ECE Brown Bag
Wednesday, July 18, 2018
12 PM – 1 PM
Van Leer Room 218

Library Services
ECE Library Databases
For **one-on-one in-depth and quick**
Library database **search assistance**
and project/lab group database instruction
contact

**Bette Finn**
ECE Subject Librarian
Email: [bette.finn@library.gatech.edu](mailto:bette.finn@library.gatech.edu)
Phone: 404-894-1790

These slides are available at
ECE Research Guide [http://libguides.gatech.edu/ece](http://libguides.gatech.edu/ece) (bottom, left column)
Library home page (left column)

http://library.gatech.edu/

- **Research Tools**
  - Library Catalog
  - Find Databases
  - eJournals
  - Course Reserves
  - Research Guides
  - Library Classes

- **Services**
  - Interlibrary Loan
“Research Tools” -- "Research Guides"

http://libguides.gatech.edu/

Electrical and Computer Engineering
Electrical and Computer Engineering

http://libguides.gatech.edu/ece

Inspec & Compendex index ECE journals & conference proceedings (check both boxes)
“Research Tools” (left column, home page) “Find Databases”

- **Search box** (top row, right) - type database name, then “Go”
- **Alphabetical** - I (for Inspec/Compendex)
- **Electrical and Computer Engineering** (left drop down menu) - “Subject”
URLs for selected Library databases may change

Have you experienced issues trying to access databases through the Georgia Tech Library website? It is likely due to our recent change to OpenAthens IP Authentication. If you have any access questions or **database access problems**, please **contact ept@library.gatech.edu**. This will allow us to establish an issues log and address the access issues systemically. Authentication service information is at [http://weblog.library.gatech.edu/news](http://weblog.library.gatech.edu/news), including changing permanently linked information ("Recent News" - right column: OpenAthens; Experiencing Issues with databases, etc.).

While accessing e-resources off-campus, you may notice an **OpenAthens login** screen. The OpenAthens screen will ask you to identify your home. Use the "**Login via your institution: Other Institution Login**" (box, **right column** of screen) then "**Find your organization**" to search for **Georgia** (Georgia Institute of Technology). From there, use the **Georgia Tech login** service and you will be given access to the resource.

**All Library databases:** [http://libguides.gatech.edu/az.php](http://libguides.gatech.edu/az.php)
Library home page (left column): "Research Tools" -- "**Find Databases**"
Scholarly Communication Services

The Georgia Tech Library is committed to ensuring the long-term preservation and access to scholarly and research materials produced by members of the institute. We do this through information resources, tools, educational materials, and training that support Georgia Tech faculty and students in creating, communicating, and maintaining their intellectual output.

SMARTech Repository
SMARTech (Scholarly Materials and Research at Georgia Tech) is Georgia Tech’s trusted digital repository, established to preserve and provide long-term open access to the research and scholarship produced by members of the institution. SMARTech is home to Georgia Tech research reports, peer-reviewed faculty publications, theses and dissertations, datasets, and recorded lecture series. To submit your materials to SMARTech, please visit https://smartech.gatech.edu.

Open Access Services
We can help you provide open access to your peer-reviewed scholarly research materials. The Library provides support for:
• Complying with the Georgia Tech Open Access Policy
• Complying with federal funding agency Open Access Policies
• Understanding author rights
For more information, please contact Fred Rascoe, Scholarly Communication Librarian at fred.rascoe@library.gatech.edu, or visit http://openaccess.gatech.edu/

Lecture Recording Service
We record, preserve, and provide access to campus-based scholarly lectures and research seminars based upon academic research. Scholarly lectures are captured and disseminated widely through the SMARTech Repository. For additional information about this service, please visit http://library.gatech.edu/services/recording-services.php or contact Katie Gentilello at katie.gentilello@library.gatech.edu

Research Data Services
We have tools and resources to help you manage, preserve, and share your research data and other research products. The Library provides support for:
• Complying with federal funding agency requirements for data management
• Publishing or sharing research data and other research sources
• Instruction and training on data management best practices and responsible conduct of research
For more information, please contact Susan Parham, Research Services Librarian, at susan.parham@library.gatech.edu, or visit http://d7.library.gatech.edu/research-data/home

For more information, please email us at smartech@library.gatech.edu.

http://www.prism.gatech.edu/~bw21/SCDC_Flyer.pdf
Research Data Management

http://d7.library.gatech.edu/research-data/

RESEARCH DATA MANAGEMENT

The Georgia Tech Library can help you manage and archive your research data. Library services include assistance with writing a data management plan, data management training, and data archiving for openly accessible data.

