

# Gil Forsyth

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## CONTACT INFORMATION

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*GitHub:* [gforsyth](https://github.com/gforsyth)

## SUMMARY

Software developer with a background in high-performance computing and computational performance. Software engineer, data scientist, experienced public speaker. Open source maintainer, contributor, and organizer. Pythonista.

## PROFESSIONAL EXPERIENCE

### **Voltron Data**

- Senior Staff Software Engineer
- Staff Software Engineer

**2024 -  
2021 - 2024**

### **Capital One**

- Senior Manager, Machine Learning Engineer
- Manager, Software Engineer
- Principal Associate, Data Scientist

**2021  
2019 - 2021  
2017 - 2019**

## SKILLS

Python: broad experience with the PyData stack with deep knowledge of tabular-data-oriented execution engines.

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

## OPEN SOURCE PROJECTS

### **Maintainership**

- Ibis Project, Steering Council Member
- Substrait, Committer
- substrait-python, Maintainer
- xonsh, Maintainer
- Assorted conda-forge feedstocks, Maintainer

### **Contributor**

- Contributed to Dask, DuckDB, sqlglot, IPython, scikit-learn, and others

## CONFERENCE PRESENTATIONS AND SERVICE

### **Scientific Computing with Python (SciPy) Conference**

- Program Chair

**2017 - 2020, 2025 -**

### **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.