



News

October 2012: astroML 0.1 has been released! Get the source on [Github](#)

Our Introduction to astroML paper received the CIDU 2012 best paper award.

Links

[astroML Mailing List](#)
[GitHub Issue Tracker](#)

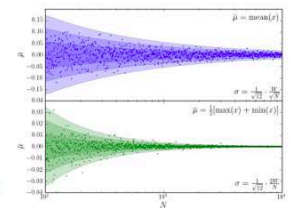
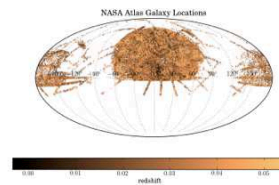
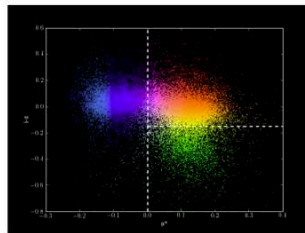
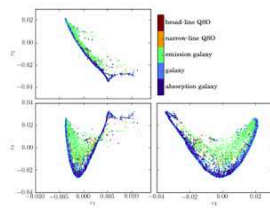
Videos

[Scipy 2012 \(15 minute talk\)](#)

Citing

If you use the software, please consider citing [astroML](#).

AstroML: Machine Learning and Data Mining for Astronomy

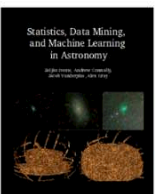


AstroML is a Python module for machine learning and data mining built on [numpy](#), [scipy](#), [scikit-learn](#), and [matplotlib](#), and distributed under the 3-clause BSD license. It contains a growing library of statistical and machine learning routines for analyzing astronomical data in python, loaders for several open astronomical datasets, and a large suite of examples of analyzing and visualizing astronomical datasets.

Downloads

- Released Versions: [Python Package Index](#)
- Bleeding-edge Source: [github](#)

The goal of astroML is to provide a community repository for fast Python implementations of common tools and routines used for statistical data analysis in astronomy and astrophysics, to provide a uniform and easy-to-use interface to freely available astronomical datasets. We hope this package will be useful to researchers and students of astronomy. The astroML project was started in 2012 to accompany the book **Statistics, Data Mining, and Machine Learning in Astronomy** by Zeljko Ivezic, Andrew Connolly, Jacob VanderPlas, and Alex Gray, to be published in late 2013. The table of contents is available here: [here \(pdf\)](#).



User Guide

1. Introduction

1.1. Philosophy