# Gil Forsyth

Contact
Information

E-mail: gil@forsyth.dev

#### Summary

Scientific software developer with a background in high-performance computing and computational performance. Software engineer, data scientist, open source maintainer and contributor, fond of numerical linear algebra. Experienced public speaker. Pythonista.

### Professional Experience

#### Voltron Data

$\triangleright$	Senior Staff Software Engineer	2024 - Present
$\triangleright$	Staff Software Engineer	2021 - 2024

## Capital One

> Senior Manager, Machine Learning Engineer	2021
➤ Manager, Software Engineer	2019 - 2021
> Principal Associate, Data Scientist	2017 - 2019

#### SKILLS

Python, SQL, Substrait, machine learning, distributed systems, performance and optimization, packaging, version lifecycle management

## OPEN SOURCE PROJECTS

### **Ibis Project** (https://ibis-project.org)

Steering Council Member
Committer
September 2023 - Present
March 2022 - September 2023

# Substrait (https://substrait.io)

> Committer November 2022 - Present

# $\chi$ **onsh** (https://xon.sh)

Core MaintainerMaintainer

March 2018 - Present January 2015 - March 2018

# CONFERENCE PRESENTATIONS AND SERVICE

### Scientific Computing with Python (SciPy) Conference

➤ Program Chair 2017 - 2020

#### **Tutorials**

- ➤ Introduction to Ibis: blazing fast analytics with DuckDB, Polars, Snowflake, and more, from the comfort of your Python repl @ PyCon 2024
- ➤ Ibis: A fast, flexible, and portable tool for data analytics @ PyData 2023
- ➤ Ibis: A fast, flexible, and portable tool for data analytics @ EuroSciPy 2023
- > Xonsh: Bringing Python Data Science to your Shell @ SciPy 2019
- ➤ Python Performance for Poets @ PyCon 2019
- ➤ Numba: Tell Those C++ Bullies to Get Lost @ SciPy 2016, SciPy 2017

#### Presentations

- ➤ Ibis: Because SQL is everywhere and so is Python @ SciPy 2024
- > Ibis: Because SQL is everywhere but you don't want to use it @ PyData Seattle 2023
- ➤ Ibis: Expressive Analytics in Python at any scale @ PyData NYC 2022
- ➤ Universal Scalable Custom Machine Learning Estimators @ GTC 2020
- > Python, GPUs and Boundary Elements for Biomolecular Electrostatics @ SciPy 2017

#### EDUCATION

### George Washington University, Washington, DC

Performed three years of studies in computational fluid dynamics in pursuit of PhD May 2017

### Boston University, Boston, MA

M.S., Mechanical Engineering

May 2014

# Oberlin College, Oberlin, OH

B.A., History, East Asian Studies, Religion

May 2006

### Publications

- ➤ Barba, Lorena, and Gilbert Forsyth. CFD Python: the 12 steps to Navier-Stokes equations., Journal of Open Source Education 2.16 (2018): 21.
- ➤ Clementi, Natalia C., et al. PyGBe-LSPR: Python and GPU Boundary-integral solver for electrostatics. Journal of Open Source Software 2.19 (2017): 306.
- ➤ Cooper, Christopher D., et al. PyGBe: Python, GPUs and Boundary elements for biomolecular electrostatics. Journal of Open Source Software 1.4 (2016): 43.