ACADEMIC TECHNOLOGIES

LET’S LEARN FROM EACH OTHER!
• Hmmm . . . .
  • What does it mean to you?
Pedagogy

• The method and practice (art and science) of teaching, especially as an academic subject or theoretical concept.

• What is the value-add of educational technology?
  • Efficiency
  • Engaging lectures
  • Enabling group work
TOOLS TUESDAY

57 Potluck Pleasers
BE CREATIVE

- Board preparation
- Research
- Clinical and rounds teaching
- Didactic teaching
- Future Academic Career

- Reference Management
- Collaboration
  - Documents
  - Projects
  - Synchronous
- Back-up
- Productivity
Wireless Access

- EduRoam
ACADEMIC PRICING

- Contact the Cornell Store or VMIT
- Apple
- Dell
- Software
- Accessories
- Rentals
ENTERPRISE LICENSES

• Research employer benefits and free versions!

• Cornell
  • Microsoft
    • Free Windows and Office
  • Adobe products
  • Antivirus protection
  • EZ-Backup
Titles Available to Faculty and Staff:

Operating Systems
- Microsoft Windows
- Microsoft Windows Server
- Mac OS X
- RedHat Enterprise Linux

Business
- FileMaker
- Microsoft Office Licensing Options
- Microsoft Office Site License
- Microsoft Server Products
- Other Microsoft Products (including Project and Visio)
- Oracle database *
- Tableau *

Graphics and Design
- Adobe
- Autodesk

Math and Science
- ChemDraw *
- Codoncode Aligner *
- DNASTar Lasergene *
- Gene Construction Kit *
- Gurobi Optimizer *
- LabView
- Manifold *
- Mathematica
- MATLAB
- Maple
- PAUP *

Statistics
- JMP
- Minitab
- SAS
- SPSS
- Stata *

Utilities/Security
- Fetch *
- Symantec Ghost Solution Suite
- Identity Finder *
- Symantec Endpoint Protection *

Web and Development
- Adobe
- CommonSpot *
- Hyperion Interactive Reporting * (formerly Brio)
- Microsoft
- Oracle *
- Tableau *

No Longer Available
- Diskkeeper
- Exceed
- Spotfire S+ and Spotfire Miner
- Timbuktu
**PRODUCTIVITY**

- **Microsoft Office suite**
  - Free to faculty, students, staff

Office 365 ProPlus includes:

<table>
<thead>
<tr>
<th>Office suite</th>
<th>Always have the latest versions of:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>![Microsoft Office logos]</td>
</tr>
<tr>
<td></td>
<td>- Capture your ideas however you work best—using a keyboard, pen, or a touchscreen.</td>
</tr>
<tr>
<td></td>
<td>- Open PDFs and edit paragraphs, lists, and tables just as you do in familiar Word documents.</td>
</tr>
<tr>
<td></td>
<td>- Keep track of comments in Word documents and mark them as done with the new reply button.</td>
</tr>
<tr>
<td></td>
<td>- Convert your data into a chart or table in two steps or less so you can analyze it faster, and then preview it with different formatting.</td>
</tr>
<tr>
<td></td>
<td>- Embed Excel spreadsheets, Visio diagrams, photos, and almost any other kind of computer file, in your OneNote notebooks.</td>
</tr>
<tr>
<td></td>
<td>- Share your PowerPoint presentation over the web by sending a link to it.</td>
</tr>
<tr>
<td></td>
<td>- Design customized marketing materials that fit your brand and customers.</td>
</tr>
</tbody>
</table>

| Office on PCs, tablets, and phones | Enjoy a consistent and familiar Office experience across PCs, Macs, Windows tablets, iPads®, and most mobile devices. Each user can install Office on 5 PCs or Macs, 5 Windows tablets or iPads, and 5 phones. |
|                                   | Office supports PCs and Windows tablets running Windows 7 or higher, and Macs running MAC OS X 10.6 or higher. Office for iPad can be installed on iPads running version 7 or higher. For more information about mobile devices, visit [www.office.com/mobile](http://www.office.com/mobile). |

| Office Online | Create and edit Word, Excel, PowerPoint, and OneNote files via a web browser. Real-time co-authoring simplifies collaboration. |
PRODUCTIVITY

- Microsoft OneNote
- Cross platform
- Markup PDFs
- Web clips
- Handwriting and text notes
- Audio/video capture
- FERPA/Cornell protections

Click this to listen to what happened when you took this note. #AwesomeSauce
http://www.it.cornell.edu/services/box/new.cfm

- Manage and preview files in many formats
- Share files and folders while controlling access
- Comment on files
- Sync desktop/back-up
  - 50 gb of storage
- Web access, even mobile devices
- Box provides free personal accounts and Cornell will provide instructions to migrate your account when you leave
BOX PRODUCTS

• Let’s compare!
  • Cornell Drop Box
    • Secure FTP site
  • Cornell Box – enterprise license
  • MS One Drive for Business
  • Other Options
    • Dropbox.com – your stuff anywhere
    • Sugarsync
CITATION MANAGEMENT

- [https://www.library.cornell.edu/research/citation](https://www.library.cornell.edu/research/citation)
- Don’t forget about librarians!

