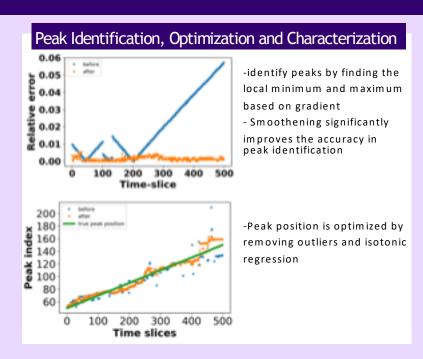
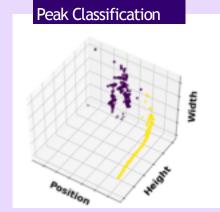
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Motivation

-Data from user input is smoothened using multivariate adaptive regression splines

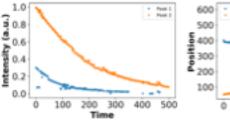


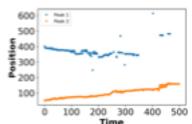


-We classify the peaks using K-Means to distinguish neighboring peaks

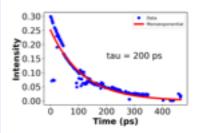
Peak Dynamics

- Users can visualize how peak position, height and width change over time





- We extract kinetic parameters to characterize the dynamics of photoexcited species



Future Directions

- Recover the entire spectrum of individual species with spectral overlap

