

# **ANLY482 Analytics Practicum**

## **AY2017-18 Term 2**

### **Phase 3: Final**

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## **Content**

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- Final presentation
- Practice Research Paper
- Analytics Practicum Poster
- Analytics Practicum Artefact

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## Important date

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- 14<sup>th</sup> March 2018, 23:59 - Undergraduate Seminar on Data Analytics (USDA): Title and Abstract of the presentation
- 30<sup>th</sup> March 2018, 23:50 - USDA draft poster and paper for sponsor approval.
- 9<sup>th</sup> April 2018, 10:00 – USDA final poster and paper for reproduction.
- 12-13<sup>th</sup> April 2018, 9:00am-6:00pm: USDA
- 13<sup>th</sup> April 2018, 6:30pm-9:00pm: USDA poster night
- 15<sup>th</sup> April 2018, 23:59 - Final project artifact and wiki

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## USDA Abstract

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- An appropriate title
- Authors' name
- Abstract content
  - Overview, including motivation of the research
  - Data and methodology
  - Key findings and recommendations
- Not more than 300 words

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## Guide on Final Presentation

- ([http://www.kumc.edu/SAH/OTEd/jradel/Preparing\\_talks/103.html](http://www.kumc.edu/SAH/OTEd/jradel/Preparing_talks/103.html)).
- How to Convert Your Paper into a Presentation ([http://twp.duke.edu/uploads/media\\_items/paper-to-talk.original.pdf](http://twp.duke.edu/uploads/media_items/paper-to-talk.original.pdf))

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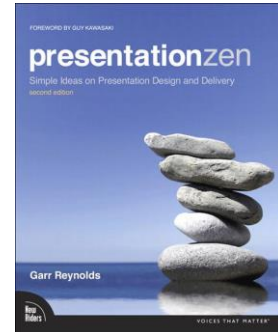
## Guide on UCDA presentation

- A novice's guide to preparing and presenting an oral presentation at a Scientific Conference (<https://ajp.paramedics.org/index.php/ajp/article/view/151/166>)

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## How to create presentation slides

- Presentation Zen is highly recommended, especially ([http://presentationzen.blogspot.com/2005/09/whats\\_good\\_powe.html](http://presentationzen.blogspot.com/2005/09/whats_good_powe.html)).
- How to Create Research Presentation ([http://mcnair.ucsb.edu/documents/HowtoCreateaResearchPresentation\\_000.pdf](http://mcnair.ucsb.edu/documents/HowtoCreateaResearchPresentation_000.pdf))

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## Presentation grading criteria

- Clarity and organization of the oral presentation
- Relevance and clarity of presentation material (poster and live demo, etc)
- Quality of argument used to justify why the solution is worthy of consideration
- Practicality, quality, originality and relevance of analytical solution

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## Poster specification

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- Size = ISO A1 (594 × 841mm or 23.39 × 33.11inci)
- Resolution = 300dpi or above
- File format = jpeg
- <https://support.microsoft.com/en-us/kb/827745>

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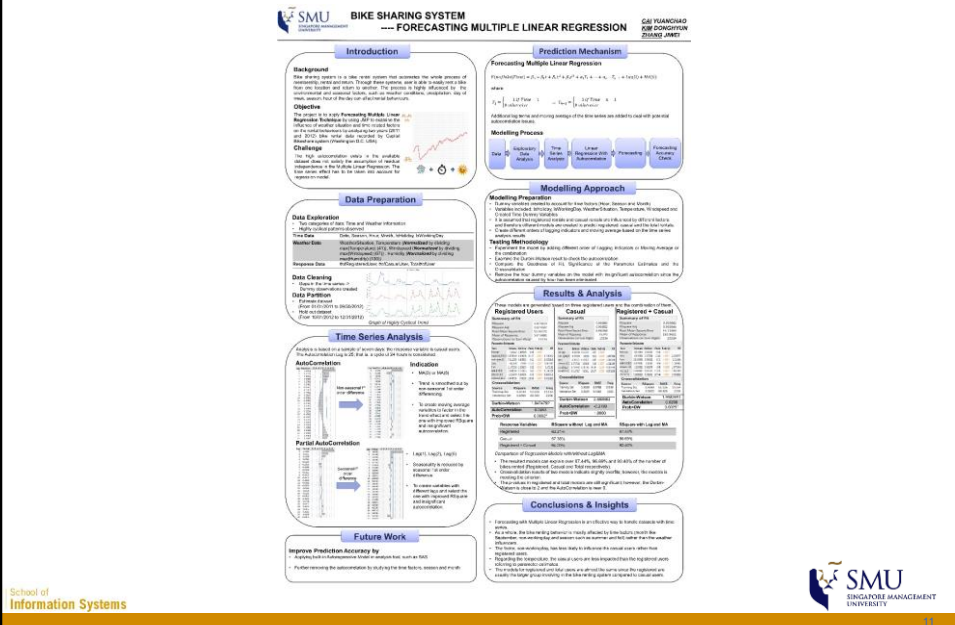
## Guide on Better Poster

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- Critique on Academic Poster  
<http://betterposters.blogspot.sg/search/label/critiques>
- Creating Effective Poster Presentations  
(<https://www.ncsu.edu/project/posters/>)

