

Singapore Management University

## Institutional Knowledge at Singapore Management University

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COAR Asia OA Meeting 2021

COAR Asia OA Meeting 2021

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Oct 25th, 3:35 PM

### PolyU OER Portal: An archive of institutional collective wisdom

Johnny YUEN

*Hong Kong Polytechnic University*

Follow this and additional works at: <https://ink.library.smu.edu.sg/asiaoa2021>



Part of the [Scholarly Communication Commons](#)

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YUEN, Johnny. PolyU OER Portal: An archive of institutional collective wisdom. (2021). COAR Asia OA Meeting 2021. .

**Available at:** <https://ink.library.smu.edu.sg/asiaoa2021/program/agenda/8>

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# PolyU OER Portal: An Archive of Institutional Collective Wisdom

Open Educational  
Resources OER

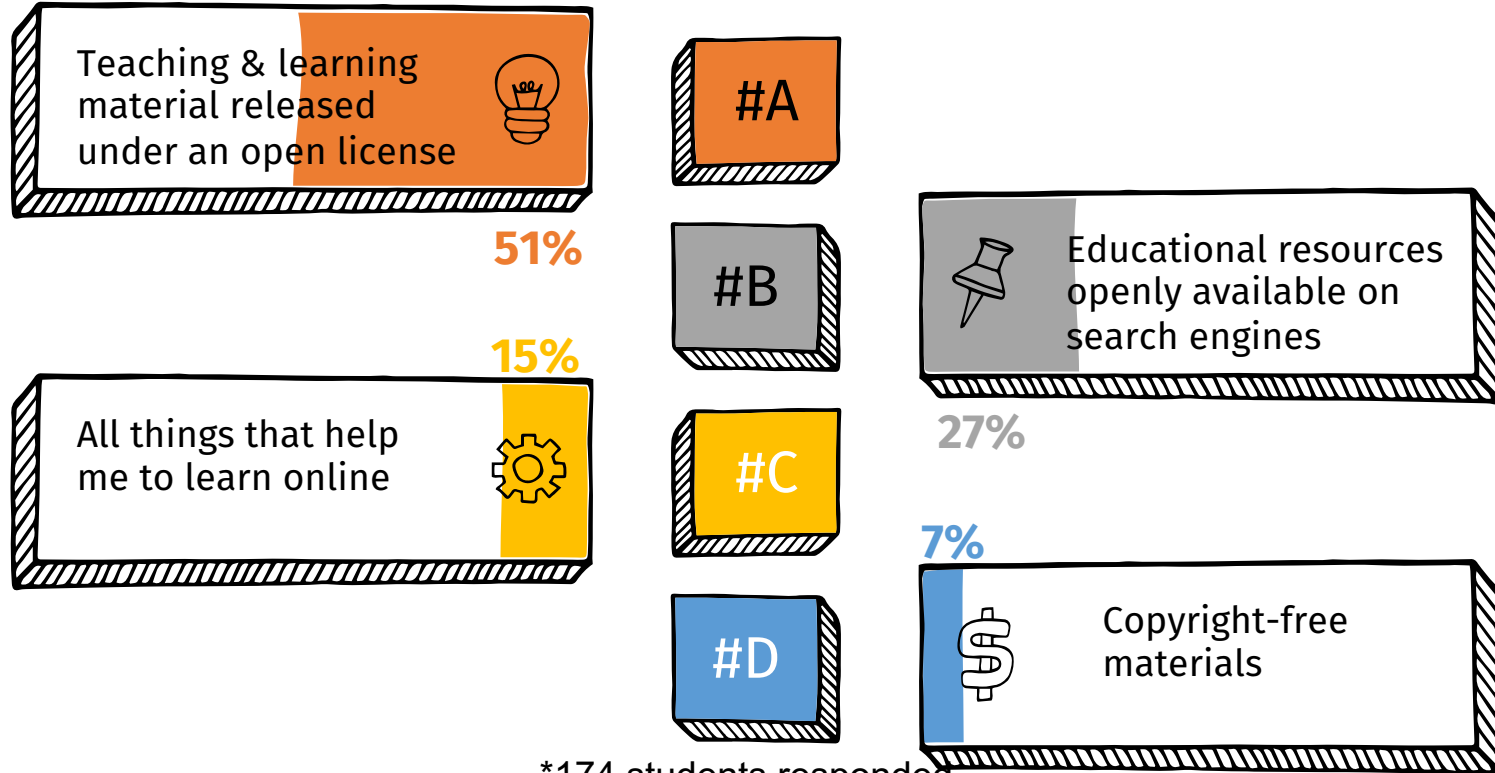


PolyU  
students'  
perception  
of

**Open  
Educational  
Resources**

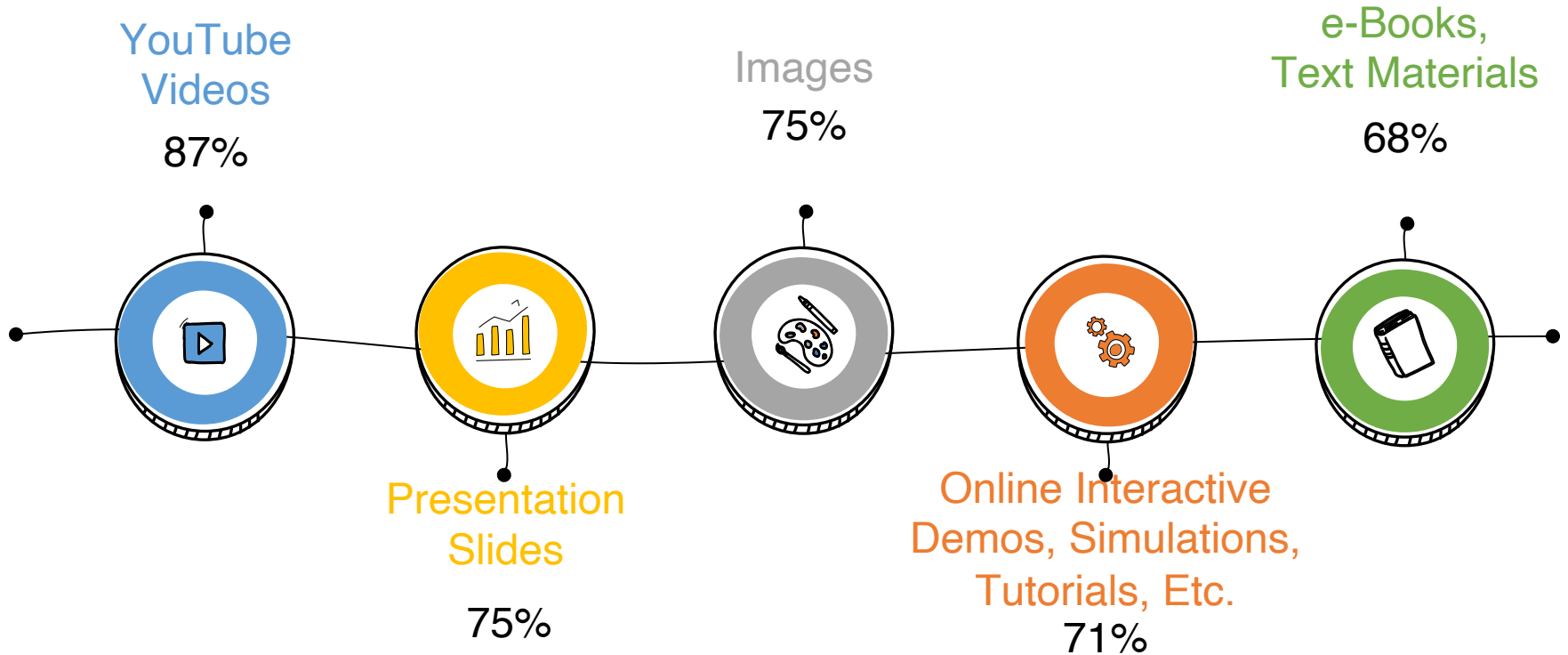
(Selected Findings)

# #1. PolyU students\* have a wide spectrum of views towards Open Educational Resources “OER”



\*174 students responded  
Single-choice MC item

## #2. Learning materials used by PolyU students\* **3 times or more per week**



### #3. PolyU students' preference on sharing "OER from the web"



With friends?

