

DataLab '19

About Projects, Tasks, Project Management and Tools

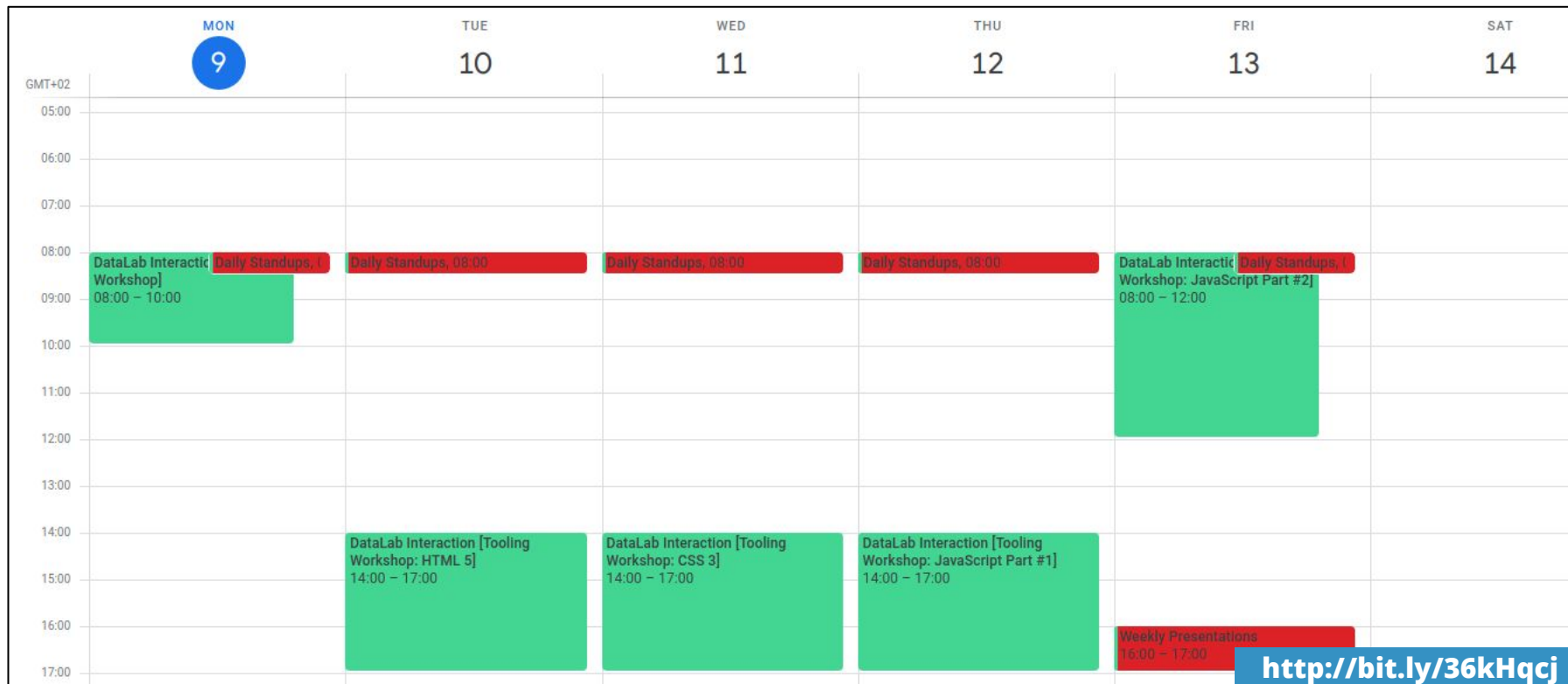
Lighton Phiri <lighton.phiri@unza.zm>
Department of Library and Information Science
University of Zambia

