# Cultivating a Data Science Learning Community

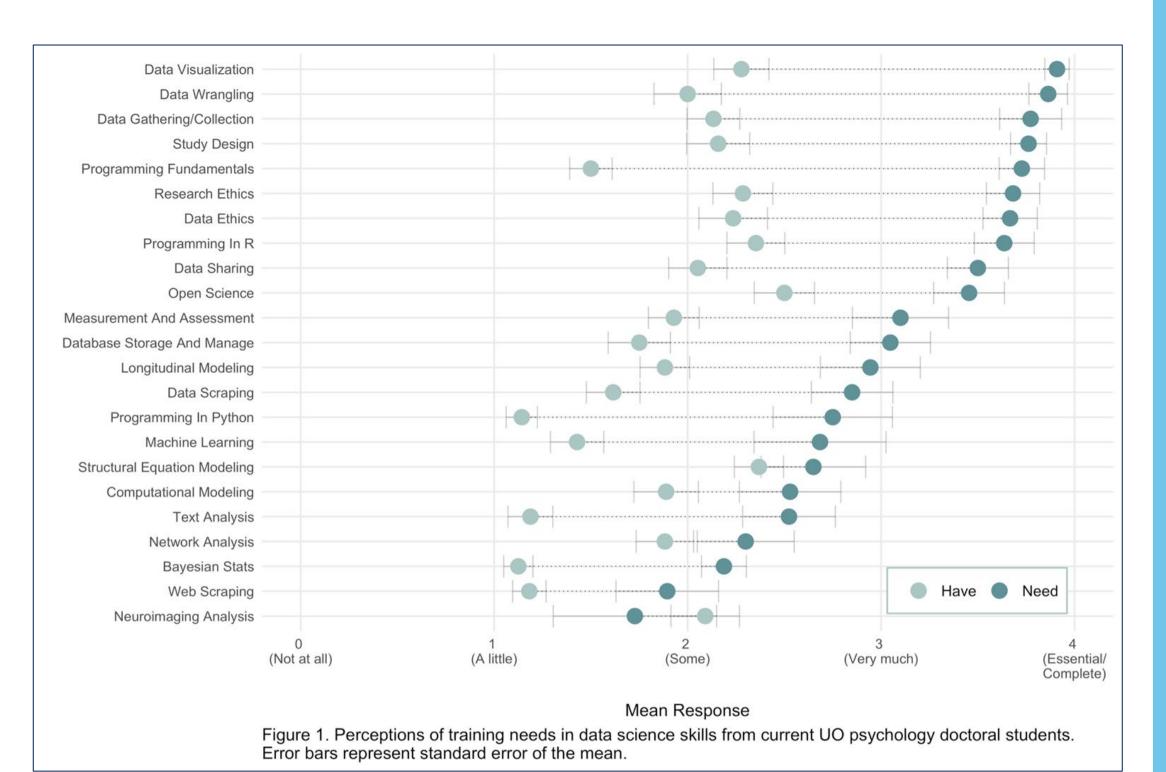
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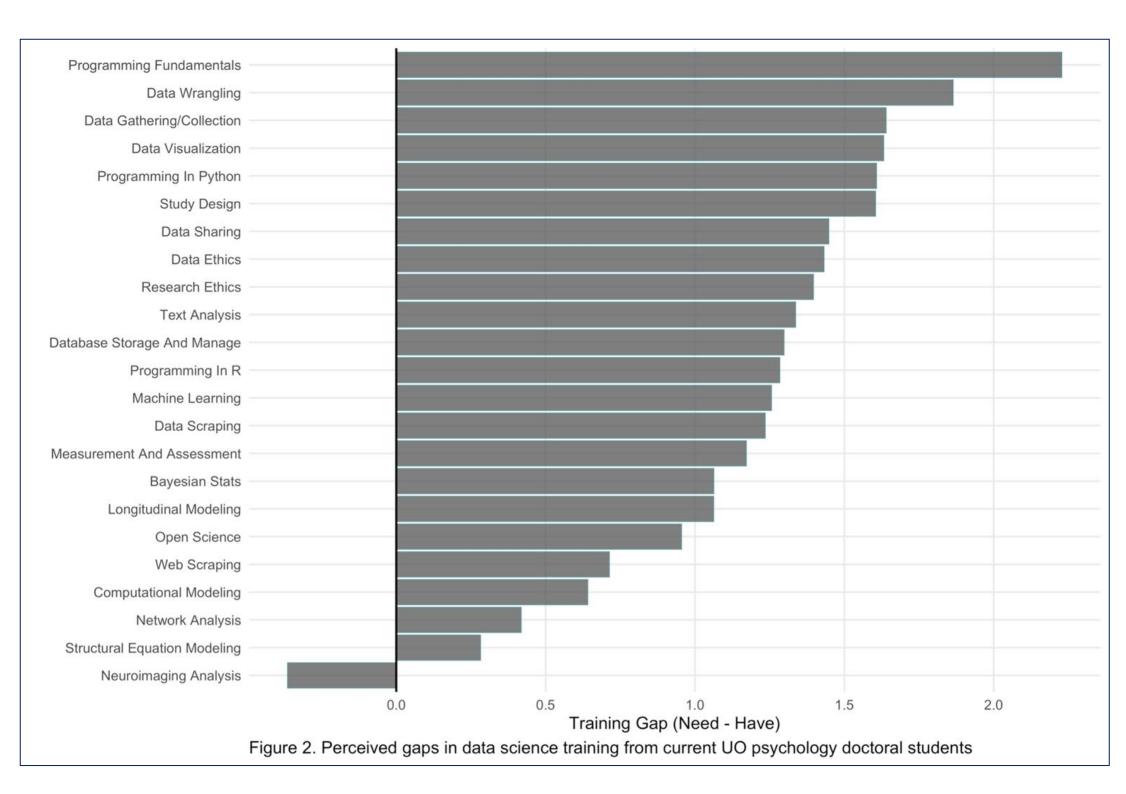
#### Motivation

- There is a growing demand from faculty, postdocs, students, and staff, for informal data science training outside of disciplinary curricula
- Demand for data science training has outpaced current capacity (both formal and informal)

#### Context

- Research and teaching across the disciplines is increasingly data and computationally intensive
- While the data and computational needs in the humanities, social sciences, natural sciences, and health sciences might differ, they all need basic data skills





University of Pittsburgh

Cultivate a community of practice and learning around data science. Expand informal data science training to meet the growing demand for data science expertise at the University of Pittsburgh.





#### **Project Description**

- Leverage existing data science expertise at Pitt (gather, update, and create new informal open-access instructional materials)
- Scale up instructional capacity (with new instructors and workshop design)
- Feature the libraries as a hub to create a diverse and inclusive data science learning community.

## **Project Deliverables**

- Environmental scan and gap analysis of existing informal education opportunities
- Small grants for the development of informal data science training materials
- Self-guided workshop materials for personalized, independent learning
- Instructor training materials (i.e. train the trainers) for scaling data science education
- Expanded data science workshop offerings in the Libraries and School of Computing and Information
- Online space for community of practice with code of conduct and guidelines

### **Potential Impact**

- Expand the computational expertise and capacity of Pitt's researchers and educators
- Create a community of practice ready to take full advantage of computational infrastructure
- Foster interdisciplinary and crosscommunity collaboration in research and teaching

# References and/or Acknowledgements

Image Credits: Brendan Cullen Data
 Science Training in Psychology.
 https://bcullen.rbind.io/post/2020-03-08-data-science-training-needs-in-grad-school/