## Gil Forsyth

## CONTACT Information

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#### 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.

I spend most of my time working on Ibis (https://ibis-project.org/)

#### Professional Experience

#### Voltron Data

➤ Senior Sta	aff Software Engineer	2024 - Present
➤ Staff Softw	ware Engineer	2021 - 2024

### Capital One

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

### 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

### CONFERENCE PRESENTATIONS AND SERVICE

## Scientific Computing with Python (SciPy) Conference

> Program Chair

2017 - 2020

#### **Tutorials**

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

#### **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.

# OPEN SOURCE PROJECTS

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

> Steering Council Member

 $\triangleright$  Committer

September 2023 - Present March 2022 - September 2023

Substrait (https://substrait.io)

➤ Committer

November 2022 - Present

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

> Core Maintainer

➤ Maintainer

March 2018 - Present January 2015 - March 2018