



**ICT 3020 (2022/23)**

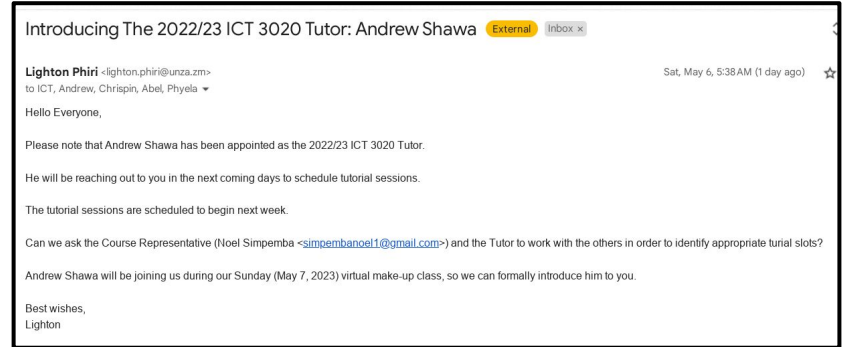
**Fundamentals of Software Engineering**

**Module 3: Project Proposal  
Documentation and Presentation**

**Lighton Phiri <[lighton.phiri@unza.zm](mailto:lighton.phiri@unza.zm)>**  
**Department of Library & Information Science**  
**University of Zambia**  
**<https://bit.ly/3uI5u5V>**

# Announcements—May 7, 2023

- **Scheduled Group-Based Assignments**
  - Assignment #06 and #07 due on May 26 2023 at 23H59
- **Tutorial Sessions**
  - Tutoring to commence in week of May 8 2023
  - Past assessment reviews
  - Group project walkthrough



# Lecture Outline

- Introduction
- The Research Process
- Proposal Document Structure
- Formatting Guidelines
- Proposal Presentation Guidelines
- Exemplars

# Lecture Outline

- Introduction
- The Research Process
- Proposal Document Structure
- Formatting Guidelines
- Proposal Presentation Guidelines
- Exemplars

# Introduction (1/2)

High Scoring Projects

Proposal Document

Proposal Presentation

73%

**MAR: Makeup-Assessment Requisition Plugin**

<p><b>Jackson Mwanaumo</b>                  Department of Library and Information Science                  University of Zambia                  Lusaka, Zambia                  2017012981@student.unza.zm</p>	<p><b>Mary Mukuka</b>                  Department of Library and Information Science                  University of Zambia                  Lusaka, Zambia                  2017012965@student.unza.zm</p>	<p><b>Mwelwa Nkhata</b>                  Department of Library and Information Science                  University of Zambia                  Lusaka, Zambia                  14113104@student.unza.zm</p>
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**KEYWORDS**  
 Make-up assessments, Moodle plugin, computer-mediated communication.

**1.0 PROJECT DESCRIPTION**  
 Students have many reasons for requesting makeup assessments and the process of requesting them have remained stagnant for years and have not changed despite technological advancements that could help them. This may hinder them from making a conventional

lighton.phiri@unza.zm: (73/100)

**## Content Quality**

- \* Project Description (10/10)
- \* Problem Statement (7/10)
- \* Research Questions (6/10)
- \* Related Work (4/10)
- \* Methodology (10/10)
- \* Ethics (3/5)

**## Project Management**

- \* Work Breakdown Structure (5/5)
- \* Project Timeline (7/10)
- \* Risk Management (10/10)
- \* Resources (0/5)

**## Style and Formatting**

- \* Template (2/3)
- \* Formatting (1/3)
- \* Language and Grammar (2/2)
- \* Citation and Referencing (1/2)

**## Penalties**

- \* No Collaboration in Shared Google Drive: -1

lighton.phiri@unza.zm: \* Careful with template daggga at the end of Jackson Mwanaumo's name should be removed

\* This in no way affects the score of this document, but, did you sit and think about the order of na

High Scoring Project Document

# Introduction (2/2)

+	High Scoring Projects	
+	Proposal Document	
+	1 [73%] Project	
+	2 [68%] Project	
+	Proposal Presentation	
+	1 [82%] Project	
+	2 [77%] Project	

82%

## Proposal presentation

RESEARCH TOPIC: TO CREATE A CALENDAR CONFLICT RESOLVER WHICH WILL HELP THE INSTRUCTOR RESOLVE THE PROBLEM OF THE TIMETABLE CLASHING.

Presentation by: Ilinanga Imakando, David Pungwa, Bydon Simukoko, Danny Siababa & Mutune Chaibela.

**High Scoring Project Proposal Presentation**

lighton.phiri@unza.zm: (82/100)

## Presentation Slides

- \* Available (5/5)
- \* Content (20/20)
- \* Quality (13/15)
- \* Visualisations (0/5)
- \* Comprehensiveness (10/10)
- \* Collaboration (5/5)

General comments:

- \* No collaboration in the Shared Google Drive
- \* Google Slides document missing in the Shared Google Drive
- \* No visualisations in the presentation slides

## Screencast

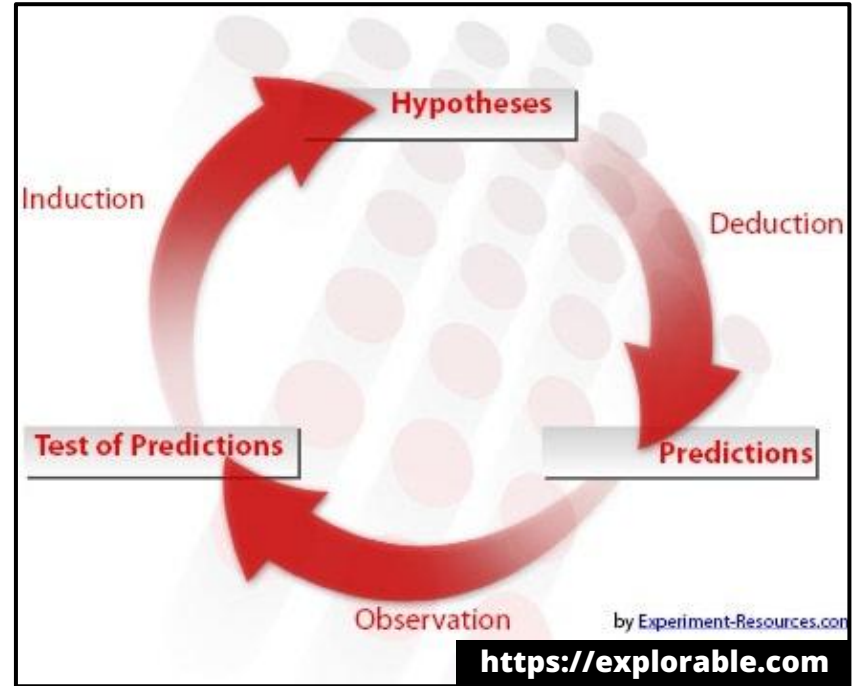
- \* Available (5/5)
- \* Content (10/10)
- \* Quality (6/10)
- \* Comprehensiveness (5/10)
- \* Collaboration (4/5)

# Lecture Outline

- **Introduction**
- **The Research Process**
  - Research Life Cycle
  - Literature Review
- **Proposal Document Structure**
- **Formatting Guidelines**
- **Proposal Presentation Guidelines**
- **Exemplars**

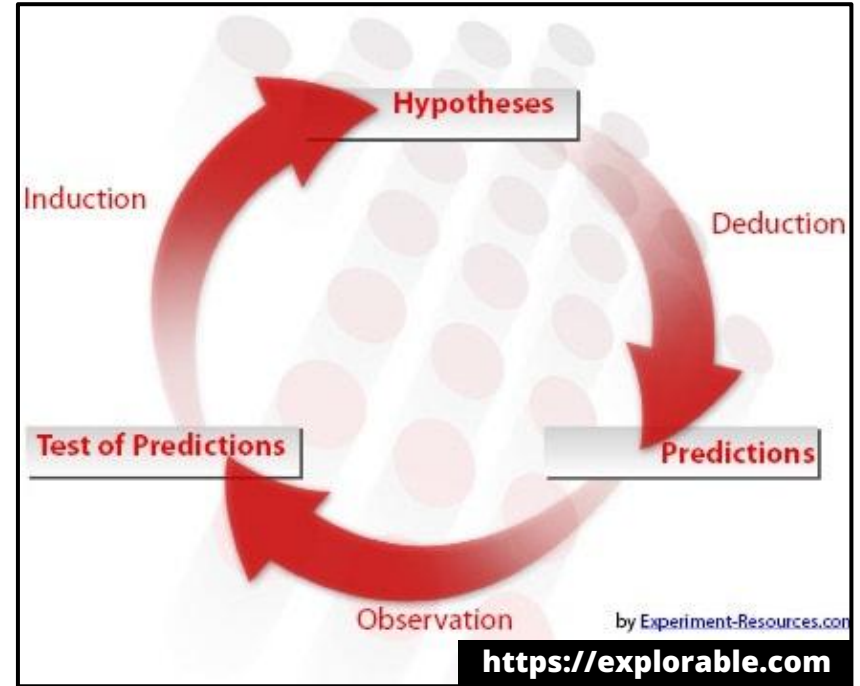
# The Research Life Cycle (1/2)