Students said they will share OER they found online with close friends



90% Yes

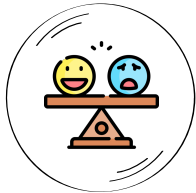


With the whole class?

Students said they will share OER they found online with the whole class



32% Yes

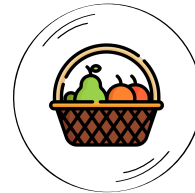


Ripping me off?

Sharing OER helps other students rip me off



51% Agree



Fruitful partnerships

Sharing OER helps building fruitful partnerships with classmates



91% Agree

## #4. PolyU students' preference on sharing "self-created learning resources"



With friends?

Students said they will share their creations with close friends

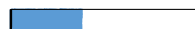


82% Yes

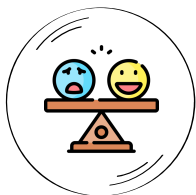


With the whole class?

Students said they will share their creations with the whole class



36% Yes

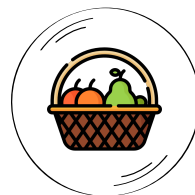


Ripping me off?

Sharing my creations is letting other students rip me off



55% Agree



Fruitful partnerships

Sharing my creations helps building fruitful partnerships with classmates



89% Agree

Facilitating adoption of OER  
should *not only* aims at  
providing “more T&L resources”

“a change of  
perception & habit”  
of both teaching & learning is  
needed.







# The vision 2019/20- 2024/25

The Library curates open educational resources, *for and by students and staff*, the latest and best e-learning resources to support blended teaching and learning @PolyU.



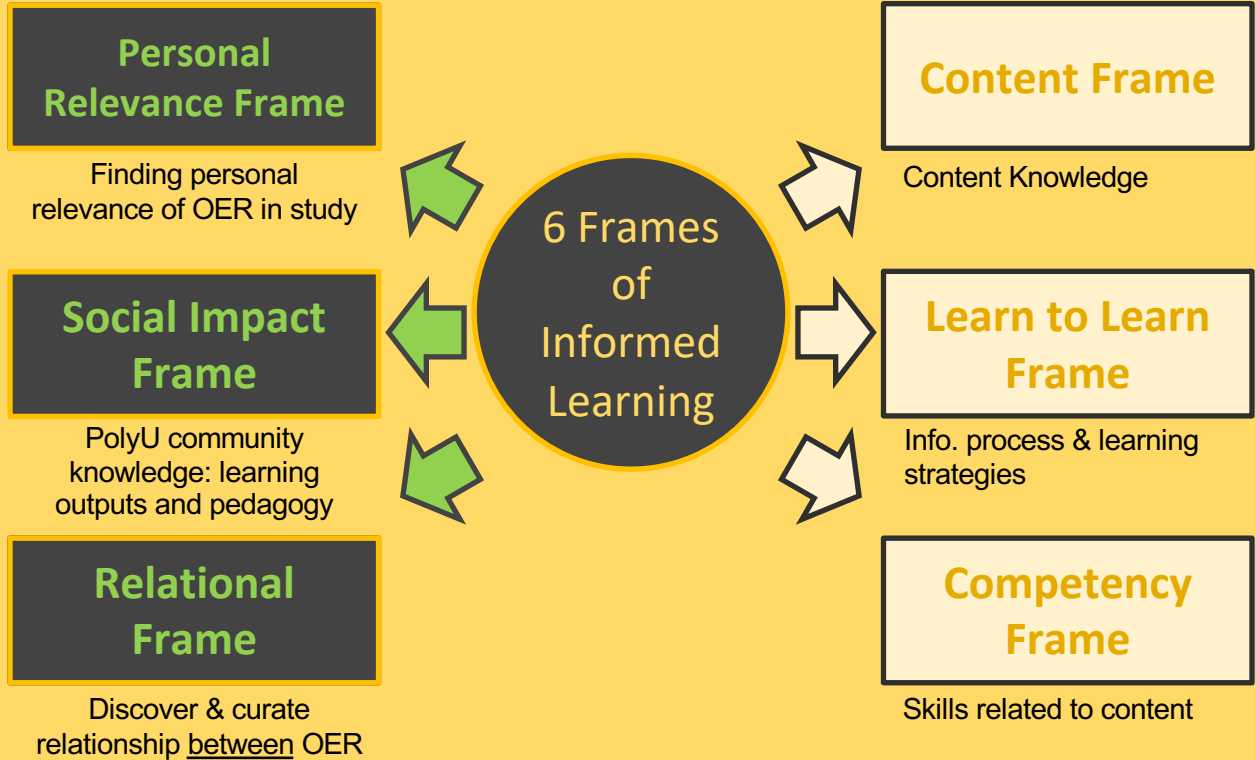
# An Archive of Institutional Collective Wisdom

