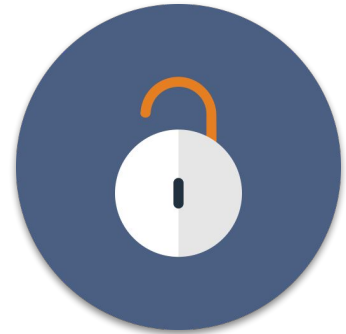
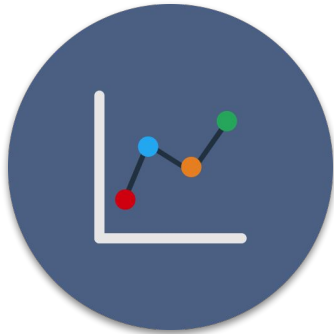


# Building a Library Carpentries Consortium

NAHSL October 28-30, 2018 | Manchester, NH

Kate Nyhan, Yale University, Cushing/Whitney Medical Library (@KDNyhan)  
Julie Goldman, Harvard University, Countway Medical Library (@jgold2)  
on behalf of NESCLiC (@thecarpentries)

# How can libraries remain strong in an ever-changing landscape of new software and research skills?





Get involved in “The Carpentries” by teaching software code and improving researchers’ data toolkits! The Carpentries can serve as a core programmatic element for libraries to invest in.







**76**  
Member  
Organisations

**38K**  
Learners  
Reached

**1.6K**  
Trained  
Instructors

**1.7K**  
Workshops  
Run

**7**  
Continents

**46**  
Countries

The Carpentries 2018 Annual Report

<https://carpentries.org/files/assessment/TheCarpentries2018AnnualReport.pdf>

# Scientific Computing and the Carpentries

Best practices for people “already doing significant amounts of computation in their research”

Wilson G, Aruliah DA, Brown CT, Chue Hong NP, Davis M, Guy RT, et al. (2014) Best Practices for Scientific Computing. *PLoS Biol* 12(1): e1001745.

<https://doi.org/10.1371/journal.pbio.1001745>

*“Our 24 recommendations are a beginning, not an end.”*

Good-enough practices for everyone else:

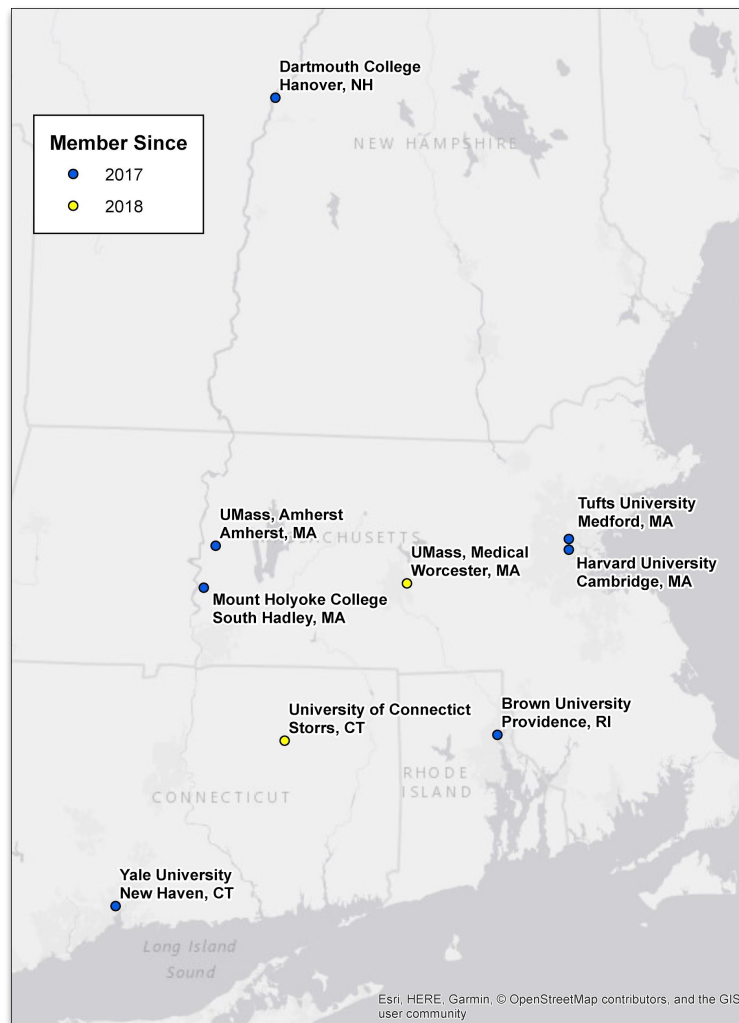
- data management
- programming
- collaborating with colleagues
- organizing projects
- tracking work
- writing manuscripts

