

Library and Information Resources for Computer Science (CS 591)

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Hotseat

Two ways to participate:

1. Texting by cell phone

2. On the web

a. connect to PAL 3.0

b. visit <https://www.openhotseat.org> in a web browser

c. click **Public Spaces**

d. scroll down and click **Library and Information Resources for Computer Science**

e. when you submit responses (later) check the Anonymous box

topics

1. Producing scholarship
2. Planning your research & navigating library collections
3. Managing citations
4. Managing and sharing data

Poll 1: What is your area of study?

E.g., machine learning, databases, information assurance, software engineering

Poll 2: Have you authored or co-authored a paper?

Poll 3: What is the best conference or journal in your area of study?

Take five minutes to research on the web or discuss with other students

Poll 4: Why do you think this is the best conference or journal in your area?

Formulating a good research question

- Relevant
- Manageable in terms of research and your abilities
- Substantial and original
- Consistent with requirements of assignment or call
- Clear and simple
- Interesting

Create a research plan

- Review call for papers
- Organize work with collaborators and set deadlines
- Articulate and refine **research question**
- Consult background sources
- Note subject terms and keywords
- Determine **best sources** (authority, currency, quality, bias, relevance, accuracy)
- Conduct **lit review** - revisit and refine question if needed
- Document sources
- Perform and report research

Why conduct a literature review?

- Inform your work
- Confirm originality
- Reframe your question
- Provide background for your work
- Demonstrate how it fits with or extends current state-of-the-art
- Find the best venue

Poll 5: Find your paper or a recently published paper from your advisor. Respond to the poll with the title of the paper and link to it

Take five minutes to locate a paper and respond to the poll with its title and link

Where can you find quality information in Computer Science?

- Primary versus secondary sources
- Library website: <http://www.lib.purdue.edu>
- Catalog; print collections in CS are located in the Engineering (POTR) and Mathematical Sciences (MATH) libraries
- Databases and e-journals
- Google Scholar (set Preferences to search Purdue holdings)

“Big Four” library databases for CS

1. ACM Digital Library
2. IEEE Xplore
3. Lecture Notes in Computer Science
4. Foundations and Trends

Citation searching

- DBLP
- Google Scholar
- CiteSeer
- Microsoft Academic Search, etc.

Managing citations

Demo of Zotero as an example but other good software such as EndNote, Mendeley, and RefWorks are similar and effective

Library guide: <http://guides.lib.purdue.edu/zotero>

some examples of data

- Tables and spreadsheets
- Sensor and instrument output
- Software source code and simulations
- Images, video, and audio
- Observation logs
- Workflows
- Interview transcripts
- Survey instruments and results, etc.

data = evidence



why share data?

- Helps other researchers better understand your research
- It's good science: reproducibility
- Get credit: the scholarship of data
- Enable reuse: creation of new knowledge & efficiency
- Funding agencies require it (data management plans): NSF, NIH, DOE, DOD, DHS, NASA, USDA, NEH, NOAA, FDA, EPA, HHS, AHRQ, DOI, ASPR, IMLS, CDC, DOT, ED, DOC, NIST, ODNI, SI, USAID, VA, Sloan Foundation, Gates Foundation, Moore Foundation, etc.

PURR - Home x

← → ↻ <https://purrr.purdue.edu> ☆ 🗄️ ☰

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What is PURR?


The [Purdue University Research Repository \(PURR\)](#) provides an online, collaborative working space and data-sharing platform to support the data management needs of Purdue researchers and their collaborators.

[Learn More](#)



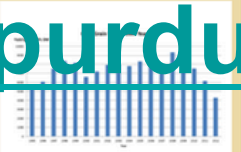
Start Your Research Project

 **Create a Data Management Plan**
Learn about the detailed requirements for your data management plan (DMP). Funding agency requirements are very specific and our DMP resources can help you to clear up any confusion. [Get Started >](#)

 **Upload Research Data to Your Project**
Create a project, upload and share your data with collaborators. Using our step-by-step form to guide you through the process. Invite collaborators from other institutions to join your project. [Create a Project >](#)

Featured Dataset

Maize grain yield record for the WQFS (1995-2012)
By S.M. Brouder, N. De Armond, R.F. Turco, J.J. Volenec
Purdue University



Have a Question?

Question:

<http://purrr.purdue.edu>

we covered:

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CS Library Guide: <http://guides.lib.purdue.edu/cs>
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Contact me to make an appointment.