

Patrick Smyth

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Experience

Space Telescope Science Institute

August 2021 — present

Scientific Infrastructure Consultant

- Develop accessible scientific infrastructure based on Jupyter Notebooks for [Space Telescope Science Institute \(STScI\)](#) as part of the 2022-2023 Astronomy Notebooks for All initiative
- Build web application to host technical curriculum (Python and Flask, Bulma, markdown editor in JS)
- Lead technical training for Space Telescope staff and researchers

Columbia University

January 2019 — August 2021

Research Computing Specialist

- Developed infrastructure for generating and analyzing learner applications using Flask and Pandas
- Consulted with faculty researchers and library colleagues on technical projects and initiatives related to access to data
- Partnered with Columbia's Data Science Institute, X (formerly Google X), and the TensorFlow team on technical trainings
- Led over 85 events related to training in Python, R, Unix, Git, TensorFlow, and scikit-learn

Graduate Center Digital Initiatives

September 2014 — December 2018

Advisor to MA/MS Program in Digital Humanities / Data Vis

- Led development of open technical curriculum used as the foundation for bootcamps at 13+ colleges and universities around the country ([DHRI initiative](#), [view curriculum](#))
- Built web app using public geolocal data that was featured in [PC Magazine](#) and profiled in [Phi Beta Kappa](#) ([NEH Impact Index](#))
- Taught 35+ technical workshops on data science, web development, and Python programming fundamentals
- Significant contributions (or primary grant writer) for successful grants totaling over \$800,000
- Co-developed an NEH-funded cloud tool for data analysis ([DH Box](#))

Technical Skills

Frontend Frameworks:
Bulma, Bootstrap, React
Analytics: Jupyter, NLTK,
NumPy/SciPy, Spacy, Pandas,
scikit-learn
Web Scraping: Scrapy,
BeautifulSoup
Web Frameworks: Flask,
Django
CMS / Static Site Generators:
Jekyll, Hugo, WordPress,
Drupal
Databases: MySQL, SQLite,
PostgreSQL
Ops: Docker, Unix, Git

Education

PhD, Digital Humanities, 2021
Graduate Center, CUNY

2021 Faculty Award for Most
Distinguished Dissertation
Graduate Center, CUNY

Milton F. Steinhardt
Memorial Fellowship Award
for Best Prospectus

Certificate, Interactive
Technology & Pedagogy
Graduate Center, CUNY

Certified, Software Carpentry

Fulbright Fellow
Berlin, 2009-2010

Press

"[Behind the Key — Patrick Smyth](#)," in Phi Beta Kappa, 2017

"[Trump Budget Slashes NEH Funding: Why You Should Care](#),"
PC Magazine, 2017

[View Full CV](#)

[View GitHub](#)