Wilson G, Bryan J, Cranston K, Kitces J, Nederbragt L, Teal TK (2017) Good enough practices in scientific computing. *PLoS Comput Biol* 13(6): e1005510.

<https://doi.org/10.1371/journal.pcbi.1005510>

# The New England Software Carpentry Library Consortium

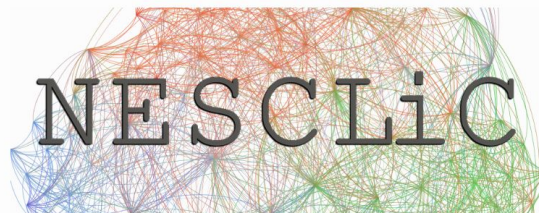
Institution	Number of Participants Total (2017/2018)
Brown University	4 (2/2)
Dartmouth College	4 (2/2)
Harvard University	3 (2/1)
Mount Holyoke College	2 (2/0)
Tufts University	5 (3/2)
University of Connecticut	1 (0/1)
University of Massachusetts, Amherst	3 (1/2)
University of Massachusetts, Worcester	2 (0/2)
Yale University	6 (3/3)



[nesclic.github.io/home](https://nesclic.github.io/home)



NEsclic



The **New England Software Carpentry Library Consortium** or **NESCLiC** is an association of academic libraries, joined as a community of practice focused on building data science skills in research computing, and extracting, wrangling, storing, analyzing, and visualizing data. NESCLiC allows member institutions to share in a Gold-level membership with the Carpentries.

### Our Model

NESCLiC member institutions share a Gold-level Carpentries membership, which affords NESCLiC 6 free coordinated workshops, a 50% discount on the cost for additional coordinated workshops, no charge for self-organized workshops, and fifteen instructors trained, per year.

NESCLiC provides the opportunity for members to:

- Develop instructional materials
- Build a network of data fluent researchers and instructors
- Refine skills by participating as instructors at other member institutions

**Financial commitment:** Cost of shared Carpentry membership (\$1000/person) plus training expenses (travel or hosting)

**Time commitment:** (2) – two-day training workshops plus committee work

NESCLiC has established bylaws and members contribute to the consortium by participating in one of several roles:

- Carpentries liaison
- Membership/Recruiting
- Assessment
- Outreach
- Workshop coordination

### Become a Member

Interested in joining NESCLiC?

Email: [nesclic@googlegroups.com](mailto:nesclic@googlegroups.com)



# Membership and Benefits

- Gold Tier Membership - \$15,000 per year
  - 15 people get instructor training
  - 6 workshops with administrative support by the Carpentries

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  - Try out Carpentries membership with less risk

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- Pilot
  - Try out Carpentries membership with less risk
- Community building
  - Across organizational and institutional boundaries
  - Many backgrounds and job titles
  - Teach together - help fill skill gaps
  - Group to ask for help!

# Software Carpentry Instructor Training

- Introduce you to evidence-based best-practices of teaching.
- Teach you how to create a positive environment for learners at your workshops.
- Provide opportunities for you to practice and build your teaching skills.
- Help you become integrated into the Carpentries community.
- Prepare you to use these teaching skills in teaching Carpentries workshops.