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**RefWorks**
- [RefWorks](https://www.proquest.com/products/refworks) is a web-based tool from Proquest for managing citations and bibliographies. It is free for all Cornell students, staff, faculty, and alumni. (First-time users must [set up an account](https:).
- [Using RefWorks with Selected Cornell Databases](https://www.library.cornell.edu/research/citation)
- Free campus workshops on RefWorks: [Olin-Uris Library](https://www.library.cornell.edu/research/citation) and [Mann Library](https://www.library.cornell.edu/research/citation)
- Self-guided instruction in the form of tutorials, FAQ, and webinars are available through [RefWorks](https://www.proquest.com/products/refworks).

**Zotero**
- [Zotero](https://www.zotero.org) is a free, open source, web-based tool for managing citations, organizing pdfs, and creating bibliographies.
- Free campus workshops on Zotero: [Olin-Uris Library](https://www.library.cornell.edu/research/citation) and [Mann Library](https://www.library.cornell.edu/research/citation)
- Self-guided instruction in the form of tutorials, FAQ, and help are available through [Zotero](https://www.zotero.org).

**Mendeley**
- [Mendeley](https://www.mendeley.com) is a free, web-based tool for managing references, creating bibliographies, and pdf organizer.
- Free campus workshops on Mendeley: [Mann Library](https://www.library.cornell.edu/research/citation)
- Self-guided instruction in the form of tutorials, FAQ, and help are available through [Mendeley](https://www.mendeley.com).

**EndNote**
- EndNote is citation management software produced by ISI. A free 30-day trial is available through the EndNote website. The software can be purchased at the Campus Store.
- Free campus workshops on EndNote: [Mann Library](https://www.library.cornell.edu/research/citation)
- Self-guided instruction through online tutorials is available at [Mann Library](https://www.library.cornell.edu/research/citation).
MENDELEY

- Free, multiplatform software
  - PC
  - Mac
  - Web
- Easily import
  - PDFs
  - PubMed, Google Scholar, Amazon
- Share citations and references
- Citation management and bibliography
  - Automatic formatting for many journals
  - Plug-ins for Word
ELECTRONIC LAB NOTEBOOK

- LabArchives - Secure data storage
- Plug ins
  - Freezer box sample database
  - Handwriting for tablets
- Export capabilities
- Share with research group
## Anal Sac Adenocarcinoma - Retrospective

### 234000-R1

**Thompson CT - Right medial iliac LN**

<table>
<thead>
<tr>
<th>Question</th>
<th>Answer</th>
</tr>
</thead>
<tbody>
<tr>
<td>Is the right medial iliac LN visible?</td>
<td></td>
</tr>
<tr>
<td>How many right medial iliac LNs?</td>
<td></td>
</tr>
<tr>
<td>What is the size (of the largest LN)- width?</td>
<td>cm</td>
</tr>
<tr>
<td>What is the size (of the largest LN)- height?</td>
<td>cm</td>
</tr>
<tr>
<td>What is the size (of the largest LN)- length?</td>
<td>cm</td>
</tr>
<tr>
<td>What is the short:long axis ratio of the right medial iliac LN?</td>
<td></td>
</tr>
<tr>
<td>Is the short to long axis ratio &lt;0.5?</td>
<td></td>
</tr>
<tr>
<td>What is the shape of the right medial iliac LN?</td>
<td></td>
</tr>
<tr>
<td>What is the outline of the right medial iliac LN?</td>
<td></td>
</tr>
<tr>
<td>What is the average attenuation (HU) of the right medial iliac LN?</td>
<td>HU</td>
</tr>
<tr>
<td>What is the contrast enhancement pattern of the right medial iliac LN?</td>
<td></td>
</tr>
<tr>
<td>Where is the post contrast enhancement?</td>
<td></td>
</tr>
<tr>
<td>Any other findings (bone involvement, other lymphadenopathy, perinodal abnormality?)</td>
<td></td>
</tr>
</tbody>
</table>

(maximum 50 characters)
DATA MANAGEMENT

http://data.research.cornell.edu/

Service Spotlight

Use the DMPTool to create customized data management plans

The Data Management Plan Tool (DMPTool) is an online tool for creating, reviewing, and sharing data management plans. Templates for many funding agencies are available, including the NSF, NIH, and others. Cornell University is an institutional partner, allowing you to quickly log in using your Cornell NetID and password and easily get help and guidance from the RDMSG for Cornell-specific services.

See a 90-second animated overview of the DMPTool or, for more general information about data management plans, see our Data Management Planning guide.

Please note: The DMPTool is hosted by the California Digital Library (CDL). All content saved in the tool is held on CDL servers and is subject to their privacy policies.