- Using the scientific method, the research process begins with problem identification
  - Typically, you start off by making an observation
  - Observation linked to problem identification
- Research activities follow through after problem identification



# The Research Life Cycle (1/2)

- **Research activities**
  - Literature search and review of previous/related work
  - Do the actual research work
  - Write up research report
- **Actual work for a software engineering centric research project involves**
  - Design and implementation of artefact
  - Experimentation



# Recap—The Research Process

- **Research Life Cycle**
- **Literature Review**
- **Artefact Design and Implementation**
- **Evaluation**
- **Reporting**

# Lecture Outline

- **The Research Process**
- **Proposal Document Structure**
  - Project Title
  - Project Description
  - Problem Statement
  - Related Work
  - Proposed Solution
  - Anticipated Outcome
  - References
- **Formatting Guidelines**
- **Proposal Presentation Guidelines**

# Proposal Document Structure: Project Title

**Insert Your Title Here\***

Insert Subtitle Here

FirstName Surname<sup>†</sup>  
Department Name  
Institution/University Name  
City State Country  
email@email.com

FirstName Surname  
Department Name  
Institution/University Name  
City State Country  
email@email.com

FirstName Surname  
Department Name  
Institution/University Name  
City State Country  
email@email.com

- **The proposal document must include all important meta-information—title and project team members**
  - The project title should reflect what you are proposing to do: refer to ICT 2034 for details on coming up with a good research title
  - You must list all project team members and their contact details

# Proposal Document Structure: Project Description

- **The project description is synonymous to an introduction and as such, must comprise of all important aspects of an introduction**
  - Background contextualisation
  - Motivation for undertaking the project
  - Significance of the topic being explored
- **This is essentially a high-level description of the problem domain being explored**

# Proposal Document Structure: Problem Statement

- The ICT 3010 Group Project is a “research” project, however, there are minimal differences between a research proposal and an industry-centric software development project
- The problem statement that clearly outline the problem being explored
  - What is the broad objective of the project?
  - What are the specific objects?
  - What are the research questions that will guide the project?
  - Because this is a software engineering centric project, you must state the preliminary requirements associated with the project

# Proposal Document Structure: Related Work (1/5)

- **Demonstrate a comprehensive grasp of existing work and literature linked to your chosen topic**
- **comprehensively describe similar work, focusing on flaws and gaps in existing work**
  - Do not just describe literature, rather provide critical reviews of existing work
- **Ensure that you conduct an exhaustive search**
  - Google Scholar
  - ACM Digital Library
  - CiteSeer
  - Aminer

# Proposal Document Structure: Related Work (2/5)

The screenshot shows a Google Scholar search results page. The search query is "Software Engineering and Project Management". The page displays several search results, each with a title, author information, a brief description, and citation statistics. The results are sorted by relevance. The first result is a book titled "Quality software project management" by RT Futrell, LI Shafer, and DF Shafer. The second result is a citation for "Software engineering project management" by RH Thayer and E Yourdon. The third result is a paper titled "Major issues in software engineering project management" by RH Thayer, AB Pyster, and RC Wood. The fourth result is a book titled "Project management maturity model" by JK Crawford. The page also includes a sidebar with filters for "Any time" (ranging from "Since 2020" to "Custom range..."), "Sort by relevance" (with "Sort by date" as an option), and checkboxes for "include patents", "include citations", and "Create alert". The top of the page shows the Google Scholar logo, the search bar, and a user profile icon. The bottom of the page features a URL: <https://allafrica.com/stories/201003190510.html>.

Google Scholar

Software Engineering and Project Management

Articles About 3,190,000 results (0.12 sec)

My profile My library

Any time

Since 2020

Since 2019

Since 2016

Custom range...

Sort by relevance

Sort by date

include patents

include citations

Create alert

[BOOK] **Quality software project management** [HTML] acm.org

RT Futrell, LI Shafer, DF Shafer - 2001 - dl.acm.org

... If you are a professor or instructor of **software engineering**, this text will suffice for a semester-long course in **software engineering** plus **project management**. The bodies of knowledge for **project management**, **software engineering** ...

☆ 🔗 Cited by 256 Related articles All 5 versions

[CITATION] **Software engineering project management**

RH Thayer, E Yourdon - **Software engineering** ..., 1997 - IEEE Computer Society Press

☆ 🔗 Cited by 209 Related articles All 5 versions

**Major issues in software engineering project management**

RH Thayer, AB Pyster, RC Wood - ... on **Software Engineering**, 1981 - ieeexplore.ieee.org

**Software engineering project management** (SEPM) has been the focus of much recent attention because of the enormous penalties incurred during **software** development and maintenance resulting from poor **management**. To date there has been no comprehensive ...

☆ 🔗 Cited by 63 Related articles All 8 versions

[BOOK] **Project management maturity model**

JK Crawford - 2007 - Taylor & Francis

... FIGURE 2 PM Solutions' **Project Management** Maturity Model utilizes the PMBOK® Guide's knowledge areas and the **Software Engineering** Institute's five levels of maturity. **Project Management** Maturity Model LEVEL 3 Organizational Standards and Institutional

☆ 🔗 Cited by 377 Related articles All 12 versions

<https://allafrica.com/stories/201003190510.html>

# Proposal Document Structure: Related Work (3/5)

## Search by Subject

Artificial Intelligence, Machine Learning, Computer Vision, Natural language processing →	Information Systems, Search, Information Retrieval, Database Systems, Data Mining, Data Science →	Web, Mobile and Multimedia Technologies →
Society and the Computing Profession →	Applied Computing: Industry/Business, Physical Sciences, Life Sciences, Education, Law, Forensics, Arts/Humanities, Entertainment →	Graphics and Computer-Aided Design →
Networks and Communications →	Architecture, Embedded Systems and Electronics, Robotics →	Hardware, Power and Energy →
Human Computer Interaction →	Security and Privacy →	Software Engineering and Programming Languages →
Computational Theory, Algorithms and Mathematics →		

## ACM Authors



Madhava Krishnan Ramanathan  
Virginia Polytechnic Institute and State University



Jiajing Guo  
Cornell University



Ruth Okoil



<https://dl.acm.org>

# Proposal Document Structure: Related Work (4/5)

The screenshot shows the CiteSeerX search interface. At the top, there are navigation tabs for 'Documents', 'Authors', and 'Tables', along with links for 'Donate', 'DMCA', 'MetaCart', 'Sign up', and 'Log in'. The CiteSeerX logo is prominently displayed on the left. A search bar on the right contains the query 'software engineering and project management'. Below the search bar, there is a checkbox for 'Include Citations' and a link for 'Advanced Search'. The search results are displayed in a list format. The first result is titled 'On Dynamic Relationships between Software Engineers, IT Project Managers, and Customers' by Dariusz Jemielniak, Dominika Latusek, Dominika Latusek, and Dariusz Jemielniak, published in 2007. The second result is titled 'No Silver Bullet: Essence and Accidents of Software Engineering' by Frederick P. Brooks, published in 1987. On the right side of the page, there is a 'Tools' section with a 'Sorted by:' dropdown menu set to 'Relevance' and a 'Try your query at:' section with several social media and sharing icons.