1 Welcome to our instructor discussion sessions! These are weekly discussion sessions for instructors and future instructors.  
2 one hour.  
3 • (Looking for another Carpentries etherpad? Check out the pad of pads: <http://pad.software-carpentry.org/pad-of-pads>)  
4 • If you have any questions about the content of this Etherpad, or Instructor Discussion Sessions in General, e-mail karllford.  
5  
6  
7 **Link to connect to video call:** <https://carpentries.zoom.us/my/carpentriesroom3>  
8 Backup (use only if the room3 link above does not work)  
9 <https://carpentries.zoom.us/my/carpentriesroom2>  
10  
11 \*\*\* To join by phone - look for the phone number for your country **at the bottom of this Etherpad.**  
12 The code to join this call is listed there as well.  
13 If you don't see a number for your country, please contact ebecker@carpentries.org.  
14  
15 **Archives (Timeslider):**  
16 • Everything recorded here is available in the etherpad archives. To access them, click on the clock icon (timeslider) near the  
17 through the archives.  
18 •  
19 **For hosts**  
20 • Checklist for discussion sessions: <https://github.com/carpentries/mentoring/blob/master/checklists-discussion-sessions.md>  
21 • Suggested agenda is at the bottom of the etherpad  
22  
23 **For attendees joining as part of instructor training:**  
24 • After completing your discussion session, please sign up for a 5-minute teaching demonstration here: <http://pad.software-carpentry.org/pad-of-pads>  
25 • To learn more about mentoring opportunities, visit our website: <http://www.datacarpentry.org/mentoring/>  
26  
27 **Note: if you are joining a session as part of instructor training, please:**  
28 1. identify yourself as a trainee.  
29 1. join a session that has at most three other trainees (i.e., max 4 trainees/session)  
30  
31 **Privacy Notice:**  
32 The mentoring subcommittee may choose to include discussion from these sessions in a public blog post. If you wish to keep  
33 All content is publicly available under the Creative Commons Attribution License: <https://creativecommons.org/licenses/by/4.0/>  
34 Users are expected to follow our code of conduct: <https://software-carpentry.org/conduct/>  
35  
36  
37 • **Tuesday, October 30**  
38 • 13:00 UTC - (1pm LON, 9am NYC, 6am LA) - Europe/S. Africa/S. America/N. America  
39 • <https://www.timeanddate.com/worldclock/fixedtime.html?msg=Carpentries+Discussion+Session&iso=20181030T13&tz=Europe/London>  
40 • Host (name & email): Arthur Endsley (endsley@umich.edu)  
41 • Link to host questionnaire to be completed at the end of call (do this "instead" of emailing attendee list): <https://goo.gl/...>  
42 • Co-host/notetaker (name & email):  
43 • Observers/listeners are welcome to attend and encouraged to email the host beforehand.  
44 • Attending:  
• name / affiliation / purpose for attending (debriefing, pre-workshop help, training checkout) / workshop URL (if ap



# Activities

- Learn new skills
- Develop instructional and curricular materials
- Contribute back to the Carpentry community
- Be part of a network of data-fluent instructors
- Refine skills by participating as instructors at other member institutions



# Workshops

All 15 NESCLiC pilot-year members recently completed instructor training in 2018 and have been busy teaching carpentry workshops.

Members of NESCLiC have served as hosts, instructors, and helpers in nine workshops across New England, reaching librarians and scholars.

## Workshops

Check back for future workshops offered by NESCLiC members.

*This list includes official Carpentries' workshops and workshops adapted from the Carpentries' materials where NESCLiC members served as hosts, instructors, or helpers .*

Venue	Dates	Lessons
<a href="#">Tufts</a>	November 17-18, 2017	Unix, Python, Git
<a href="#">Dartmouth College</a>	December 4-5, 2017	Unix, Python, Git
Virtual	January 30-31, 2018	Instructor Training
<a href="#">Yale University Library</a>	March 12, 16, & 19, 2018	Intro to Data, Unix, Git, OpenRefine
<a href="#">Yale University Library</a>	April 18, 2018	Programming with Python
<a href="#">SCSU</a> (Hosts), Yale (Helpers)	May 3-4, 2018	Unix, Git, R
<a href="#">Berklee School of Music</a> (Hosts), Tufts (Instructors)	June 8, 2018	Data Intro for Librarians, Shell Lesson for Librarians, OpenRefine for Librarians
<a href="#">Dartmouth College</a>	June 28-29, 2018	Unix, Git, Programming with R
<a href="#">Yale University Library</a>	August 15-16, 2018	Tidy Data for Librarians, Shell Lesson for Librarians, OpenRefine for Librarians, Python Intro for Librarians
<a href="#">Brown University Library</a> (Hosts & Helpers), Yale and Tufts (Instructors)	October 22-23, 2018	Data Intro for Librarians, Shell Lesson for Librarians, Git Intro for Librarians, OpenRefine for Librarians
<a href="#">Tufts University</a>	November 9-10, 2018	Unix, Git, Programming with Python

# Workshop Feedback

We collect feedback at the end of each day:

## YELLOW (What worked well?)

- “I liked the availability of further examples”
- “Excellent introduction”
- “Very helpful to learn about collaborating on Github & using OpenRefine. I can see application to my work in the future”

## RED (What could be better?)

- “Wish we had more time”
- “More on how different parts of the workshop could work together”
- “More practice time”

# Goals

Keep alumni involved!