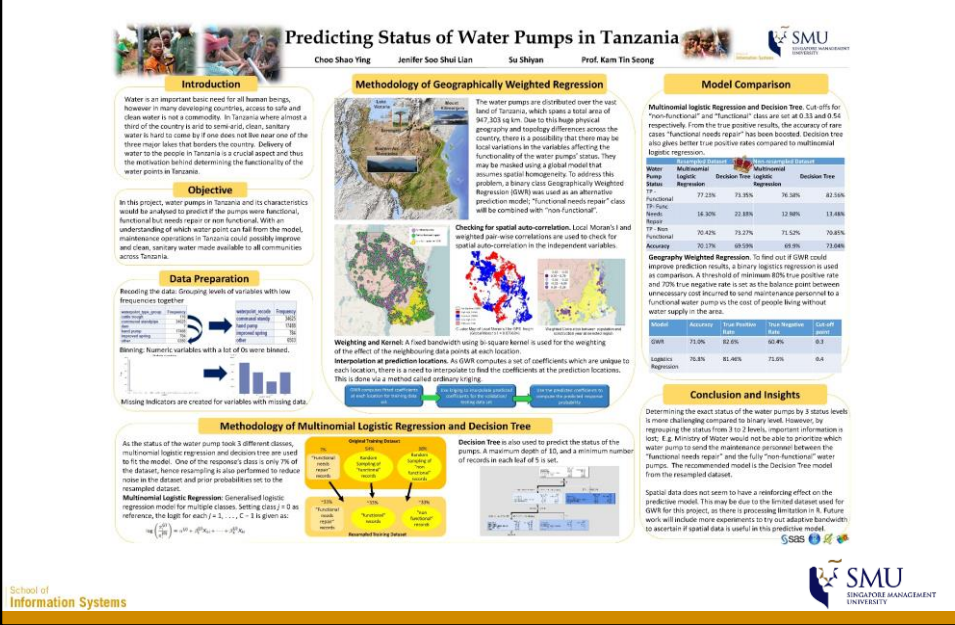
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# Sample Poster



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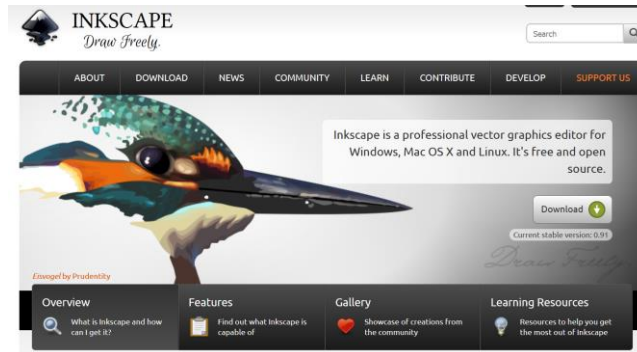
# Sample Poster



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## Inkscape

- A free and open-source vector graphics editor; it can be used to create or edit vector graphics such as illustrations, diagrams, line arts, charts, logos and complex paintings

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## Poster grading criteria

- Clear communication of key aspects of solution
- Clear communication of analytical approaches
- Clear managerial communication of analysis results
- Quality of the poster

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## Guide on writing practicum research report/paper

- Structure of a Data Analysis Report  
(<http://www.stat.cmu.edu/~brian/701/notes/paper-structure.pdf>)
- How to Write Data Analysis Reports  
(<https://statswithcats.wordpress.com/2013/09/19/how-to-write-data-analysis-reports-1/>)
- Writing a research article: advice to beginners  
(<http://intqhc.oxfordjournals.org/content/intqhc/16/3/191.full.pdf>)
- Basics of Research Paper Writing and Publishing  
(<http://dbis.rwth-aachen.de/~derntl/papers/misc/paperwriting.pdf>)
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## Guide on Citation Style

- IEEE Citation Reference  
(<http://www.ieee.org/documents/ieeecitationref.pdf>)

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## Practice Research Report

- Practice research is a form of academic research which incorporates an element of practice in the methodology or research output.
- Introduction: context-centric instead of technique-centric
- Literature review
- Analysis process: use appropriate visual to show the process, provide useful tips and tricks on data preparation.
- Analytical methods: “layman friendly” explanation.
- Results and Discussion: go beyond accuracy and precision, related the analysis results to real world usage.

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## Final deliverable check list

- Final presentation slides: upload onto LMS Dropbox 24hr before the presentation
- By 15<sup>th</sup> April 2018
  - Project wiki: completed all the update and links
  - Analytics practicum poster: upload onto LMS Dropbox
  - Analytics practicum artifact: raw data, analytical data, codes, etc upload onto LMS Dropbox
  - Analytics practicum report/UGDA paper: upload on LMS Dropbox

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## Grading

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- Undergraduate Conference on Data Analytics: Abstract 5%
- Undergraduate Conference on Data Analytics: Poster 5%
- Undergraduate Conference on Data Analytics: Full paper 20%
- Undergraduate Conference on Data Analytics: Presentation 15%
- Final project artifact 10%
- Project wiki 5%