Data Management Planning

- Write a data management plan
- Learn about data management requirements
- Request help with a data management plan

Data Sharing and Archiving

- Submit your research data to SMARTech

Data Management Training
eBooks via OverDrive  http://overdrive.library.gatech.edu/

- OverDrive is a platform for downloading and reading electronic books.
- The Library purchased OverDrive with a grant from the Lewis H. Beck Educational Foundation to supplement its growing leisure collection.
The LENDS service delivers materials from the Georgia Tech Library’s collection to current GT faculty and staff. Items will typically arrive within 2-3 working days. There is no charge for this service.

**Books, FACULTY & STAFF ONLY (LENDs)**
Items are delivered daily by the LENDS van. Drop-off/pick-up points are located in each academic department and the GTRI labs. Interlibrary Loan items may also be delivered and returned through LENDS. If the GT Library does not own the requested item, it will be ordered through Interlibrary Loan unless otherwise indicated.

**Copies of Articles, Conference Papers, Tech Reports, etc.**
Items will be sent in electronic format to your ILLiad account. If the GT Library does not own the requested item, it will be ordered through Interlibrary Loan unless otherwise indicated.
Faculty/Staff. Document Delivery (LENGDS)
http://www.library.gatech.edu/services/lends.php
ILLiad Request Form
GT Students and Faculty/Staff
http://illiad.library.gatech.edu/

- **Interlibrary loan** of materials **NOT owned** by the Georgia Tech Library – book loans and photocopies (**PDFs**) of papers from other libraries.

- **PDFs of print** materials located in the Georgia Tech **Library Service Center** (individual journal papers, conference papers, and book chapters).

- The Library **subsidizes** interlibrary loan requests **up to $25.00 per item**. You will be notified if charges exceed that amount.

- **Most** (but not all) interlibrary loan requests will be free to you.
Course Reserves
https://ereserves.library.gatech.edu/ares/

- **GT instructors** can **request that books** (recommended readings for the class, etc.) and other materials be placed on Course Reserves, to make them **available to all students in their classes**.
- **Faculty** can **submit a purchase request** for Course Reserves books.
- **Course Reserve** material is located in the Public Services area (Library Store).
- For Course Reserves **questions** call **404-367-0865** or email **customersupport@library.gatech.edu**
Instructor request to place books, articles, book chapters, and class materials on Course Reserve

https://ereserves.library.gatech.edu/ares/

**SUBMITTING RESERVE MATERIALS**

What type of materials are you submitting?

- [ ] Books & Multimedia
- [ ] Journal Articles & Book Chapters
- [ ] Class Materials

**PLACING BOOKS & MULTIMEDIA ON RESERVE**

Can be placed on Reserve:
- books owned by the Library
- books not owned by the Library can be purchased for Reserves
- personal copies

Cannot be placed on Reserve:
- reference books
- journals
- books from other libraries

- Owned by the Library?
  - Use this online form

- NOT owned by the Library?
  - Submit a purchase request (FACULTY USE ONLY)

- Your personal copy?
  - Complete this form

THEN mail or bring the form and item(s) to the Library Services Desk, Library West Commons (see map).
Library Class Schedule (Top right corner of home page)
http://www.library.gatech.edu/calendar/libcalendar.php

EndNote
Patents
Multimedia
and other
Georgia Tech Library Classes
Multimedia Workshops and Resources
http://libguides.gatech.edu/multimedia

Multimedia Workshops: Introduction

This Guide outlines the variety of Multimedia offerings at the GT Library

Intro to Multimedia Resources

The Georgia Tech Library provides a variety of resources to support the Georgia Tech community with the use of Multimedia software and tools for research, course projects and professional development..