Recruit new members!

Run more LC Workshops!

Develop new curriculum!





# Get involved!

Learn how the instructors are staying involved in this consortium, building their own carpentry skills, giving back to their communities, and collaborating around New England (and beyond)!

**Email:** [nesclic@googlegroups.com](mailto:nesclic@googlegroups.com)

**Website:** <https://nesclic.github.io/home>

**Github:** <https://github.com/NESCLiC>

**Publications:** <https://nesclic.github.io/home/publications>

# Executive Team

Andrew Creamer, Brown University, [andrew\\_creamer@brown.edu](mailto:andrew_creamer@brown.edu)

Lora Leligdon, Dartmouth College, [lora.c.leligdon@dartmouth.edu](mailto:lora.c.leligdon@dartmouth.edu)

Julie Goldman, Harvard Medical School, [julie\\_goldman@hms.harvard.edu](mailto:julie_goldman@hms.harvard.edu)

Sarah Oelker, Mt. Holyoke College, [soelker@mtholyoke.edu](mailto:soelker@mtholyoke.edu)

Kristin Lee, Tufts University, [Kristin.Lee@tufts.edu](mailto:Kristin.Lee@tufts.edu)

Thea Atwood, UMass - Amherst, [tpatwood@umass.edu](mailto:tpatwood@umass.edu)

Joshua Dull, Yale University, [joshua.dull@yale.edu](mailto:joshua.dull@yale.edu)

# 2017–2018 Participants

Patrick Rashleigh, Brown University

Bruce Boucek, Brown University

Lora Leligdon, Dartmouth College

Christian Darabos, Dartmouth College

Julie Goldman, Harvard Medical School

Ceilyn Boyd, Harvard University

Sarah Oelker, Mt. Holyoke College

James Burke, Mt. Holyoke College

Kristin Lee, Tufts University

Allison Gofman, Tufts University

Kyle Monahan, Tufts University, Data Lab

Thea Atwood, UMass Amherst

Joshua Dull, Yale University

Catherine DeRose, Yale University, DHLab

Kate Nyhan, Yale University, Medical Library

# 2018–2019 Participants

TBD, Brown University

Pamela Bagley, Dartmouth College

Stephen Gaughan, Dartmouth College

Meghan Kerr, Harvard Medical School

Lenny Paritsky, Tufts University

Annie Swafford, Tufts University

Jennifer Chaput, UConn

TBD, UMass Amherst

Sally Gore, UMass Medical School

Tess Grynoch, UMass Medical School

Sawyer Newman, Yale University

Jonathan Olmsted, Yale University

Barbara Esty, Yale University



# Publications

Dull, J., Lee, K., Leligdon, L. 2017. Working together to join Software Carpentry in New England [Blog post; 2017-10-10]. <https://words.usask.ca/ceblipblog/tag/software-carpentry>

Atwood, T., Creamer, A., Dull, J., Goldman, J., Lee, K., Leligdon, L., Oelker, S. 2018. “The New England Software Carpentry Library Consortium: Developing a Carpentry Instructor Community of Practice.” The 10th Annual University of Massachusetts and New England Area Librarian e-Science Symposium; 2018-04-05.

[https://nesclic.github.io/home/blob/pubs/20180404\\_eSciencePoster.pdf](https://nesclic.github.io/home/blob/pubs/20180404_eSciencePoster.pdf)

Dull, J., Atwood, T., Creamer, A., Goldman, J., Lee, K., Leligdon, L., Oelker, S., Erdmann, C. 2018. New England Libraries Team Up to Become Carpentries Members [Blog post; 2018-08-13].

<https://librarycarpentry.org/blog/2018/08/13/new-england-libraries-carpentries-consortium>