<http://bit.ly/datalab-repository>

Outline

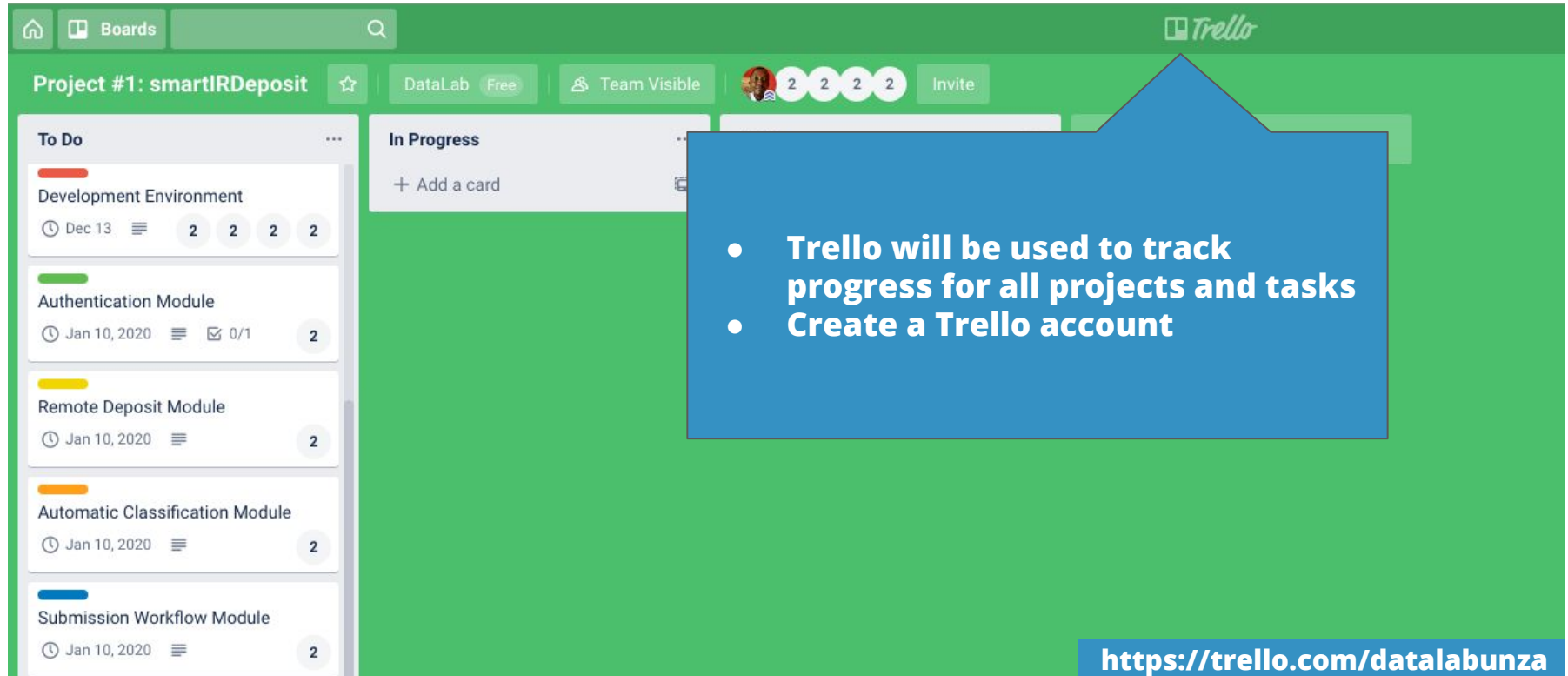
- The Workflow
- Tasks and Projects

Regular Interactions



November 28, 2019

Project Management (1/2)



The screenshot shows a Trello board interface. At the top, there's a navigation bar with 'Boards' and a search icon. The board title is 'Project #1: smartIRDeposit'. Below the title, there are labels 'DataLab' and 'Free', a 'Team Visible' button, a user profile picture, and four circular avatars with the number '2'. An 'Invite' button is also present. The board is divided into two main sections: 'To Do' and 'In Progress'. The 'To Do' section contains five tasks, each with a progress bar, a due date, and a count of '2' in a circle. The tasks are: 'Development Environment' (due Dec 13), 'Authentication Module' (due Jan 10, 2020, 0/1 completed), 'Remote Deposit Module' (due Jan 10, 2020), 'Automatic Classification Module' (due Jan 10, 2020), and 'Submission Workflow Module' (due Jan 10, 2020). The 'In Progress' section has a '+ Add a card' button. A large blue callout box is overlaid on the right side of the board, containing two bullet points. At the bottom right, there is a URL link.

- Trello will be used to track progress for all projects and tasks
- Create a Trello account

<https://trello.com/datalabunza>

Project Management (2/2)

Project #1: smartIRDeposit ☆ DataLab Free Team Visible

To Do **In Progress**

Project Des...
Dec 10

Project Tim...
Dec 11

IR Sandbox Configurati...
Dec 13

Developme...
Dec 13

Authentication Module
Jan 10, 2020 0/1 2

Remote Deposit Module
Jan 10, 2020 2

Automatic Classification Module
Jan 10, 2020 2

Project Design Document
in list To Do

LABELS **DUE DATE**

+ ☐ tomorrow at 8:30 AM ▼

Description **Edit**

All team members should READ the entire document to gain a sense of what the project is about.

