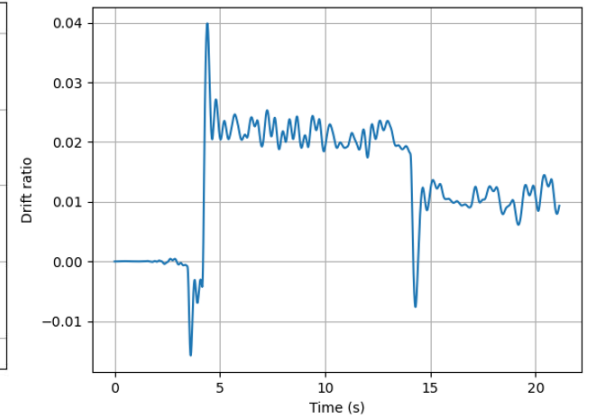
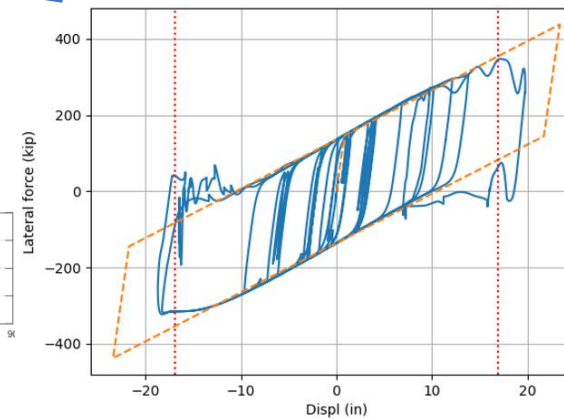
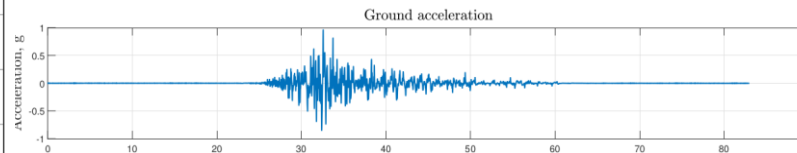
- Advisor: Tracy Becker
- Title: Inverse Design of Isolated Structures for Targeted Performance via Data Models
- Themes: Base isolation, performance-based design, structural modeling and automation, machine learning



