

gollum

(Shankar et al. 2024)

blase

(Gully-Santiago & Morley 2022)

scipy

(Virtanen et al. 2020)

blase

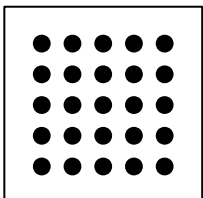
(this work)

scikit

(Head et al. 2018)

Download PHOENIX
subset from FTP server

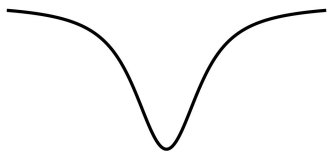
Preprocess PHOENIX
subset



Convert spectral basis
from flux to Voigt
profiles

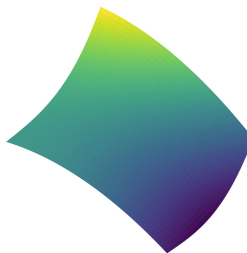
Tune Voigt profiles with
ML

Write state dictionary
to disk

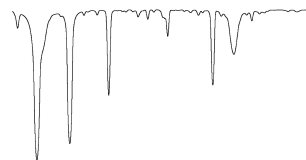


Create interpolator
objects for each line

Evaluate interpolator
objects, either singly or
as a batch



Convert interpolated
Voigt profiles back to
flux basis



Create surrogate model
from randomly
sampled points

Minimize RMS loss with
guided evaluations

Return inference