We shall have a discussion of the document on the due date

Project Tasks Assignment is as follows:

1. Development Environment => All
2. Platform Sandbox Installation => All
3. Authentication Module => Hockins
4. Remote Deposit Module => Wezi
5. Automatic Classification Module => Mathews
6. Submission Workflow Module => Jackson
7. Deployment => All
8. Chrome Browser Plugin => Hockins & Mathews
9. Desktop Client => Jackson & Wezi

Attachments

smartIRDepositor_design_document.pdf

SUGGESTED ⚙

Join

[Feedback](#)

ADD TO CARD

Members

Labels

Checklist

Due Date

Attachment

Cover

POWER-UPS

Get Power-Ups

Get unlimited Power-Ups, plus much more.

Upgrade Team

ACTIONS

<https://trello.com/datalabunza>

- We shall collectively break up high-level tasks into smaller and more manageable ones

Versioning Your Work (1/5)

```
commit 9f83b39e08a827b7f073b9cf5d84f4f9dd24ea5f
Author: Lighton Phiri <lighton.phiri@gmail.com>
Date: Thu Oct 3 21:49:12 2019 +0200
```

Minor changes to Tex input file

```
commit 69ac59bfaf68381c6d95f9d696e95a03b3691e07
Author: Lighton Phiri <lighton.phiri@gmail.com>
Date: Thu Oct 3 21:03:17 2019 +0200
```

<https://git-scm.com>

- **Setup and familiarise yourself on how to use Git**
 - Getting started is extremely easy and you shall mostly use the commit, push and pull options

Versioning Your Work (2/5)

Version Control with Git

Wolfman and Dracula have been hired by Universal Missions (a space services spinoff of the University of Michigan State University) to investigate if it is possible to send their next planetary lander to Mars. They want to be able to work on the plans at the same time, but they have run into problems with this in the past. If they take turns, each one will spend a lot of time waiting for the other to finish, but if they work on their own copies and email each other, they can avoid this problem.

A colleague suggests using [version control](#) to manage their work. Version control is a system that allows you to keep track of changes to your files over time.

- Nothing that is committed to version control is ever lost, unless you delete it. You can see exactly who wrote what on a particular day, or what version of a file was used.
- As we have this record of who made what changes when, we can revert back to a previous feature in an editor.
- When several people collaborate in the same project, it's possible to have conflicts whenever there's a conflict between one person's work and another's.

Teams are not the only ones to benefit from version control: lone researchers if they ever need to come back to the project later on can use it to see what they did.

Version control is the lab notebook of the digital world: it's what professional development project relies on, and most programmers use it for their work. It's a time or needs to be shared can and should be stored in a version control system.

- I highly recommend you follow through with the short Software Carpentry "crash course"
- There are of course a tonne of resources online

⚙ Prerequisites

In this lesson we use Git from the Unix Shell. Some previous experience with the shell is expected, *but isn't mandatory*.

Schedule

	Setup	Download files required for the lesson
00:00	1. Automated Version Control	What is version control and why should I use it?
00:05	2. Setting Up Git	How do I get set up?

<http://swcarpentry.github.io/git-novice>

Versioning Your Work (3/5)