The database



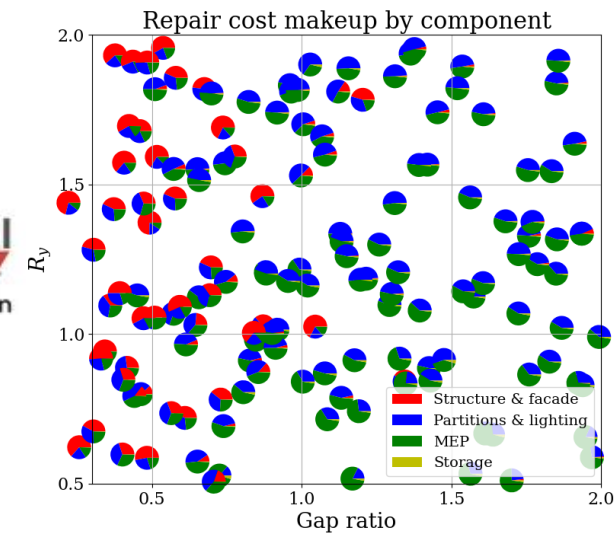
The experiments

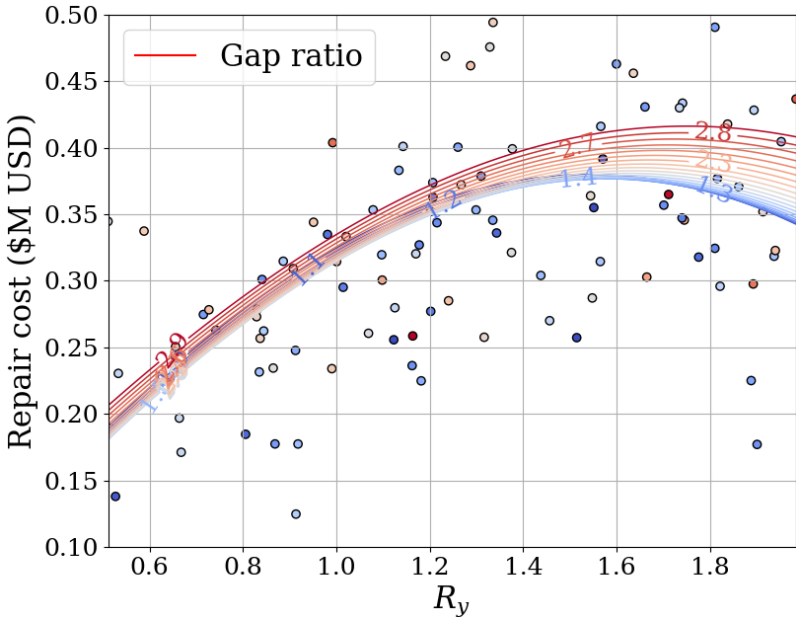


The results

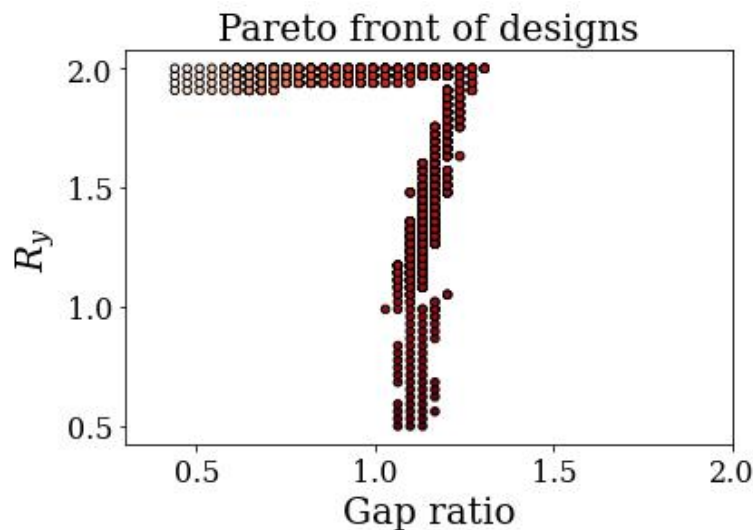
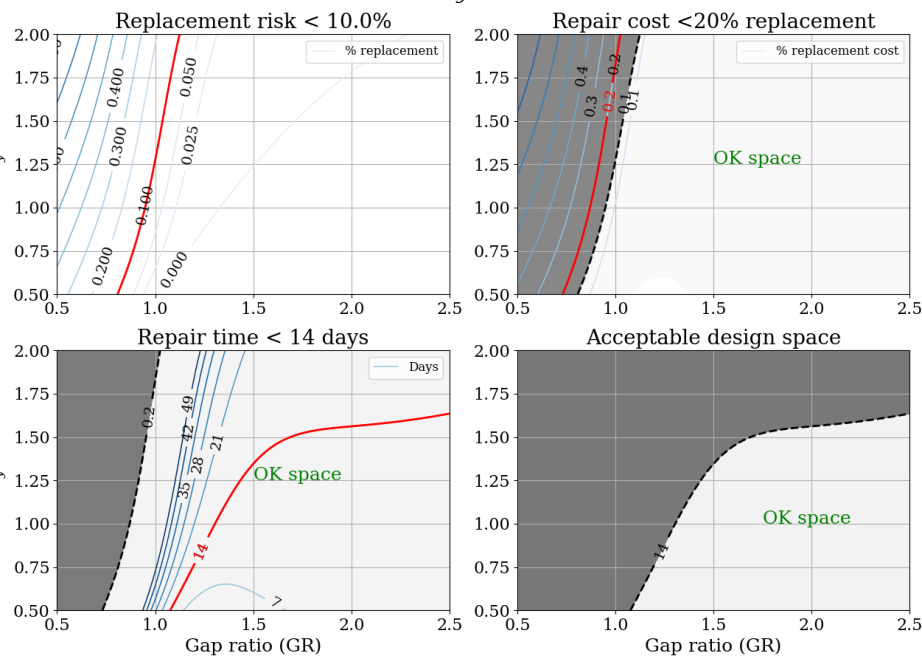
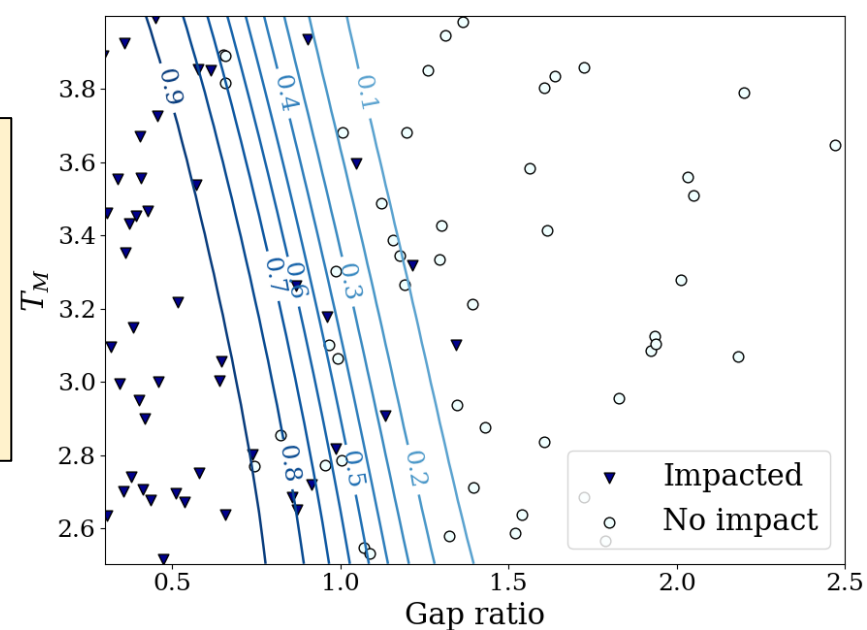


pelicun





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



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