Documents Authors Tables Donate DMCA MetaCart Sign up Log in

# CiteSeer<sup>x</sup>

software engineering and project management  

Include Citations [Advanced Search](#)

Results 1 - 10 of 385,283 [Next 10 →](#)

[On Dynamic Relationships between Software Engineers, IT Project Managers, and Customers](#)  
by Dariusz Jemielniak, Dominika Latusek, Dominika Latusek, Dariusz Jemielniak , 2007  
"... www.technology-journal.com ..."  
[Abstract](#) - [Add to MetaCart](#)




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[No Silver Bullet: Essence and Accidents of Software Engineering](#)  
by Frederick P. Brooks - *IEEE Computer* , 1987  
"... Of all the monsters that fill the nightmares of our folklore, none terrify more than werewolves, because they transform unexpectedly from the familiar into horrors. For these, one seeks bullets of silver that can magically lay them to rest. The familiar software project, at least as seen by the nont ..."  
[Abstract](#) - [Cited by 802 \(0 self\)](#) - [Add to MetaCart](#)

Tools

Sorted by:  
[Relevance](#) ▼

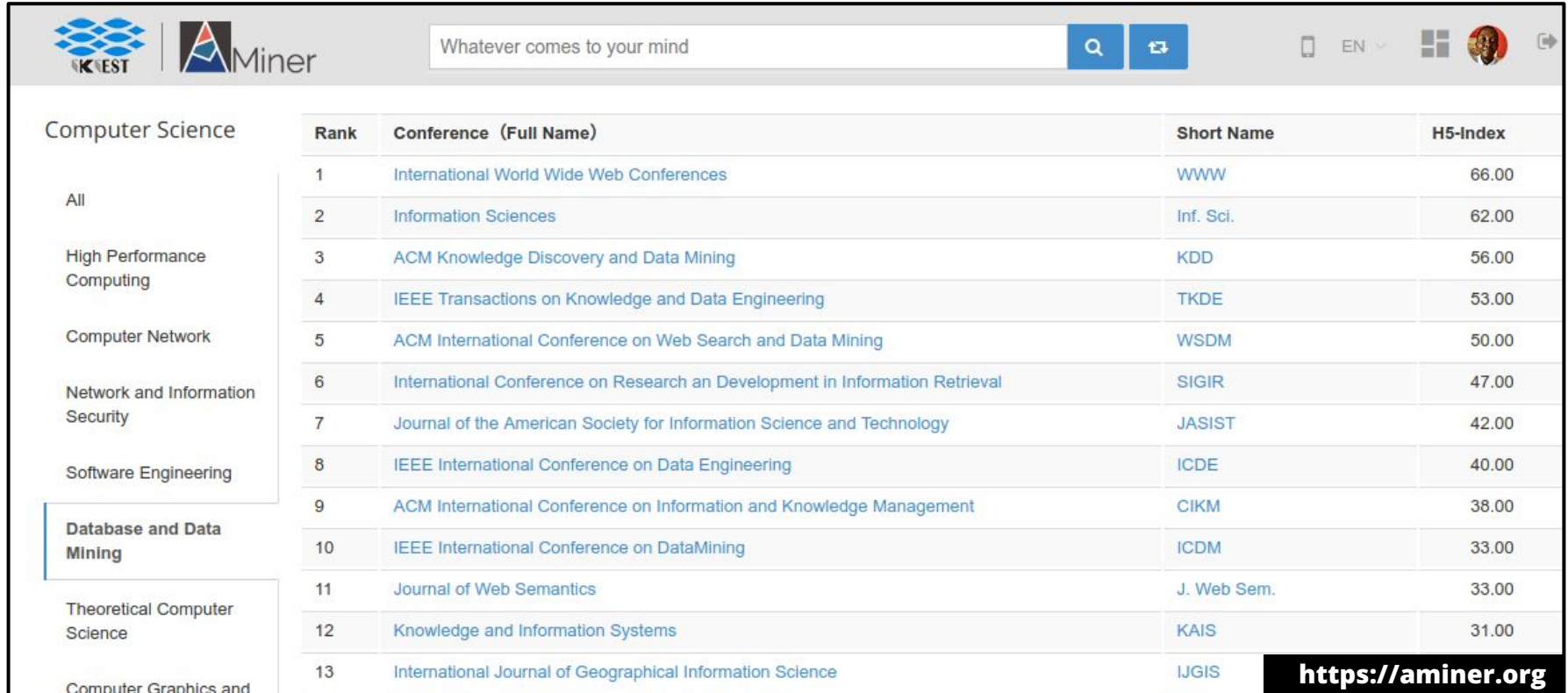
Try your query at:

<https://citeseerx.ist.psu.edu>

# Proposal Document Structure: Related Work (5/5)



Rank	Conference (Full Name)	Short Name	H5-Index
1	International World Wide Web Conferences	WWW	66.00
2	Information Sciences	Inf. Sci.	62.00
3	ACM Knowledge Discovery and Data Mining	KDD	56.00
4	IEEE Transactions on Knowledge and Data Engineering	TKDE	53.00
5	ACM International Conference on Web Search and Data Mining	WSDM	50.00
6	International Conference on Research an Development in Information Retrieval	SIGIR	47.00
7	Journal of the American Society for Information Science and Technology	JASIST	42.00
8	IEEE International Conference on Data Engineering	ICDE	40.00
9	ACM International Conference on Information and Knowledge Management	CIKM	38.00
10	IEEE International Conference on DataMining	ICDM	33.00
11	Journal of Web Semantics	J. Web Sem.	33.00
12	Knowledge and Information Systems	KAIS	31.00
13	International Journal of Geographical Information Science	IJGIS	

<https://aminer.org>

# On How to Read Academic Literature

ACM DL DIGITAL LIBRARY University of Cape Town [My Author Page](#) [My Binders](#) SIGN OUT: **Lighton Phiri**

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## How to read a paper

Full Text:  [PDF](#)

Author: [S. Keshav](#) [University of Waterloo](#)

Published in:

-  Newsletter
-  [ACM SIGCOMM Computer Communication Review archive](#)

 [Bibliometrics](#)

 2007 Article



### Tools and Resources

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-  TOC Service:
  -  [Email](#)
  -  [RSS](#)

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## Reading a computer science research paper

Full Text:  [PDF](#)

Author: [Philip W.L. Fong](#) [University of Calgary, Calgary, Alberta, Canada](#)

Published in:

-  Newsletter
-  [ACM SIGCSE Bulletin archive](#)
- Volume 41 Issue 2, June 2009
- Pages 138-140

 [Bibliometrics](#)

- Citation Count: 4
- Downloads (cumulative): 2,025

 2009 Article



### Tools and Resources

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-  TOC Service:
  -  [Email](#)
  -  [RSS](#)

<https://dl.acm.org>

# Proposal Document Structure: Proposed Solution (1/2)

- **Provide a high-level comprehensive overview of the proposed solution**
- **Outline the methodological appropriate you plan to use**
  - Development method to be used, including justification for the choice
  - Success criteria and how evaluation of the project will be conducted
- **Discuss all ethical considerations associated with the project**

# Proposal Document Structure: Proposed Solution (2/2)

- **Clearly outline all relevant project management aspects**
  - Work Breakdown Structure
  - Gantt Chart
  - RACI Matrix
  - Required Resources
  - Risk Management

# Tentative Proposal Document Structure

- **Model Proposal Document Structure**
  - [Project Title]
  - 1. Project Description
    - 1.x Problem Specification Details
  - 2. Related Work
  - 3. Proposed Solution
    - 3.x Project Management Details
  - 4. Anticipated Outcome
  - 5. References
  - [Appendices]

# Recap—Proposal Document Structure

- **Project Title**
- **Project Description**
- **Problem Statement**
- **Related Work**
- **Proposed Solution**
- **Anticipated Outcome**
- **References**

# Lecture Outline

- **The Research Process**
- **Proposal Document Structure**
- **Formatting Guidelines**
  - ACM Proceedings Format
  - Tooling
- **Proposal Presentation Guidelines**
- **Exemplars**

# Proposal Document Must Be Formatted Using ACM Proceedings Format (1/3)



The screenshot shows the ACM website's navigation menu with 'PUBLICATIONS' highlighted. Below the menu, there is a breadcrumb trail: 'Home > Publications > ACM Master Article Template'. The main content area features the title 'ACM Master Article Template' and a sub-heading 'New Workflow for ACM Publications'. A paragraph of text describes the change in archive format, mentioning 'content' and 'presentation'. A black box highlights the URL <https://www.acm.org/publications/proceedings-template>.

- **Use the Association for Computing Machinery (ACM) proceedings format.**
  - No other formats are permitted.
  - Word and LaTeX templates are available on the ACM Website

