MOVING RESEARCH >> FORWARD

The University Libraries data services team helps researchers ensure that their research products, including data, are high quality and preserved so that they can be re-used to fuel innovation and discovery over time, distance, and discipline.

>> The Team

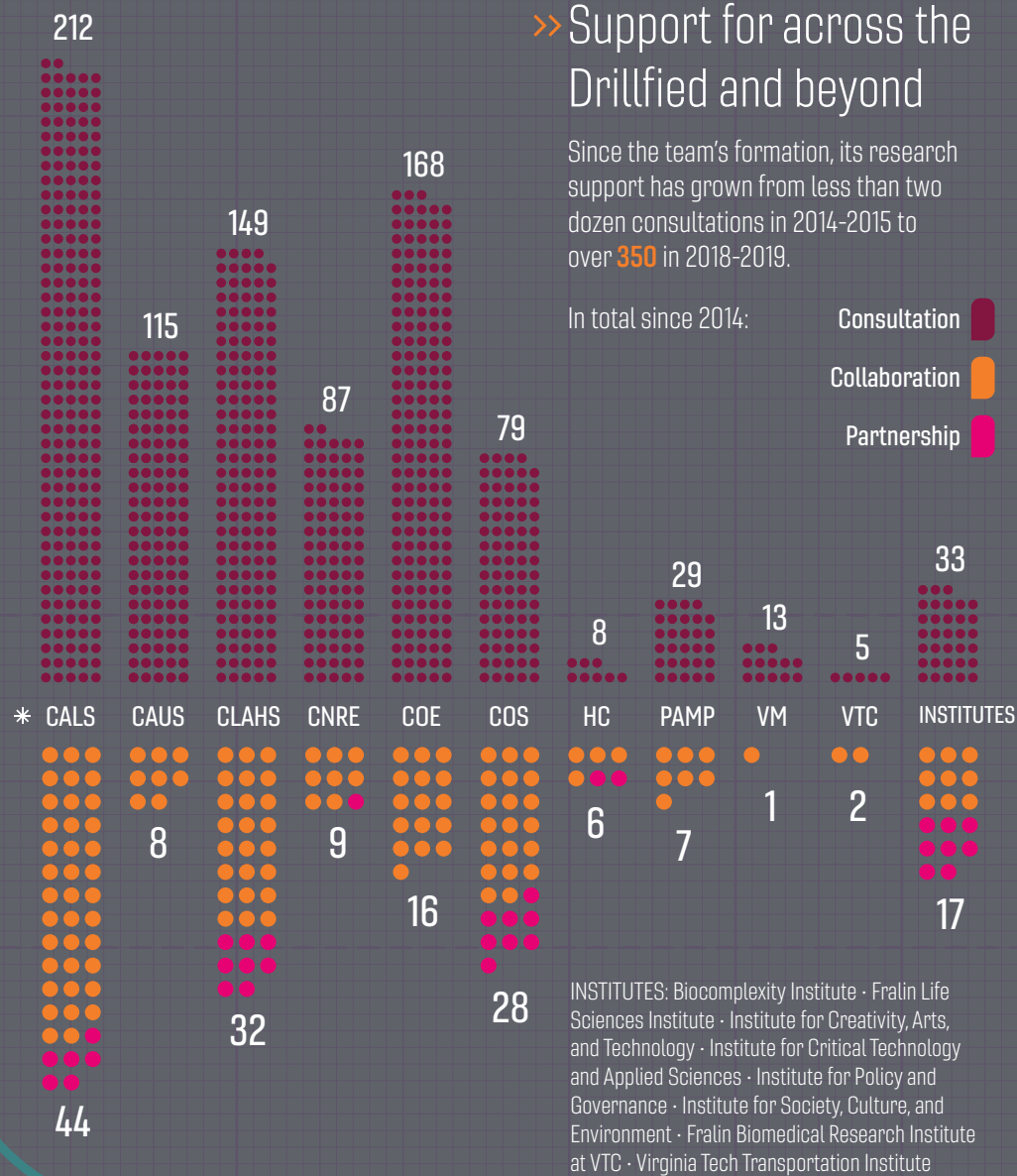**19** experts with diverse data expertise in:

- Curation and management
- Open sharing
- Graphic design and visualization
- GIS
- Analytics
- Informatics
- Metadata

"Libraries are all about managing information and keeping it safe for the future — and that's exactly what we're doing with research data! Our work ensures that research data generated today continue to have a high value to researchers in the future for the benefit of society.