We offer hands on workshops that train users on resources such as Adobe Creative Suite (Photoshop, InDesign etc), Imovie, CMS (Wordpress,) and a variety of Open Source tools.

Instructional Librarians at the Georgia Tech Library teach over 100 workshops a year on professional technologies and software including, but not limited to topics related to: Video editing, Audio editing, Web Design, Infographics and Visual or Print Design.
Lynda videos and courses
http://lynda.gatech.edu/

• Georgia Tech employees and students have unlimited access to lynda.com, an online library of high-quality instructional videos on the latest software tools and skills.

• With more than 1,100 courses taught by industry experts—and more added every week—lynda.com is designed for all levels of learners and is available whenever you’re ready to learn. It can be viewed using an iPhone or iPad.
Records Management

http://www.library.gatech.edu/archives/records_mgmt.php

RECORDS MANAGEMENT

The Georgia Tech Records Center provides long-term secure storage for campus business and academic records whose retention is required to meet legal and/or fiscal guidelines.

Storing your old, inactive records in the Records Center is a cost-effective means of complying with retention requirements. By systematically organizing your inactive records for transfer to the Records Center, you can free up valuable office and filing space. You can also be confident that records will be securely destroyed once they have met their retention requirements.

Storage and retrieval services are free of charge to participating campus departments.

Archives and Records Management staff can advise you in organizing your records for transfer to the Records Center.

What is records management?

Records management involves the systematic control and organization of an institution's records. A records management program is intended to insure that an institution's records are created, maintained, and ultimately disposed of in a manner that meets legal and fiscal requirements.

Why implement a records management program?

- Promote efficiency in the management of the institute's information assets and safeguard long-term recordkeeping value.
Copyright & Fair Use  http://fairuse.gatech.edu/about/

About & Contact

The Georgia Tech Copyright & Fair Use site was created to promote Intellectual Property (IP)-consciousness on campus and to facilitate copyright compliance. This site is designed and maintained by GT Library's Intellectual Property Advisory Office. This Office is not a legal service and will not offer legal advice. However, this Office is led by a faculty member who is also a licensed attorney and can provide you general information about legal requirements and procedures and to assist you in the daunting process of copyright and fair use determination.

Contact Us

We look forward to hearing from you and to working with you. Please contact:

Bing Wang
Director, Intellectual Property Advisory Office, Georgia Tech Libraries
Tel: (404) 894-0816; Email: bing.wang@gatech.edu

Bing Wang assists faculty and students in identifying and managing their copyrights and to assist the Institution in managing and understanding copyright issues strategically. She also ensures that GT libraries provide fullest possible access to their collections within the confinement of copyright law. Bing earned her J.D. in 2015 from Georgia State University, her M.L.I.S. in 2004 from San Jose State University, her M.S. in Chemistry in 2003 from University of California, Riverside, and her B.S. in Chemistry in 2001 from Jilin University, Changchun, China. She is a member of the Georgia Bar.
Distance Learning
Library Materials Request Forms
http://www.library.gatech.edu/services/distance.php

Library Materials Request Forms and Procedures

Request loans and copies from the Georgia Tech Library and from other libraries.

GT Center for Distance Learning
Georgia Tech Lorraine
Other Off-Campus
Emory’s Woodruff Library collection now available

Georgia Tech faculty, staff and students can now request books and government documents from the circulating collection at Emory’s Woodruff Library. With the addition of these collections, our faculty, staff, and students now have ready access to an additional 2 million books and government documents. They are also able to request materials from the Science Commons and books from the Music Media collection.

Request materials from Woodruff

From the GT Library Catalog, select the “Emory Shared Collection” option from the drop-down menu, then search or browse to find an item of interest. Follow the “Available” link (under “Get it from other institutions”) to request delivery of the item from the Emory Library. The check-out period (unless an item is recalled) is 120 days, with up to three renewals.
retroTECH  http://retrotech.library.gatech.edu/

- **retroTECH** is a Georgia Tech Library program in which the campus community can create the future by exploring the past. With the emerging retroTECH Lab as a home base, students, faculty, staff, alumni, researchers, and community partners engage in hands-on research, DIY peer-to-peer digital archiving, experiential learning, and outreach around the evolution of technology.