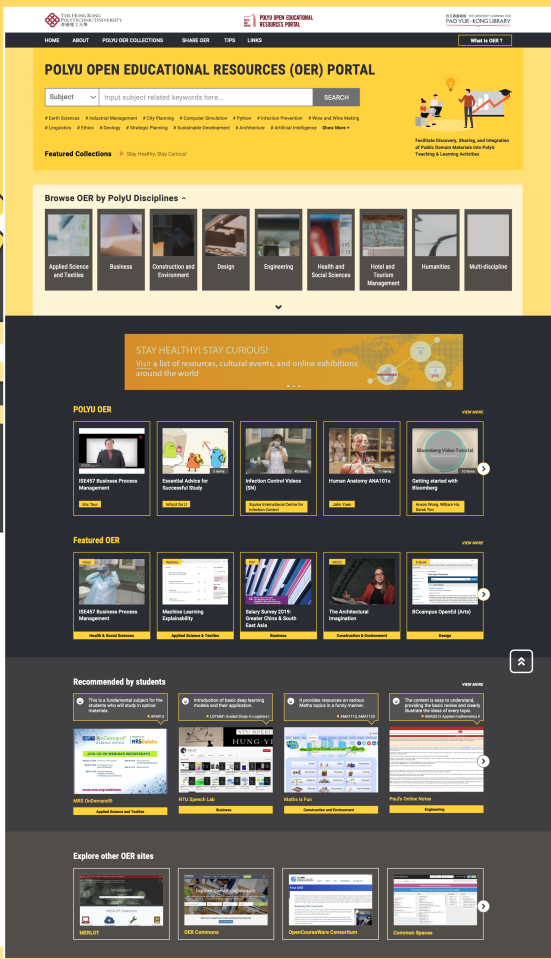
Our Library's Open Educational Resources (OER) initiatives aim at **capturing and sharing the collective wisdom** of the PolyU community around the PolyU curriculum:

- ❑ **Subject content related OER**
- ❑ **PolyU teaching & learning related OER**



Bruce, Christine. *Informed learning*. Association of College & Research Library, 2008.





# PolyU OER Portal (since 2019)

Subject content related  
OER were mainly  
collected from:

1. Students
2. Faculties
3. Librarians



<http://oer.lib.polyu.edu.hk>



# 1. Students' recommendations w/personal sharing through surveys



This is a fundamental subject for the students who will study in optical materials.

