On giving talks

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Inspiration

It's nice if you do a great job and earn an A on your final project, but let's think bigger:

- Many important and influential ideas, insights, and algorithms began as class projects.
- Getting the best research-oriented jobs will likely involve giving a job talk. Your project can be the basis for one.
- You can help out the scientific community by supplying data, code, and results (including things that didn't work!).

Overview

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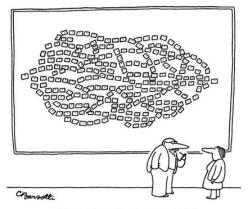
On writing papers

On conference submissions

On giving talks

Your presentations

On writing papers



"It's plotted out. I just have to write it."

Eight two-column pages plus 1-2 pages for references. Here are the typical components (section lengths will vary):

Title info

Overview

1. Intro

2. Prior lit.

3. Data

4. Your model

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Results

6. Analysis

7. Conclusion

A commonly-used structure for NLP papers

- Opening: general problem area, goals, and context.
- 2 Related work (if it helps with set-up; else move to slot 6)
- 3 Model/proposal
 - a. Data (separate section if detailed/new/...)
 - b. Experimental set-up
- 4 Results
- 5 Discussion
- 6 Related work (if here largely for due diligence, or if understandable only after the results have been presented)
- Conclusion: future work not what you will do per se, but rather what would be enlightening and important to do next.

Similar to the format for experimental papers in psychology and linguistics, except that they tend to have much longer openings and section 3 often has more sub-parts on the methods used.

Overview

http://cs224u.stanford.edu/restricted/shieber-writing.pdf

Stuart Shieber on the 'rational reconstruction' format

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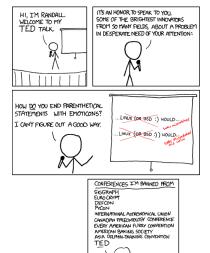
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- Rational reconstruction: "You don't present the actual history that you went through, but rather an idealized history that perfectly motivates each step in the solution." [...] "The goal in pursuing the rational reconstruction style is not to convince the reader that you are brilliant (or addle-headed for that matter) but that your solution is trivial. It takes a certain strength of character to take that as one's goal."

David Goss's hints on mathematical style

"Two basic rules are: 1. Have mercy on the reader, and, 2. Have mercy on the editor/publisher. We will illustrate these as we move along."

http://www.math.osu.edu/~goss.3/hint.pdf

On conference submissions



http://xkcd.com/541/

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Overview

These rating categories have prose descriptions attached to them to help clarify the program committee's intentions:

Appropriateness: 1-5 1-5 Clarity: Replicability: 1-5 Originality / Innovativeness: 1-5 Soundness / Correctness: 1-5 Meaningful Comparison: 1-5 Thoroughness: 1-5 Impact of Ideas or Results: 1-5 Impact of Resources: 1-5 Overall Recommendation: 1-5

Presentation Format: Poster/Talk/Both possible

Best paper possibility? Yes/Maybe/No

Resubmission as short paper: recommended/not recommended

Presentation types

- Oral presentations vs. poster presentations
- Workshops vs. main conferences

Some important NLP conferences (broadly construed)

ACL

- NAACL
- EMNLP
- EACL
- COLING
- CoNLL

- www
- WSDM
- KDD
- ICWSM
- AAAI
- CogSci

- ICML
- NIPS
- ICLR

- You submit an abstract or short form paper.
- The reviewers write comments and give rankings.
- The program committee does some magic to arrive at the final program based on this input.

On abstracts

- Important for creating a first impression, reviewer bidding, and reviewer assigning.
- A general structure:
 - 1 The opening is a broad overview a glimpse at the central problem.
 - 2 The middle take concepts mentioned in the opening and elaborates upon them, probably by connecting with specific experiments and results from the paper.
 - 3 The close establishes links between your proposal and broader theoretical concerns, so that the reviewer has fresh in her mind an answer to the question "Does the abstract offer a substantive and original proposal".