- Create a Github account and familiarise yourself with the platform

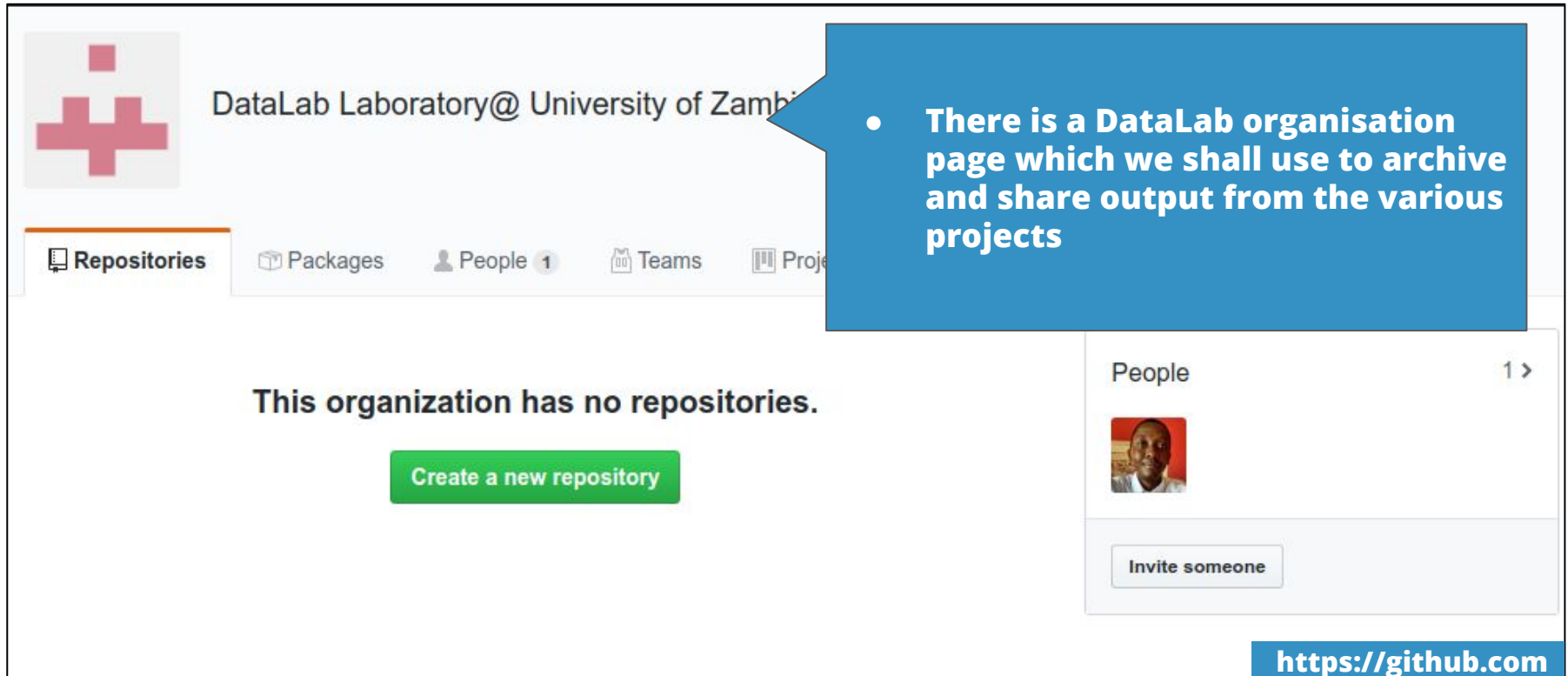
The image shows a screenshot of a GitHub profile page for a user named Lighton Phiri. A large blue callout box is overlaid on the left side of the page, containing a bullet point that reads: "Create a Github account and familiarise yourself with the platform".

The profile page includes the following elements:

- Header:** Shows repository statistics: 0 Projects, 0 Packages, 94 Stars, 17 Followers, and 3 Following.
- Profile Card:** Displays the user's name "Lighton Phiri", their GitHub handle "lightonphiri", and a button to "Edit profile". Below this, it lists their bio: "Lifelong learning student", their affiliation "University of Zambia", their location "Lusaka", and their email "lighton.phiri@gmail.com".
- Repository Grid:** Displays a grid of repositories:
 - code-zambia-shapefiles:** Shapefiles for The Republic of Zambia. 3 stars, 2 forks.
 - code-csuct-website:** University of Cape Town Department of Computer Science Web profile. Plain HTML/CSS since this has to run in auto-pilot mode once students leave/graduate. 1 HTML file.
 - code-r-example-plots:** A collection of R ggplot2 plots, code and data sources, based on academic and non-academic publications. 1 TeX file.
 - misc-project-wikipedia:** Repository housing resource---scripts, images, plots et al.---that feed into pages I edit on Wikipedia. 1 R file.
 - lightonphiri.github.io:** Personal GitHub page. 1 CSS file.

<https://github.com>

Versioning Your Work (4/5)



DataLab Laboratory@ University of Zambia

- There is a DataLab organisation page which we shall use to archive and share output from the various projects

This organization has no repositories.