# Proposal Document Must Be Formatted Using ACM Proceedings Format (2/3)

**Insert Your Title Here\***

Insert Subtitle Here

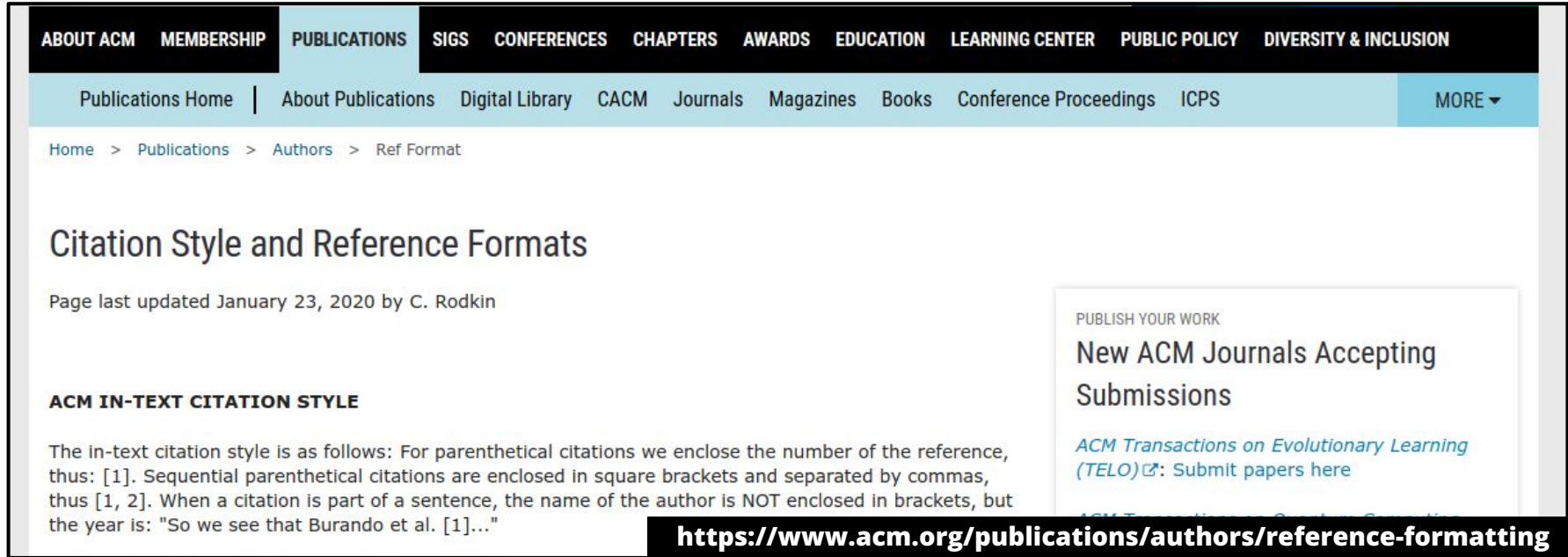
FirstName Surname<sup>†</sup>  
Department Name  
Institution/University Name  
City State Country  
email@email.com

FirstName Surname  
Department Name  
Institution/University Name  
City State Country  
email@email.com

FirstName Surname  
Department Name  
Institution/University Name  
City State Country  
email@email.com

- **Ensure that you use available templates**
  - Font face, font sizes must be adhered to
  - Specifics of how headers and captions should be applied must be strictly followed
  - Template makes use of double columns

# Proposal Document Must Be Formatted Using ACM Proceedings Format (3/3)



The screenshot shows the ACM Publications website. The navigation bar includes links for ABOUT ACM, MEMBERSHIP, PUBLICATIONS (highlighted), SIGS, CONFERENCES, CHAPTERS, AWARDS, EDUCATION, LEARNING CENTER, PUBLIC POLICY, and DIVERSITY & INCLUSION. Below the navigation bar, there are links for Publications Home, About Publications, Digital Library, CACM, Journals, Magazines, Books, Conference Proceedings, ICPS, and a MORE dropdown menu. The breadcrumb trail reads: Home > Publications > Authors > Ref Format. The main heading is "Citation Style and Reference Formats". Below this, it says "Page last updated January 23, 2020 by C. Rodkin". The section is titled "ACM IN-TEXT CITATION STYLE". The text explains the in-text citation style: "The in-text citation style is as follows: For parenthetical citations we enclose the number of the reference, thus: [1]. Sequential parenthetical citations are enclosed in square brackets and separated by commas, thus [1, 2]. When a citation is part of a sentence, the name of the author is NOT enclosed in brackets, but the year is: "So we see that Burando et al. [1]..."". On the right side, there is a box titled "PUBLISH YOUR WORK" with the text "New ACM Journals Accepting Submissions" and a link "ACM Transactions on Evolutionary Learning (TELO) Submit papers here". At the bottom of the screenshot, a URL is displayed: <https://www.acm.org/publications/authors/reference-formatting>

- Citation and referencing styles must conform to the ACM reference style

# On The Importance of Using Reference Management Software (1/4)

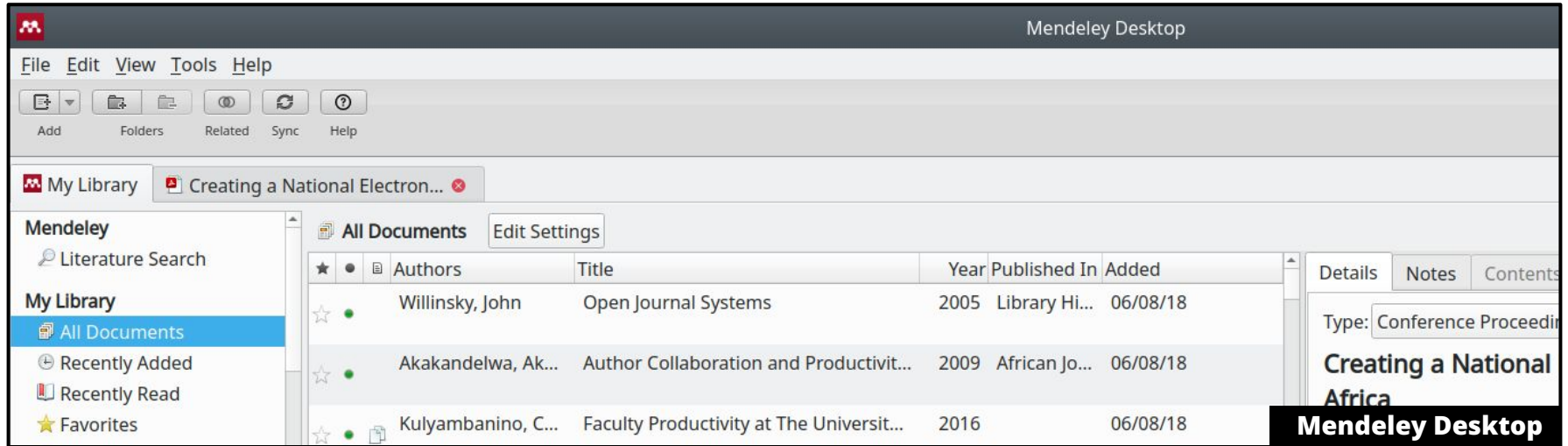
- **As you conduct your literature review to identify related works to include in the Related Work section, you want to automate the workflow by making use of a reference management software**
  - Reference manager provide a mechanism to store and organise literature
  - Citation and referencing of literature is automated, drastically reducing the chances of errors during citation and referencing

# On The Importance of Using Reference Management Software (2/4)

Software	Developer	First public release	Latest stable release date	Latest stable version	Cost (USD)	Free software	License	Notes
<b>Bebop</b>	ALaRI Institute	2007-11-08	2009-11-10	1.1	Free	Yes	BSD	web-based BibTeX front-end (Apache, PHP, MySQL)
<b>BibBase</b>	Christian Fritz	2005	2013-07	v3	Free	No	Proprietary	centrally hosted website, intended for publication pages
<b>BibDesk</b>	BibDesk developers	2002-04	2019-06-03	1.7.1	Free	Yes	BSD	BibTeX front-end + repository; Cocoa-based; integration with Spotlight
<b>Bibioscape</b>	CG Information	1997	2015-06-22	10.0.3.6	US\$79-299 <sup>[1]</sup>	No	Proprietary	ODBC; web access in Pro ed; optional client/server; discontinued?
<b>BibSonomy</b>	University of Kassel	2006-01	2018-07-30	3.8.13	Free	Yes	AGPL, GPL, LGPL <sup>[2]</sup>	centrally hosted website
<b>Bibus</b>	Bibus developers	2004-06-03	2013-05-23	1.5.1	Free	Yes	GNU GPL	discontinued?
<b>Bookends</b>	Sonny Software	1988 (Mac) / 1983 (Apple II+)	2019-06-22	13.2.4 <sup>[3]</sup>	US\$59.99 <sup>[1]</sup>	No	Proprietary	Desktop & iOS synced via iCloud, integrated web search, pdf download, auto-completion, Word plugin, BibTex support, PDF annotations stored as notes
<b>Citationsy</b>	Citationsy	2018-01-	2020-02-		US\$5-25 / Free Basic Version <sup>[4]</sup>	No	Proprietary	Web, iOS and Android; Chrome Extensions