On giving talks



Basic structure

Beginning

- What problem are you solving?
- Why is it important?
- What approaches have been tried, and why have they not fully solved the problem?

Middle

- What data?
- What approach? (model type, feature representations)
- How to evaluate success?

End

- Quantitative results, graphs that slope upward.
- Which features/techniques/resources contributed most?
- What kinds of things do we still get wrong? Examples.

(Mirrors paper stucture, but talk structure has to be simpler.)

Pullum's Golden Rules

Geoff Pullum's Five Golden Rules (well, actually six) for giving academic presentations

- 1 Don't ever begin with an apology.
- 2 Don't ever underestimate the audience's intelligence.
- 3 Respect the time limits.
- 4 Don't survey the whole damn field.
- 5 Remember that you're an advocate, not the defendant.
- 6 Expect questions that will floor you.

http://www.lel.ed.ac.uk/~gpullum/goldenrules.html

Overview

Patrick Blackburn's fundamental insight:

Where do good talks come from?

Honesty.

"A good talk should never stray far from simple, honest communication."

Slide contents: two schools of thought

Minimalism

- 1 Your slides should be as spare as possible without sacrificing clarity.
- 2 The audience should spend most of the time listening to and looking at you.
- 3 Individual slides do not stay up for long or get used in more than one way.

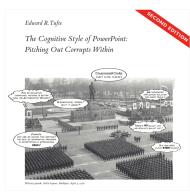
Comparative

- Your slides should be as full as possible without sacrificing clarity.
- Your talk should make it easy for people to spend time studying your slides.
- 3 Individual slides stay up for a long time and get used to make multiple comparisions and establish numerous connections.

A personal matter

- The minimalist view seems right for telling a story often the best mode when time is of the essence and the audience is mainly there to learn about what your paper contains.
- The comparative view seems right for teaching; it's the closest slides come to a full, well-organized chalkboard.
- Find the style that works for you. As long as you think long and hard about what it will be like to listen to your talk, and adjust accordingly, you'll shine.

PowerPoint used for evil (not inevitable!)



http://www.edwardtufte.com/
tufte/powerpoint



http://norvig.com/Gettysburg/

More mundane things

- Turn off any notifications that might appear on the screen.
- Make sure your computer is out of power-saver mode so that the screen doesn't shut off while you're talking.
- Shut down running applications that might get in your way.
- Make sure your desktop is clear of files and notes that you wouldn't want the world to see.
- If using PowerPoint / Keynote / Google Slides, have a PDF back-up just in case.
- Projectors can fail; always be prepared to give the talk without slides.

The question period

- This is the most important part of the conference presentation.
- It should be a chance for the audience to gain a deeper understanding of your ideas. When the entire question period has this aim, it is a joy.
- But sometimes other things happen.
- Try to pause for one second before answering each question.
- Never say "I have no idea" and leave it at that.
- When floored, say: "I have no idea, but what ..."
- Most questions won't make total sense to you. Your questioner doesn't know the work all that well.
- You'll be a hit if you can warp every question you get into one that makes sense and leaves everyone with the impression that the questioner raised an important issue.

Your presentations



The Night Before the Big Meeting Frank Receives a Visit from the PowerPoint Fairy.

Video presentation guidelines

- Your video presentations are due at 4:30pm on June 5
- These are intended to be "lightning" talks please keep it under four minutes!
- Prepare your time is limited, so you can't waste time repeating yourself, figuring out how you want to state things and so forth
- Practice nothing in your slides should surprise you; for every slide, you should have a rhetorical plan of action
- Coordinate if you more than one person from your group is speaking, practice the transitions carefully so that they don't waste time

Practical details

- Create a short deck using Google Slides, Powerpoint, or Keynote
- Make a video recording of yourselves talking through the deck
 - So that we're seeing your slides, but hearing your voices
 - On a Mac, you can use QuickTime (New Screen Recording)
- Upload your video to YouTube
 - You can set privacy to "Unlisted" if you don't want it to be widely available
- Send us the URL