Andi Ogier
Director, University Libraries Data Services

Photo: Data Services Team members Shane Coleman (left), Jonathan Petters (center), Andi Ogier (right). Photo by Liz McVoy

>> Resources for every stage of the research journey

Design workshops, guest lectures, and teaching consultations

Plan data management plans for grants, repository selection, sensitive data consultations, and data collection instrument design

Collect data collection, computational and informatics tools, big data, and qualitative data expertise

Analyze analytic software access and assistance, specialized data analytic techniques

Publish visualization creation, interactive dashboards, design editing, and advice

Archive Virginia Tech data repository, disciplinary or government repository deposits, and metadata creation

Reuse finding secondary data for research, locating datasets for teaching, providing subscription data collections, cleaning and restructuring data, and advising on systematic reviews and meta-analysis

>> Support for across the Drillfied and beyond

Since the team's formation, its research support has grown from less than two dozen consultations in 2014-2015 to over **350** in 2018-2019.

In total since 2014:

- Consultation
- Collaboration
- Partnership

College	212	115	149	87	168	79	8	29	13	5	33
	* CALS	CAUS	CLAHS	CNRE	COE	COS	HC	PAMP	VM	VTC	INSTITUTES
Collaboration	44	8	32	9	16	28	6	7	1	2	17

INSTITUTES: Biocomplexity Institute · Fralin Life Sciences Institute · Institute for Creativity, Arts, and Technology · Institute for Critical Technology and Applied Sciences · Institute for Policy and Governance · Institute for Society, Culture, and Environment · Fralin Biomedical Research Institute at VTC · Virginia Tech Transportation Institute

>> Outcomes

The greatest benefit: University Libraries' data experts help researchers make their data and other research products valuable to future researchers.

Faculty 45%
Grad. Student 34%
Undergrad. Student 10%
Staff 7%
Community 4%

Data Support Across the Virginia Tech Community

Support activities have included and led to:

- **77** Special tools
- **47** Publications
- **43** Grants
- **26** Co-PIs
- **62** Data extractions/generations
- **161** Dataset discoveries
- **112** Data management plans
- **242** Visualizations

96 Workshops and trainings since 2018, including:

Demystifying Machine Learning
A beginner-friendly workshop aimed at teaching the basics of what machine learning is, what it can and can't do, and when to consider using it.

Software Carpentry - Bash, Git, and Programming with R and Python
Software Carpentry aims to help researchers get their work done in less time and with less pain by teaching them basic research computing skills.

Adobe After Effects: Visualization Design and Animation
An introduction to the principles and techniques of creating and animating stunning data visualizations inside of Adobe After Effects.
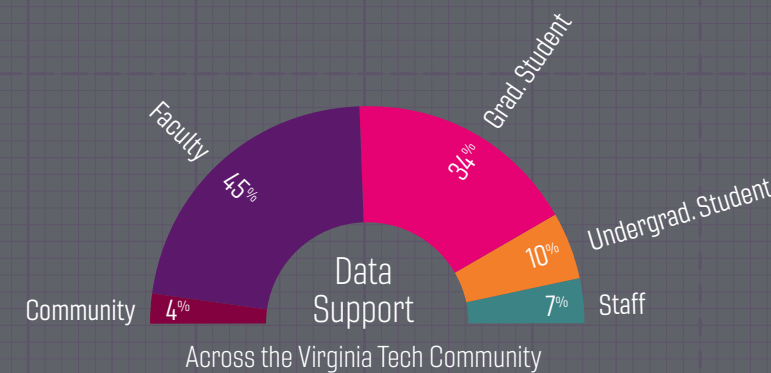
Piloting a Community of Student Data Consultants that Supports and Enhances Research Data Services
A presentation at the International Digital Curation Conference on the training and management model used in the University Libraries' DataBridge.

★ Winner of best paper at IDCC 2020

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* College Agriculture and Life Sciences, College of Architecture and Urban Studies, College of Liberal Arts and Human Sciences, College of Natural Resources and Environment, College of Engineering, College of Science, Honors College, Pamplin College of Business, Virginia-Maryland College of Veterinary Medicine, Virginia Tech Carilion

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