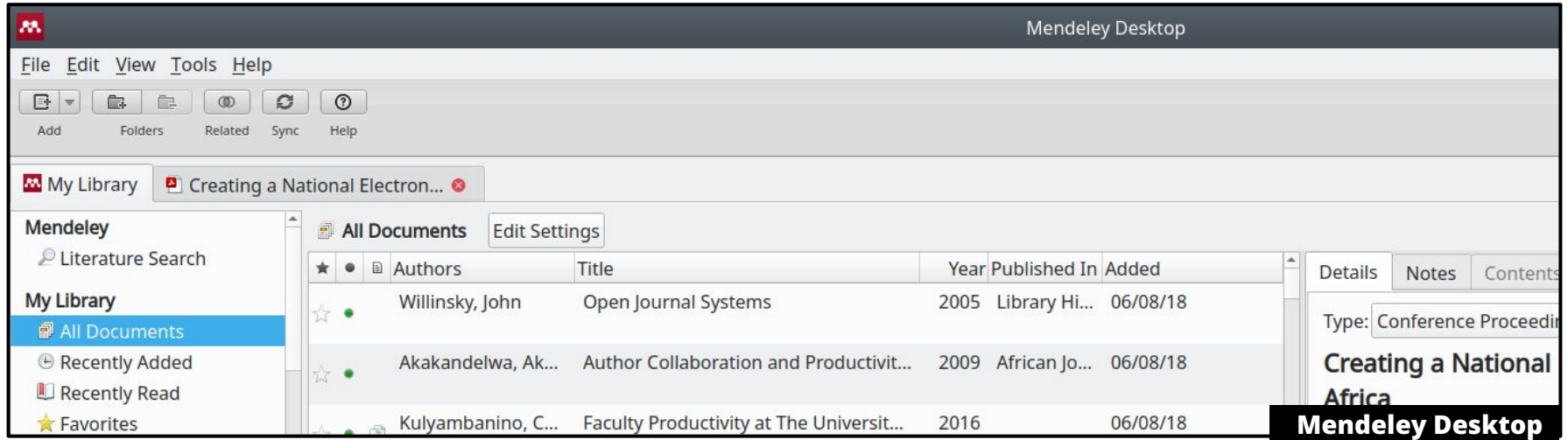
[https://en.wikipedia.org/wiki/Comparison\\_of\\_reference\\_management\\_software](https://en.wikipedia.org/wiki/Comparison_of_reference_management_software)

# On The Importance of Using Reference Management Software (3/4)



- **You want to check out Mendeley Desktop**
  - Automated synchronisation to the cloud, bookmarklet, effective annotation of library items

# On The Importance of Using Reference Management Software (4/4)



- **Short demonstration of Mendeley Desktop**
  - Citation and referencing
  - Annotation
  - Synchronisation

# Recap—Formatting Guidelines

- ACM Proceedings Format
- Tooling

# Lecture Outline

- **The Research Process**
- **Proposal Document Structure**
- **Formatting Guidelines**
- **Proposal Presentation Guidelines**
  - Communicating Ideas
  - Presentation Structure
  - Presentation Slides Layout
  - Tooling
  - Group Project Presentation
- **Exemplars**

# **It is Important to Effectively Communicate Ideas**

- **Communicating ideas is extremely important as it fosters the sharing of ideas and teaches how to work as part of a larger team**
  - To get support and advice from experienced individuals
  - To develop communication skills, an extremely useful skill
  - To learn of new developments
- **You must view the ICT 3020 proposal presentation in a positive light**
  - Practicing how to tackle larger complex problems
  - A forum for feedback on what you are working toward
  - To learn interpersonal skills

# **Presentations Must Focus on the Important Aspects of Message Conveyed**

- **Focus on the main idea and the importance of the idea [...]**  
**Throughout the presentation, focus on the “golden thread”**
  - Exclude the gory details of your idea
- **You must always anticipate questions**
  - Research your audience’s background and the venue
  - The presentation must be structured such that both non-experts and experts are able to follow through
- **Generic structure should ensure that you tell a coherent story**
  - Background -> Context -> Main Ideas -> [Specific Details] -> Conclusion

# Appropriate Presentation Slide Layout for Effective Talks (1/2)

- Fundamentally, presentation slides are meant to be cues to help you remember what you wish to talk about
- In addition, the slides are meant to draw people's attention to the talk
- Some techniques for effective presentation slides include
  - Use text sparingly: avoid too much text
  - Include a lot of graphs, charts, plots and pictures
  - Allow about 2-3 minutes per slide
  - About 7-15 bullet points at most
  - Avoid content that will require a lot of mental effort for audience—code and mathematical equations

# Appropriate Presentation Slide Layout for Effective Talks (2/2)

- **Title page must comprise of all important information**
  - Title of the presentation
  - Identifying information about the presenters (full names and Student IDs)
  - Date of the presentation
- **Optionally include a presentation outline to guide audience**
- **Ensure the slides are visually appealing and easy to follow**
  - Include slide numbers
  - Use high-quality graphs, plots, charts and images
  - Use appropriate font sizes

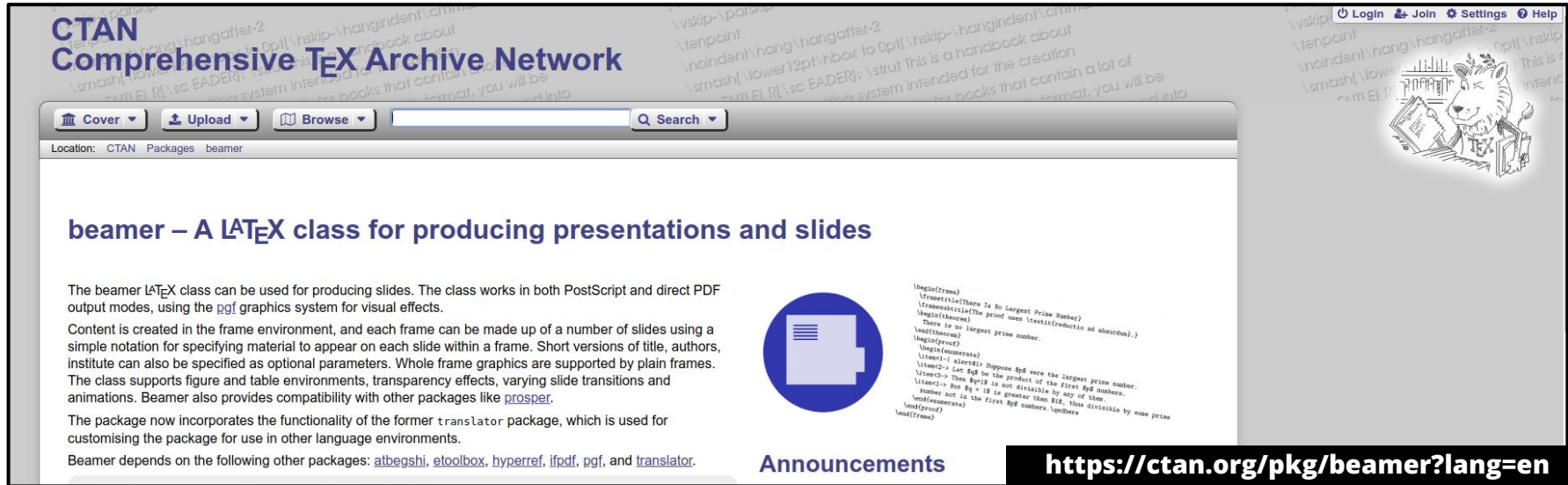
# More on Delivering Effective Talks

- **Show up a few minutes before the presentation**
- **Dress appropriately**
- **Ensure that the presentation slides are in the appropriate format**
  - PDF is universal: export your slides to PDF in the event you are unable to use your own machine
  - Use the correct aspect ratio: 4:3 vs 16:9. If uncertain, have two versions of the slides. 4:3 almost always works, though old
- **Rehearse your talk to ensure you do not go beyond the allocated time**
  - Practice, practice, practice [...]

# Ensure That You Use an Effective Tool for Creating Presentation Slides (1/6)

- **While there is a strict required in ICT 3020 regarding the type of tool to use for creating presentation slides, there are numerous options available**
  - Irrespective of the tool, use templates
- **The choice of the tool is dependant on a number of factors**
  - Learning curve in the event you are using the tool for the first time
  - Features for facilitating collaborative editing, when working as part of a team
  - Quality of aesthetics associated with the final output
  - Integration with other services

# Ensure That You Use an Effective Tool for Creating Presentation Slides (2/6)



**CTAN**  
Comprehensive  $\text{T}_{\text{E}}\text{X}$  Archive Network

Location: CTAN Packages beamer

## beamer – A $\text{L}_{\text{A}}\text{T}_{\text{E}}\text{X}$ class for producing presentations and slides

The beamer  $\text{L}_{\text{A}}\text{T}_{\text{E}}\text{X}$  class can be used for producing slides. The class works in both PostScript and direct PDF output modes, using the `pgf` graphics system for visual effects.

Content is created in the frame environment, and each frame can be made up of a number of slides using a simple notation for specifying material to appear on each slide within a frame. Short versions of title, authors, institute can also be specified as optional parameters. Whole frame graphics are supported by plain frames. The class supports figure and table environments, transparency effects, varying slide transitions and animations. Beamer also provides compatibility with other packages like [prospcr](#).

The package now incorporates the functionality of the former `translator` package, which is used for customising the package for use in other language environments.