- The vision for the retroTECH Lab entails a highly curated **combination of classic, vintage hardware and software and modern tools for digital archiving and emulation**, all designed to be accessed and used.
Data visualization is anything that converts data sources into a visual representation for the purpose of sense-making and communicating clearly and effectively. Sometimes data visualization also integrates analyzing data, which is usually called visual analytics.

Different categories of visualization:
• By purpose: explanation, exploration
• By presentation tools: Infographics, Timelines, Story Maps, Word Clouds, Charts and Graphs, Mapping, Images / videos
• By dimension: 1D, 2D, 3D/Volumetric
• By structure: network, tree structure /hierarchical, temporal, spatial

Data Visualization Librarian: Ximin Mi, e-mail ximin.mi@library.gatech.edu
phone 404-385-5685
Data Visualization: Data Viz Pilot Project

http://libguides.gatech.edu/dataviz/

Workshop materials are on our GitHub account.
WHAT - Services

Funded by Tech Fee, the Pilot Data Visualization project primarily serves the student community on campus. However, we also try to extend our services out of the lab space to the whole campus. The services include:

- **One-on-one research consultation** on data sources and visualization tools;
- **Group instruction** in the pilot space;
- **Embedded instruction** in your class;
- **Lab tour** for special interest groups;
- Space reservation for presentation / instruction.
We are happy to provide the **GT community** with a variety of equipment and accessories for both scholarly and leisure needs. All items are available for checkout at the **Library Store** (Public Services area) and loan periods vary from 4 hours to 2 days, depending on the item, unless noted otherwise. Please be advised that high demand items, such as camcorders and cameras, may be subject to wait lists. Note: GT Gadgets are purchased with Tech Fee funding. **Students** (undergraduate, graduate) have priority for requests.
OIT’s Multi-media Studio (for GT students)
http://library.gatech.edu/services/multimedia.php

MULTIMEDIA STUDIO

Location & Hours

Summer Hours:
Sunday: noon - midnight
Mon-Thurs: 8 am - midnight
Friday: 8 am - 8 pm
Saturday: 9 am - 6 pm

Computers

The Multimedia Studio is equipped with 17 Mac Minit’s with 24” displays and 7 iMacs with 27” displays.

Software

The Multimedia Studio has a plethora of software including Adobe Creative Suite Master Collection, Final Cut Pro, and Pro Tools.

View software for a more comprehensive list.

Scanners

The Multimedia Studio is equipped with one wide-format scanner (12.2” x 17.2”).

Printers

The Multimedia Studio is equipped with one color and one black and white printer.

Additional printing information

Plotter

The Multimedia Studio is equipped with one large format plotter which can print 24”, 36” and 42” inches wide and any length. The pricing is per linear foot, 2.50 for 24”, 2.75 for 36”, and 3.00 for 42”.

Lewis H. Beck Multipurpose Room

Located inside the Multimedia Studio, this room can accommodate video teleconferencing, professional audio recording, presentation rehearsal, and a mini classroom. This room is equipped with an Mbox Pro audio interface, Yamaha HS80M reference speakers, acoustical paneling, Mondopad touchscreen teleconferencing system, and 10 multimedia laptops. A full list of additional hardware and software is available inside the multimedia studio. The room is reservable via GTEvents for students. Faculty, and staff may reserve the room by contacting the library Marketing & Event Manager.

Training and Support

The Multimedia Studio is staffed the Library hours. User Assistance are available to help with any software or hardware questions in the lab. In addition to one-on-one support, there are a number of training opportunities available, including Library classes on various multimedia software and comprehensive online training videos offered by Lynda.

If you have any additional questions about the space please call us at: 404-385-0242.
Clough Commons

http://clough.gatech.edu/

The Communication Center is located in

Clough Commons 447. Our trained professional and peer tutors help undergraduate and graduate students with:

- written projects
- multimodal projects
- graduate school applications
- lab reports
- senior design papers
- individual and group presentations
- poster designs
- grant proposals
- cover letters
- resumes and CVs
- and more...

