

Yale ATLAS / ML Group

PI: Paul Tipton // **Postdoc:** Chase Shimmin

Students: Arianna Garcia, Ema Smith

Research Interests:

- Learned decorrelation methods / multi-objective optimization
- NN training methods for robustness to systematics / quantifiable uncertainty measures
- Equivariance in deep networks for targeting physics observables / data-efficient training

Application Areas (@ATLAS):

- Tau and b-jet reconstruction
- Pareto-efficient boosted jet tagging

