

Everything is better with friends

Using SAS in Python applications with SASPy and open-source tools

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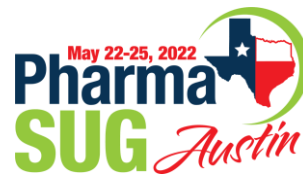
University of California
Office of the President
Oakland, CA

Matthew T. Slaughter

Kaiser Permanente
Center for Health Research
Portland, OR

Getting Started Hands-on Training • May 23, 2022 • 3:30 p.m.

Training files: <https://github.com/saspy-bffs>



Presenting: The Best of Both Worlds...



Strengths

Data Analysis
Data Management
Statistics

Strengths

Scripting
Web Dev
Open Source

SAS + Python

A Python
interface for
the SAS System

Code Vignettes

Theme: Comparing Common Data Science Tasks in SAS and Python

Section 1. Python basics

- Modules and Imports
- Syntax and Object Types (`str`, `list`, `dict`, and `DataFrame`)

Section 2. Data round trip

- Establish SAS Sessions
- Manipulate SAS datasets

Section 3. `sasdata` method

- Interact directly with SAS Sessions and datasets
- Use Python to learn SAS

Section 4. `SASPy` scripting

- Use Python to imitate the SAS Macro Facility

Python in Google Colab + SAS ODA = BFFs

