**Lawrence Gray, Ph.D.**

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**SUMMARY**

Open-source community leader and former Chair of NumFocus, stewarding major projects like Jupyter, Scikit-learn, and NumPy, with keynote speaking engagements at StrangeLoop and PyData NYC. AI Leader and Ph.D with proven success delivering $6M+ in enterprise ML solutions while driving technological innovation across industry and academia. Track record of providing technical direction to 15+ engineers, transforming operations (4x productivity gains), and championing open-source initiatives. Serving as Adjunct Professor and Program Director at Georgetown University, bridging the gap between cutting-edge AI development and practical education.

**OPEN-SOURCE AND COMMUNITY LEADERSHIP**

**Chair - Board of Directors, NumFocus 2022 - 2025**

* Led strategic initiatives impacting 50+ major open source projects in scientific computing

**Chair - Affiliated Projects Committee, NumFocus 2021-2022**

* Reviewed applications from 50+ open-source projects seeking affiliate status

**Member - Small Development Grants, Numfocus 2019 -2021**

* **Reviewed and awarded $150,000+ in grants to open-source projects**

**Core Contributor/Maintainer, Yellowbrick 2018 - Present** [**https://github.com/districtdatalabs/yellowbrick**](https://github.com/districtdatalabs/yellowbrick)

* Led development of Python ML Visualization Library supporting 386,000 monthly PyPi downloads
* Contributed core features from v0.6 to v1.5 releases ( 7 years)
* Reviewed 200+ Technical questions on StackOverflow
* Authored, reviewed, resolved, and merged 125+ PRs and 30+ Issues while maintaining code quality standards
* Authored comprehensive tutorials and documentation pages [**https://www.scikit-yb.org/**](https://www.scikit-yb.org/)
* Grew developer community from 20 to 100+ through mentorship, workshops, and sprints
* Developed governance framework and community guidelines for sustainable project growth

**RECENT AND UPCOMING OPEN-SOURCE TALKS**

* [PyData New York City, 2022](https://nyc2022.pydata.org/cfp/talk/7EH8RM/) [[video](https://youtu.be/CQlQZRWHVcY)]
* [Strange Loop, St. Louis, MO September 2023](https://www.thestrangeloop.com/2023/building-strong-and-sustainable-open-source-projects-lessons-from-an-epic-road-trip.html) **[**[**video**](https://youtu.be/TE84-XFUT2w?si=MkcaC0kiQThD6h5n)**]**
* [**PyData New York City, 2024 - Keynote Speaker**](https://nyc2024.pydata.org/cfp/talk/BEUE3C/) **[**[**video**](https://youtu.be/DKNT_AEmjEw?si=2EQ7fgPuXf-LJQtI)**]**
* [**OSCON March 2025 - Keynote Speaker**](https://ospo.gwu.edu/open-source-conference-gw-oscon)

**SKILLS**

* **Developer Relations:** Community Building, Technical Documentation, Developer Advocacy, Open Source Governance
* **Programming:** Python, Git, CI/CD (GitHub Actions), API Development, Documentation Tools
* **Technical Domain:** Machine Learning, Deep Learning, Natural Language Processing, Data Science
* Software Development: Poetry, mypy, Black, Flask, Testing Frameworks
* **Leadership:** Technical Direction, Cross-functional Team Leadership, Developer Mentorship

**PROFESSIONAL LEADERSHIP**

**Director of Machine Learning Engineering, KUNGFU.AI 2022 - 2025**

* Successfully delivered $6M+ in enterprise ML solutions across 12+ projects while leading team of 15 engineers
* Led development of key AI initiatives including:
  + GenAI system reducing response time from hours to minutes
  + Time series forecasting achieving 20% accuracy improvement
  + NLP solution with 95% accuracy in data harmonization
  + XGBoost model tripling click attribution accuracy
* Strengthened client partnerships with Department of State, Deloitte, DataRobot, and Wendy's
* Served as technical advisor to Johns Hopkins University for medical AI implementation
* Promoted inclusive engineering culture through collaborative development and mentorship

**Head of Data Science, KPMG Spark 2020 - 2022**

* Defined organization-wide data strategy and AI initiatives, increasing data literacy by 10%
* Led development of ML/AI capabilities improving productivity 4-fold across enterprise
* Implemented customer analytics reducing churn by 10% within first 100 days
* Developed automation roadmap and re-engineered processes with cross-functional teams

**Data Scientist, Maxar Technologies 2019 - 2020**

* Developed ML systems for government clients to detect anomalous patterns in flight and maritime data
* Built end-to-end ML pipelines for classification models using Python
* Created automated processes for large-scale data processing and analysis

**Postdoctoral Fellow - Computational Biology, NCBI 2013 - 2019**

* Developed 3D transformation algorithms for biological structures using C++
* Created open-source scientific software integrating computer vision algorithms

**ACADEMIC & EDUCATIONAL LEADERSHIP**

**Program Director - Data Analytics, Georgetown University July 2022 - Present**

* Drive program innovation and growth, serving 300+ students across Data Analytics, Data Science, and GenAI certificates
* Source and recruit faculty while ensuring curriculum stays aligned with industry demands
* Spearhead development of new certificate programs based on emerging technology trends
* Successfully manage and oversee faculty team, maintaining program quality and educational standards

**Adjunct Professor, Georgetown University 2019 - Present**

* Design and teach advanced courses in Data Science, Data Analytics, Data-Driven decision-making, and GenAI
* Develop practical, industry-relevant curriculum incorporating real-world case studies and projects
* Consistently receive high student satisfaction ratings for making complex technical concepts accessible
* Pioneer new teaching methodologies for remote learning environments

**Lecturer, Maryland Institute College of Art 2020 - 2024**

* Taught the Master’s level course Python for Data Analytics and Visualization, which has enabled 100 students
* Created a comprehensive curriculum enabling students with no prior programming experience to successfully complete capstone projects

**EDUCATION**

* Ph.D. in Cellular and Molecular Physiology, Johns Hopkins University, School of Medicine
* Bachelor of Science in Biology and Chemistry, California State University - Fullerton