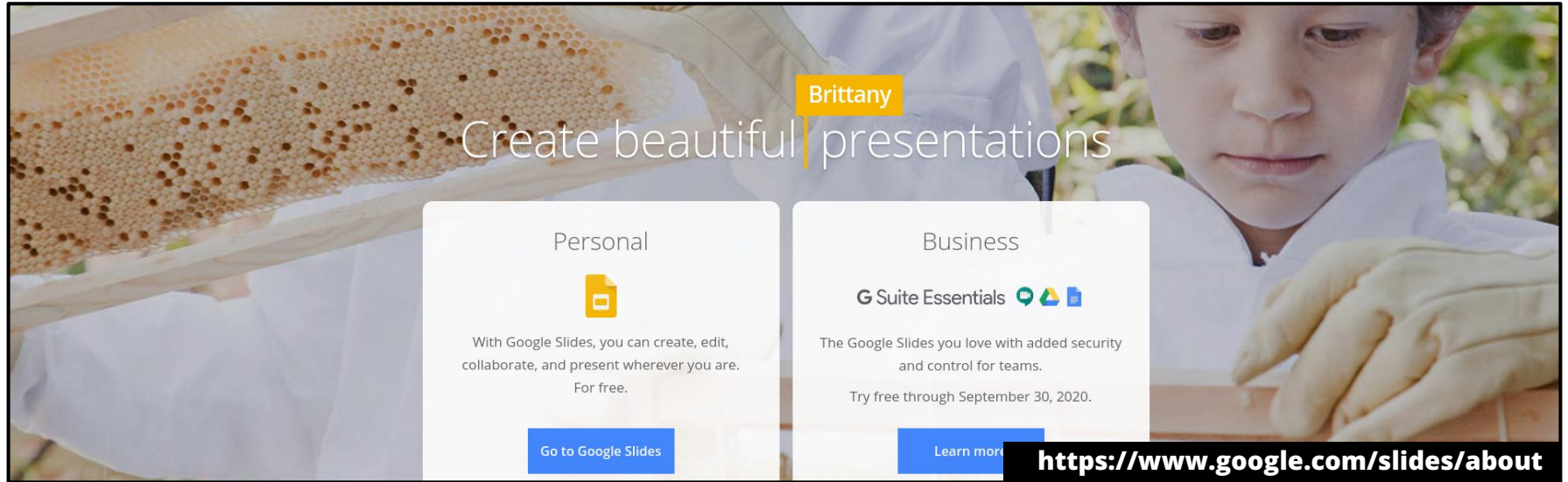
Beamer depends on the following other packages: [atbegshi](#), [etoolbox](#), [hyperref](#), [ifpdf](#), [pgf](#), and [translator](#).

**Announcements**

<https://ctan.org/pkg/beamer?lang=en>

- High quality and aesthetically pleasing output
- Appropriate for handling mathematical content
- Font consistency when integrating plots

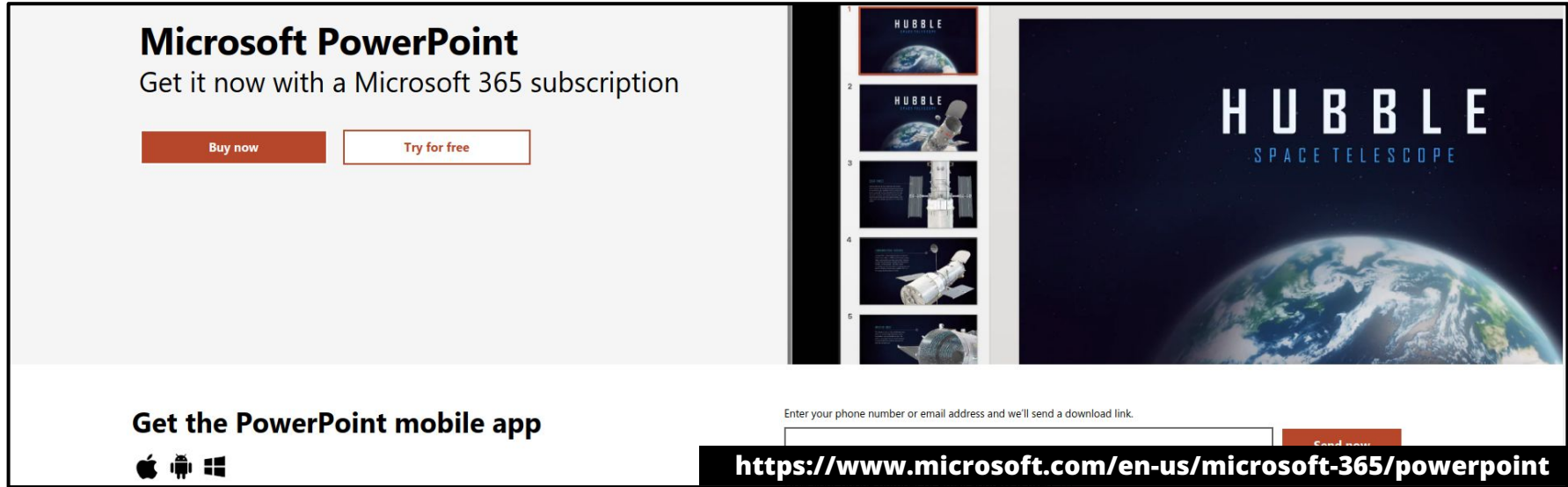
# Ensure That You Use an Effective Tool for Creating Presentation Slides (3/6)



The screenshot shows the Google Slides website interface. At the top, the name "Brittany" is displayed in a yellow box. Below it, the text "Create beautiful presentations" is visible. Two main options are presented: "Personal" and "Business". The "Personal" option features a yellow Slides icon and text stating: "With Google Slides, you can create, edit, collaborate, and present wherever you are. For free." Below this is a blue button labeled "Go to Google Slides". The "Business" option features the "G Suite Essentials" logo and text stating: "The Google Slides you love with added security and control for teams. Try free through September 30, 2020." Below this is a blue button labeled "Learn more". A black bar at the bottom right of the screenshot contains the URL <https://www.google.com/slides/about>.

- **Cloud-based service: automatic backups**
- **Suitable for collaborative work**
- **Easy to use**

# Ensure That You Use an Effective Tool for Creating Presentation Slides (4/6)



The screenshot shows a Microsoft PowerPoint advertisement. On the left, the text reads "Microsoft PowerPoint" and "Get it now with a Microsoft 365 subscription". Below this are two buttons: "Buy now" and "Try for free". In the center, a vertical strip of five slide thumbnails is shown, each with the word "HUBBLE" at the top and a different image of the Hubble Space Telescope. On the right, a large slide features the text "HUBBLE SPACE TELESCOPE" above a large image of Earth from space. At the bottom left, it says "Get the PowerPoint mobile app" with icons for Apple, Android, and Windows. At the bottom right, there is a form with the text "Enter your phone number or email address and we'll send a download link." and a "Send now" button. Below the form is a black bar with the URL <https://www.microsoft.com/en-us/microsoft-365/powerpoint>.

- Familiar with most end users
- Arguably easy to use

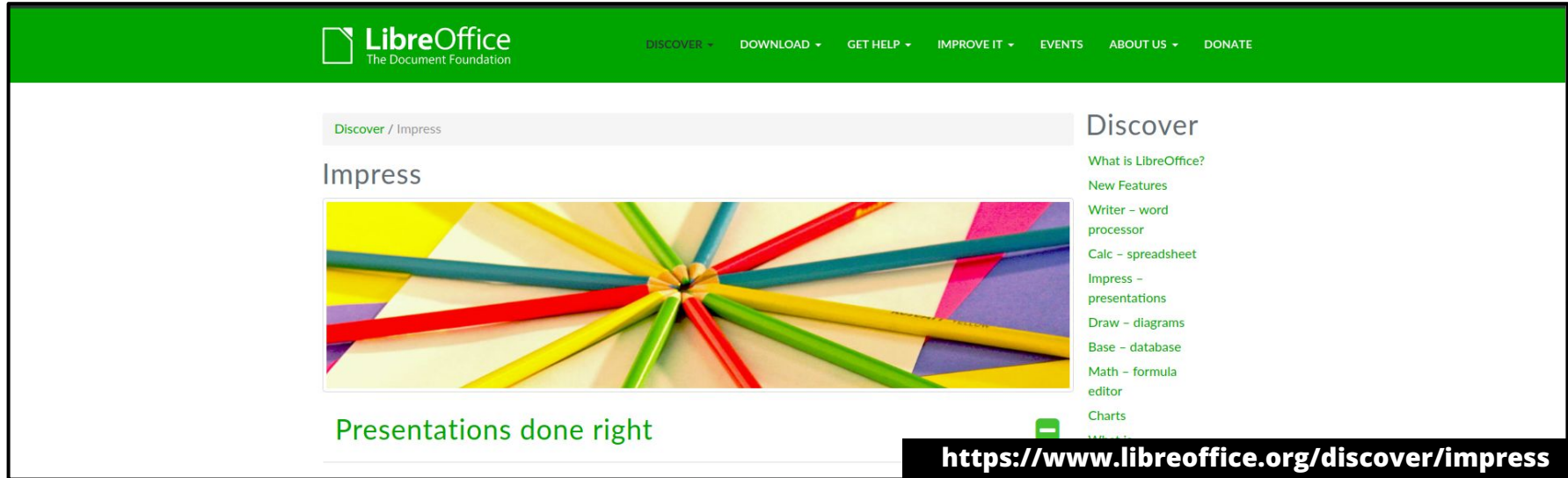
# Ensure That You Use an Effective Tool for Creating Presentation Slides (5/5)