Recent news

Data Management in Excel 2013: Using Pivot Tables

Wed, Oct 29, 2014

Tuesday, Nov 4, 2014 12:00-1:30, Stone Classroom, Mann Library. Sometimes it is difficult to track all of the information from Microsoft Excel when using Pivot Tables. This workshop teaches you how to...
# General Statistical Software

- [http://www.cscu.cornell.edu/software/licenses.php](http://www.cscu.cornell.edu/software/licenses.php)

<table>
<thead>
<tr>
<th>Software</th>
<th>License Information</th>
<th>Cornell Contact</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>JMP</strong></td>
<td>Site License</td>
<td>David Peck</td>
</tr>
<tr>
<td><strong>Matlab</strong></td>
<td>Site License</td>
<td>David Peck</td>
</tr>
<tr>
<td><strong>Minitab</strong></td>
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<tr>
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<td>David Peck</td>
</tr>
<tr>
<td><strong>STATA</strong></td>
<td>Site License</td>
<td>CSCU</td>
</tr>
</tbody>
</table>
COLLABORATION

• Blogs – edublogs (campuspress – wordpress based)
  • Website creation
    • copyright, FERPA, academic integrity

• Confluence Wiki

• Web Conferencing
  • WebEx, Lync, Skype, Google Hangout

• Piazza – free Q & A platform

• LMS (Blackboard, Canvas)

• Basecamp, SharePoint – project management

• Documents – version control
  • Box, Google Docs, OneNote
DELIVERING CONTENT

• Use an LMS

• ClassLists or Blackboard

• Consider using it on rotations
  • Central location for section teaching materials
    • PowerPoint
    • Clinical videos or pictures
    • Instructions for assignments, responsibilities
  • Collaboration tools
i>clickers - POLLING

1. Instructors ask questions through any presentation application
2. Students answer questions with a remote or smart device
3. Instructors display results in real-time and record responses
Teaching Ideas

Here are some starting ideas on how to use ePortfolios in your learning and teaching.

Create an ePortfolio …

- For designing a professional web presence for applying to Internships.
- For Documenting a Research Project.
- For Documenting your Work in a Course. You can then invite future professors to view that portfolio before you start working in their course(s).
- For Documenting a Capstone project for a course.
- For Documenting Group Project Work.
- For Documenting experiences from a study-abroad or service-learning experience.
- For Documenting your work over the course of your degree at Cornell.
- For Showcasing your work, whether it be art, music, schematics, essays, etc..

There are many other ways of using ePortfolios in your learning and teaching. Consider scheduling an appointment with an Instructional Designer in Academic Technology Services to talk more specifically on how you can harness the power of ePortfolios. Just email atc_support@cornell.edu and include “ePortfolios” in the Subject line; someone will then get back to you to schedule an appointment.
• GoPro
• Swivl

• Could we homogenize / fill downtime on clinical rotations with procedural videos?

• Tools
  • Kaltura – open source platform for delivering video content
  • Can be integrated into Blackboard
  • Panopto (free! Can use at your desktop)
### Search Results

<table>
<thead>
<tr>
<th>PACS</th>
<th>Patient ID</th>
<th>ID</th>
<th>Examination</th>
<th>Diagnosis</th>
<th>Keywords</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>PACS</td>
<td>113567</td>
<td></td>
<td>11.5-year-old, NC, mixed-breed, dog with mass on penis</td>
<td>clinically normal, neoplastic</td>
<td>body wall lipoma, mass, superimposed on thorax</td>
<td></td>
</tr>
<tr>
<td>PACS</td>
<td>115410</td>
<td></td>
<td>14.5-year-old, FS, siamese, cat with lethargy/classic</td>
<td>clinically normal, artifact</td>
<td>referral radiographs with excessive edge enhancement and image noise that was interpreted as &quot;boney-appearing artifact&quot;; or image shows normal image with appropriate exposures; digital imaging artifact</td>
<td></td>
</tr>
<tr>
<td>PACS</td>
<td>1285</td>
<td></td>
<td>0.1-year-old, F, golden retriever, dog with no complaint</td>
<td>clinically normal</td>
<td>normal puppy bones, anatomy</td>
<td></td>
</tr>
<tr>
<td>PACS</td>
<td>149106</td>
<td></td>
<td>18.5-year-old, FS, mixed-breed, dog with no complaint</td>
<td>clinically normal</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PACS</td>
<td>143573</td>
<td></td>
<td>9.9-year-old, FS, beagle hound, dog with resp/cardiac distress</td>
<td>clinically normal</td>
<td>clinically normal thorax, nice view of cerebral medulla</td>
<td></td>
</tr>
</tbody>
</table>
GRADING

• Less well developed
  • eTest
  • Turnitin
CURATED LEARNING

- Qualtrics University

- lynda.com
  - [http://www.it.cornell.edu/services/lynda/](http://www.it.cornell.edu/services/lynda/)

Cornell faculty, students, and staff have free, unlimited access to lynda.com's online library of high-quality videos on the latest software tools and skills. 2,500 high quality, detailed online training courses for people at all experience levels are available.
WHAT ELSE DO YOU WANT TO UNDERSTAND?

- LMS
- Adaptive/HTML 5.0
- MOOCS
- Apps