For whatever you are working on, we help you find the most effective way to communicate your message by making sure you are thinking critically and carefully about audience, tone, and medium, among other criteria. All of our services are free and confidential.

Please Contact Us: commlab@gatech.edu or 404-385-3612
• Conduct a search, limiting to only “Library Catalog”

• **Availability** (right column)
  - “Full Text Online” -- Electronic (“View It” or “view full text” or “Full text available at:” or “View online” or “online access”)
  - “Available in Print” - Physical items (usually **print - hard copy**) located in one of multiple GT Library locations

• **Permalink** (row)

• **Details** may provide a description or contents
Search Tips:

• The asterisk (*) character can be used as a wildcard in place of one or more characters. Examples: recycl*, organiz*, hymn*

• Enclosing your search in quotes (“ ”) will only return results with an exact match. Examples: “signal processing” "Affordable Care Act"

• Searches can also be nested in (parenthesis), combined with “quotes" and **Boolean operators AND, OR, NOT.**
  
  Boolean operators are in capital letters.
  
  Example: ("World War II“) AND (sites OR battles)

Restrict to only journal records

• **“Material Type”** for Library Catalog (top right)
  
  ➢ Limit to "journals” (restrict to only journals)
Library Catalog. Drop-down menus
- Limit by **Field** (left column):
  - Title, Author, Subject, ISSN, Call Number
- Contains; is (exact); starts with
- **GT theses & dissertations** are linked to PDFs in Library Catalog records and are also listed in “GT Theses & Dissertations” under “Search Scope” (left drop down menu)

**Sort by** (right column, “**Tweak my results**”):
Relevance, **Date-newest**, Author, Title
## ECE Databases Listed by Topic

**http://www.prism.gatech.edu/~bw21/eceindex.htm**

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- **Books**
- **Citation Indexes** (cited reference searching)
- **Contract awards, Funding opportunities**
- **Dissertations**
- **Handbooks**
- **Patents**
- **Standards**
- **Technical Reports**
• ECE databases **Inspec and Compendex** index individual papers in **journals** and **conference** proceedings

• “Databases” – Check **both boxes** for **Inspec and Compendex**

• For **journal** papers, can copy and paste the **title** keywords then click on “**Find It @ GT**” to locate Library subscription ***PDFs***

• Use “**Search history**” to **combine previous search statements** together
  
  (#1 OR #2) AND (#3 OR #4) AND model*

• “Add search field”

• **Thesaurus** terms are different in Inspec and Compendex
• "Refine" -- "Remove duplicates" -- Database Preference" (left column)
• Truncation asterisk (*)
• Proximity operators (such as NEAR/ #)
• Limit by field: Author, Title, Controlled term (thesaurus), Uncontrolled term, etc.
• Free "Create account" to set up alerts, save records, save search lines
• Usually leave Autostemming set to ON
• “Display” 100 (records at a time)
• “Sort by:” Date (Newest) or Relevance
• “Find It @ GT” usually works for journals but often will not work for conference papers owned or subscribed by Georgia Tech Library
• Download, print or email records: use “Abstract” or “Detailed record”
We welcome your feedback and suggestions!
Library home page -- top of screen (right side)

Feedback
http://www.library.gatech.edu/about/contact.php

For **ECE** one-on-one **in-depth and quick** database **search assistance** and group instruction, please **contact Bette Finn**
(bette.finn@library.gatech.edu ; 404-897-1790)
Galileo databases

"Research Tools"

"Galileo" (right column)

"Browse by Subject"

"History"

"Genealogy"
• "Research Tools"
  "Find Databases"
  Middle, drop-down menu

• Biography databases
  "biographies"

• “Newspapers” -- selected obituaries, etc. Library newspaper databases include US Newstream (Atlanta Journal-Constitution etc.) and other ProQuest databases (search the ProQuest “no full text” field - NOFT), Factiva, and Nexis Uni. Selected obituaries and biographical sketches are also included in trade and scholarly journals.
biographies

newspapers