The screenshot shows the LibreOffice Discover page for Impress. The page has a green header with the LibreOffice logo and navigation links: DISCOVER, DOWNLOAD, GET HELP, IMPROVE IT, EVENTS, ABOUT US, and DONATE. Below the header, there is a breadcrumb trail 'Discover / Impress' and the word 'Impress' in a large font. A central image shows several colorful pencils (yellow, red, green, blue, purple) arranged in a starburst pattern. Below the image, the text 'Presentations done right' is visible. On the right side, there is a 'Discover' sidebar with a list of links: 'What is LibreOffice?', 'New Features', 'Writer - word processor', 'Calc - spreadsheet', 'Impress - presentations', 'Draw - diagrams', 'Base - database', 'Math - formula editor', and 'Charts'. At the bottom right of the screenshot, a black box contains the URL <https://www.libreoffice.org/discover/impress>.

- Free and open source
- Plugin architecture enable integration with additional services

# Ensure That You Use an Effective Tool for Creating Presentation Slides (5/6)



The screenshot shows the LibreOffice Discover website. At the top is a green navigation bar with the LibreOffice logo and menu items: DISCOVER, DOWNLOAD, GET HELP, IMPROVE IT, EVENTS, ABOUT US, and DONATE. Below the navigation bar, the page title is "Discover / Impress". The main content area features a large image of several colorful pencils (yellow, red, green, blue, purple) arranged in a starburst pattern. Below the image, the text "Presentations done right" is visible. To the right of the main content is a sidebar with the heading "Discover" and a list of links: "What is LibreOffice?", "New Features", "Writer - word processor", "Calc - spreadsheet", "Impress - presentations", "Draw - diagrams", "Base - database", "Math - formula editor", and "Charts". At the bottom right of the screenshot, a black box contains the URL <https://www.libreoffice.org/discover/impress>.

- Free and open source
- Plugin architecture enable integration with additional services

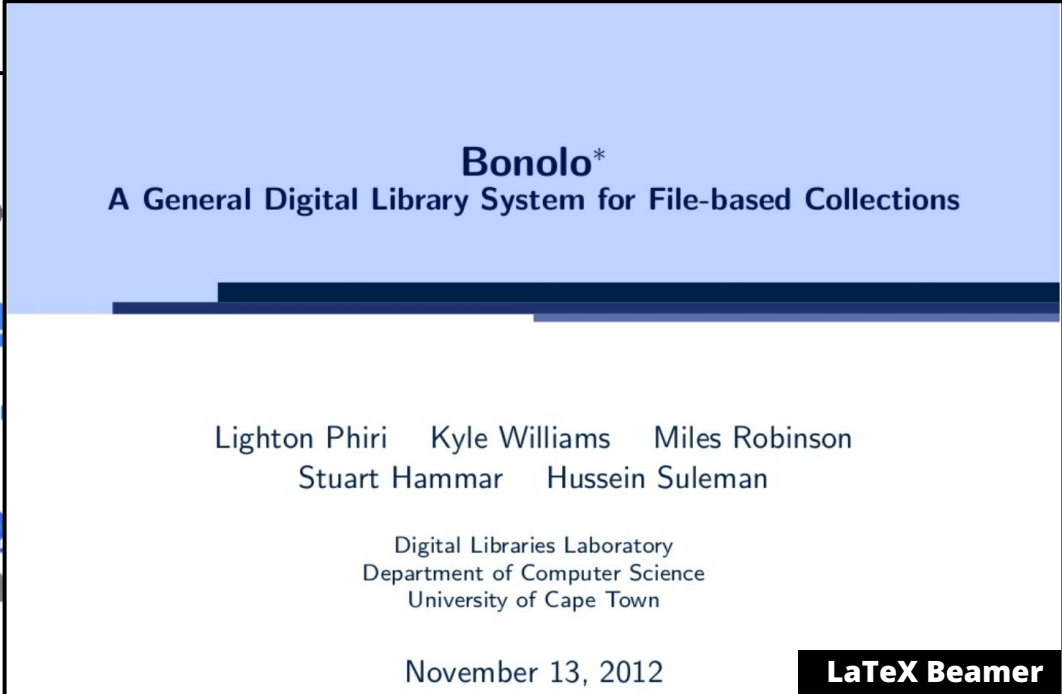
# Ensure That You Use an Effective Tool for Creating Presentation Slides (6/6)



**Building distributed  
services using OAI**

**Lighton Phiri** <[lighton.phiri@unza.ac.zm](mailto:lighton.phiri@unza.ac.zm)>  
**Department of Library and Information Science**  
**University of Zambia**

**Google Slides**



**Bonolo\***  
A General Digital Library System for File-based Collections

Lighton Phiri   Kyle Williams   Miles Robinson  
Stuart Hammar   Hussein Suleman

Digital Libraries Laboratory  
Department of Computer Science  
University of Cape Town

November 13, 2012

**LaTeX Beamer**

**June 21, 2018**

# Tentative Group Project Presentation Guidelines

- **Presentation slides must be prepared using Google Slides, collaboratively**
  - All Group Project team members must participate in the preparation of the document
- **You will have 10 minutes to present your proposal**
  - All Group Project team members must participate in the presentation
- **Submission**
  - Google Slides document should persist in the Shared Google Drive
  - A PDF document of the presentation to be uploaded to The Moodle

# Group Project Proposal Presentation Format (1/5)

- **Offline screencast of presentation**
  - Maximum of 10 minutes
  - Screencast must include collage of speaker and presentation slides
- **All group members must participate**
  - Marks will be deducted
- **Deadline: August 22, 2022**

## 2. Elements of the Proposal

### 2.1. Project Title

- The project title should be representative of the project associated with the proposal.
- The list of all project team members must be clearly indicated, including their affiliations and contact details (email addresses)

### 2.2. Project Description

- The proposal must include a high-level description of the problem, why it is important and/or motivation for proposing to explore the problem

### 2.3. Problem Statement

- The proposal must clearly state the broad objective of the proposed project
- The proposal must state the specific objectives
- The proposal must highlight the research questions

### 2.4. Related Work

- Critically synthesise important existing work that is related to your proposed solution

# Group Project Proposal Presentation Format (2/5)

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Please support the development with a donation. Thank you. **Donate**

VISA MASTERCARD AMERICAN EXPRESS

vokoscreenNG 3.0.4

Fullscreen HDMI1 : 1920 x 1080

Window

Area HDMI1 : 1920 x 1080  
320 x 200 CGA 16 : 10

Magnification 2

Countdown 0

Information

Record Time: 00:00:00  
Free disk space: 9010 MB  
Video size: KB

Start Stop

<https://linuxecke.volkoh.de/vokoscreen/vokoscreen.html>

# Group Project Proposal Presentation Format (3/5)

## OBS Studio

Latest Release    25.0.8 - April 26th

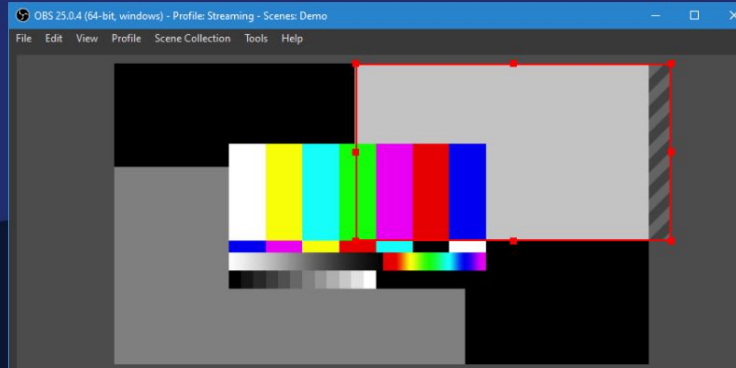
Windows

macOS 10.13+

Linux

Free and open source software for video recording and live streaming.

Download and start streaming quickly and easily on Windows, Mac or Linux.