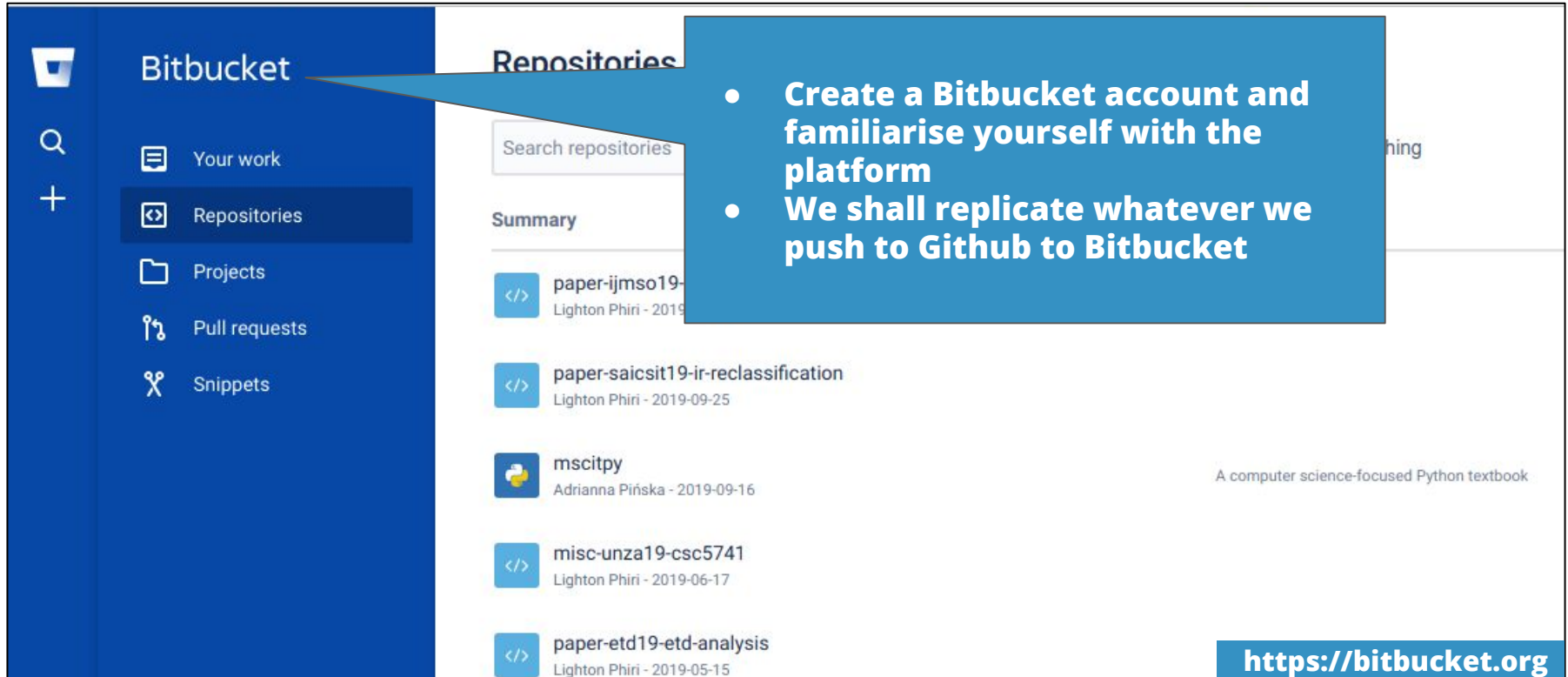
Create a new repository

People 1 >

Invite someone

<https://github.com>

Versioning Your Work (5/5)



Bitbucket

Repositories


- Create a Bitbucket account and familiarise yourself with the platform
- We shall replicate whatever we push to Github to Bitbucket

Search repositories

Summary

`</>` paper-ijmso19-
Lighton Phiri - 2019-09-16

`</>` paper-saicsit19-ir-reclassification
Lighton Phiri - 2019-09-25

 mscitypy
Adrianna Pińska - 2019-09-16
A computer science-focused Python textbook

`</>` misc-unza19-csc5741
Lighton Phiri - 2019-06-17

`</>` paper-etd19-etd-analysis
Lighton Phiri - 2019-05-15


<https://bitbucket.org>

Project Assignments

- Project 1 | IR Deposit
- Project 2 | Subject Repository Ingestion
- Project 3 | Daily Mail Transcription
- Project 4 | OAI-PMH Portal
- Project 5 | lis.unza.zm
- Project 6 | datalab.unza.zm
- Project 7 | Pending | Labeling IR Objects
- Project 8 | DSpace Templating
- Project 9 | DRGS OJS Instances Content Ingestion

OJS Instances


[Register](#) [Login](#)



The University of Zambia Journals

<p>Journal of Adult and Youth Education (online ISSN 2664-5688)</p> <p>The Journal of Adult and Youth Education (JAYE) is a biannual serial published twice a year. It addresses contemporary issues related to adult, community development and youth education.</p> <p>View Journal Current Issue</p>	
<p>Zambia Journal of Education (Online ISSN 2664-3170: Print ISSN 1996-3645)</p> <p>The journal is published bi-annually by the School of Education of the University of Zambia through its Editorial Board. Contributions of articles are invited from researchers, teacher educators, institutional managers, teachers, and other practitioners of education in Zambia, the sub-region and beyond.</p>	http://journals.unza.zm

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Thank you for your time

Lighton Phiri
@lightonphiri

lighton.phiri@unza.zm
<http://lis.unza.zm/~lightonphiri>