<https://obsproject.com>

# Group Project Proposal Presentation Format (4/5)

## Lecture Series #04—Project Proposal Writing and Presentation (1/2)

- Project Proposal Content
  - Elements of the proposal
- Project Proposal Format
  - ACM sigconf template
  - ACM referencing
- Project Proposal Presentation
  - Presentation slides guidelines
  - Presentation talks guidelines

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Lighton Phiri

June 11, 2020

ICT 3020 (2019/20) L04 I01 - 3

<https://meet.google.com>

# Group Project Proposal Presentation Format (5/5)

**kdenlive** About Features Download News Toolbox Contribute Inside Kdenlive

Open source video editor. Free and easy to use for any purpose, forever. [Kdenlive 20.04.1](#)

### Latest News

**GSoC '20 Progress: Week 3 and 4**  
Jun 30, 2020 | [GSoC, News](#) | 0 Comments  
Greetings! The past two weeks did not see as much progress as I would have liked because of my university exams and evaluations. Now, let's focus on the work that I could do before I got swamped with the academic work and term exams. I started the third week by... [READ MORE](#)

**GSoC' 20 Progress: Week 1 and 2**  
Jun 15, 2020 | [GSoC, News](#) | 2 Comments  
Greetings! It's been two weeks since the coding period began and I would love to share with the community the progress I have made so far. In the past two weeks, I focused on implementing a basic class for handling subtitles. First, I created a class called... [READ MORE](#)

**Basic Subtitling Support in Kdenlive - GSoC '20**  
Jun 1, 2020 | [GSoC, News](#) | 3 Comments  
Greetings to all! A month ago I was selected to participate as a student in Google Summer of Code with Kdenlive. The Community Bonding period is coming to an end and the coding period will soon commence. In this post, I am going to talk about what the project is... <https://kdenlive.org/en>

# Recap—Proposal Presentation Guidelines

- **Communicating Ideas**
- **Presentation Structure**
- **Presentation Slides Layout**
- **Tooling**
- **Group Project Presentation**



# Lecture Outline

- **The Research Process**
- **Proposal Document Structure**
- **Formatting Guidelines**
- **Proposal Presentation Guidelines**
- **Exemplars**
  - Proposal Documents
  - Proposal Presentation Slides
  - Proposal Presentation Screencasts

# Lecture Outline

- **The Research Process**
- **Proposal Document Structure**
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- **Exemplars**
  - Proposal Documents
  - Proposal Presentation Slides
  - Proposal Presentation Screencasts

# Proposal Documents (1/2)

Exemplars and High-Scoring Projects 		Edit 
	High Scoring Projects	Edit 
	Proposal Document	Edit 
	 [73%] Project Team #20: Make-up Assessment Requester	Edit 
	 [68%]Project Team #5: Knowledge Sharing Hub	Edit 
	Proposal Presentation	Edit 
	 [82%]Project Team #16: Calendar Conflict Resolver	Edit 
	 [77%]Project Team #20: Make-up Assessment	Edit 

# Proposal Documents (2/2)

High Scoring Projects

Proposal Document

[73%] Project T

[68%]Project T

Proposal Presentation

[82%]Project T

[77%]Project T

73%

MAR: Makeup-Assessment Requisition Plugin

<p>Jackson Mwanaumo Department of Library and Information Science University of Zambia Lusaka, Zambia 2017012981@student.unza.zm</p>	<p>Mary Mukuka Department of Library and Information Science University of Zambia Lusaka, Zambia 2017012965@student.unza.zm</p>	<p>Mwelwa Nkhata Department of Library and Information Science University of Zambia Lusaka, Zambia 14113104@student.unza.zm</p>
<p>Luckson Makanta Department of Library and Information Science University of Zambia Lusaka, Zambia 2017006974@student.unza.zm</p>	<p>Wezi Munthali Department of Library and Information Science University of Zambia Lusaka, Zambia 2017012943@student.unza.zm</p>	

**KEYWORDS**  
Make-up assessments, Moodle plugin, computer-mediated communication.

**1.0 PROJECT DESCRIPTION**  
Students have many reasons for requesting makeup assessments and the process of requesting them have remained stagnant for years and have not changed despite technological advancements that could help them. This may hinder them from making a conventional

High Scoring Project Document

lighton.phiri@unza.zm: (73/100)

**## Content Quality**

- \* Project Description (10/10)
- \* Problem Statement (7/10)
- \* Research Questions (6/10)
- \* Related Work (4/10)
- \* Methodology (10/10)
- \* Ethics (3/5)

**## Project Management**

- \* Work Breakdown Structure (5/5)
- \* Project Timeline (7/10)
- \* Risk Management (10/10)
- \* Resources (0/5)

**## Style and Formatting**

- \* Template (2/3)
- \* Formatting (1/3)
- \* Language and Grammar (2/2)
- \* Citation and Referencing (1/2)

**## Penalties**

- \* No Collaboration in Shared Google Drive: -1

lighton.phiri@unza.zm: \* Careful with template daggga at the end of Jackson Mwanaumo's name should be removed

\* This in no way affects the score of this document, but, did you sit and think about the order of na

# Proposal Presentation Slide Decks

+	High Scoring Projects	
+	Proposal Document	
+	1 [73%] Project	
+	2 [68%] Project	
+	Proposal Presentation	
+	1 [82%] Project	
+	2 [77%] Project	

82%

## Proposal presentation

RESEARCH TOPIC: TO CREATE A CALENDAR CONFLICT RESOLVER WHICH WILL HELP THE INSTRUCTOR RESOLVE THE PROBLEM OF THE TIMETABLE CLASHING.

Presentation by: Ilinanga Imakando, David Pungwa, Bydon Simukoko, Danny Siababa & Mutune Chaibela.

**High Scoring Project Proposal Presentation**

lighton.phiri@unza.zm: (82/100)

## Presentation Slides

- \* Available (5/5)
- \* Content (20/20)
- \* Quality (13/15)
- \* Visualisations (0/5)
- \* Comprehensiveness (10/10)
- \* Collaboration (5/5)

General comments:

- \* No collaboration in the Shared Google Drive
- \* Google Slides document missing in the Shared Google Drive
- \* No visualisations in the presentation slides

## Screencast

- \* Available (5/5)
- \* Content (10/10)
- \* Quality (6/10)
- \* Comprehensiveness (5/10)
- \* Collaboration (4/5)















...es: the filename for the M

...nd music playing

...orrible: the footage was

... This is NOT a topic. This

# Proposal Presentation Screencasts

		Project Team #1: Events Sharing	Edit ▼
		Project Team #20: Make-up Assessment Requester	Edit ▼
		Proposal Presentation Screencast Coordination	Edit ▼
		Project Team #1: Events Sharing	Edit ▼
		Project Team #5: Knowledge Sharing Hub	Edit ▼
		Proposal Presentation Content	Edit ▼
		Project Team #16: Calendar Conflict Resolver	Edit ▼
		Project Team #12: Tutorial Attendance Register	Edit ▼



**UNZA Main Library commemorates**

# **Kenneth Kaunda Day**

# Lecture Outline

- **The Research Process**
- **Proposal Document Structure**
- **Formatting Guidelines**
- **Proposal Presentation Guidelines**
- **Exemplars**
  - Proposal Documents
  - Proposal Presentation Slides
  - Proposal Presentation Screencasts

# Q & A Session

- **Comments, concerns and complaints?**



[ict3020@unza.zm](mailto:ict3020@unza.zm)



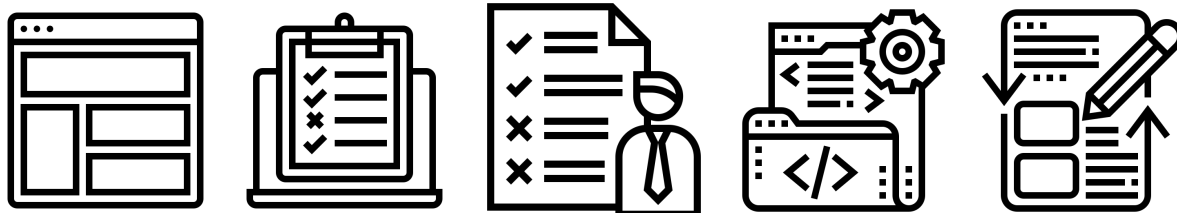
<https://bit.ly/3uI5u5V>



<http://bit.ly/2kK2ZkA>

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- [3] Keshav, S. (2007). How to read a paper. ACM SIGCOMM Computer Communication Review, 37(3), 83-84.  
<https://dl.acm.org/doi/10.1145/1273445.1273458>
- [4] How To Speak by Patrick Winston  
<https://youtu.be/Unzc731iCUY>



**ICT 3020 (2022/23)**  
**Fundamentals of Software Engineering**  
**Module 3: Project Proposal**  
**Documentation and Presentation**

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**Department of Library & Information Science**  
**University of Zambia**  
**<https://bit.ly/3uI5u5V>**