AP6913

MRS OnDemand® WEBINAR SERIES Presented by: MRS Bulletin

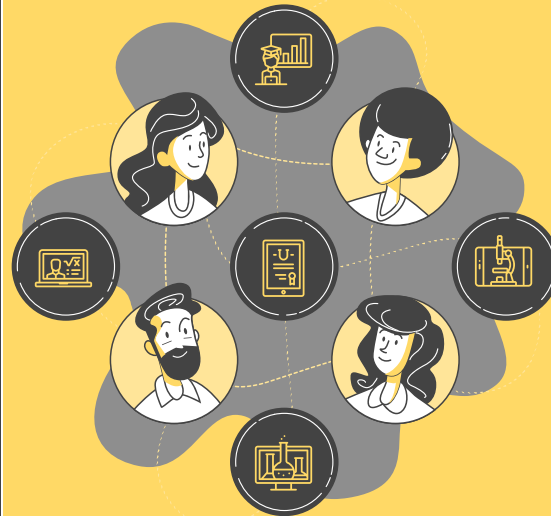
**JOIN US ON WEBINAR WEDNESDAYS**

- February 25, 2015 3D Printing of Biomaterials
- March 25, 2015 3D Integrated Circuits: Materials Challenges
- April 22, 2015 Multiscale Mechanics of Biological, Biomedical, and Biologically Inspired Materials
- May 20, 2015 Power Electronics with Wide Bandgap Materials
- June 24, 2015 Biomimicrization

[www.mrs.org/webinars](http://www.mrs.org/webinars)

MRS OnDemand®

Applied Science and Textiles



It provides resources on various Maths topics in a funny manner.

AMA1110, AMA1120

Home Algebra Data Geometry Measure Numbers Dictionary Games Puzzles Worksheets

**MATHS FUN**

Search

Index	Data	Geometry
5+8 Numbers	Puzzles	Money
Algebra	Calculus	Physics
Games	Dictionary	Worksheets

Maths is Fun

Construction and Environment



Reference Management Tools: A Comprehensive Guide for EndNote, Mendeley and Zotero

Pao Yue-kong Library



Proper Way to Wear Face Shield

Squina International Centre for Infection Control



Steps in preparing for research task

InfoLit for U MOOC



The advantages of being information literate

InfoLit for U MOOC



Clinical Neurology: Guest Lecture by Dr. Richard Li

Yuen, John



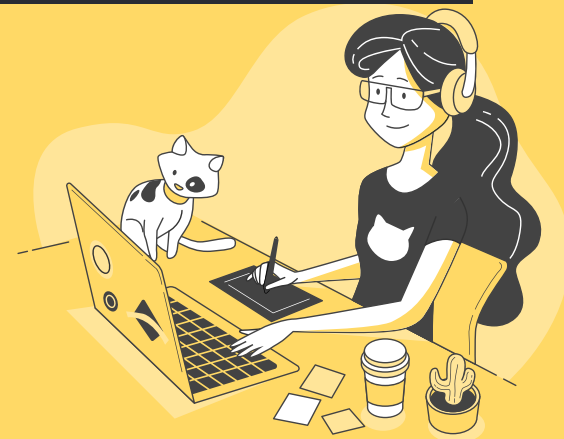
Staying F.O.C.U.S.E.D. - The power of peripheral vision in strategic thinking

## 2. OER created by PolyU staff

A growing collection of PolyU produced OER

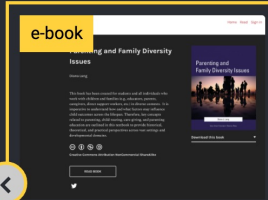


#PolyU staff are welcome to contribute OER to this portal.



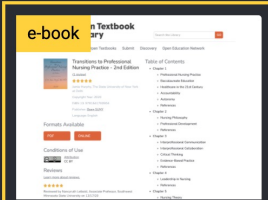
## FEATURED OER

[VIEW MORE](#)



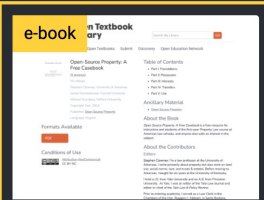
Parenting and Family  
Diversity Issues

Health and Social Sciences



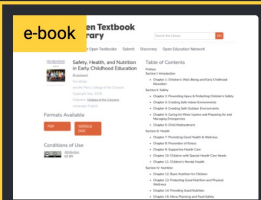
Transitions to Professional  
Nursing Practice - 2nd  
Edition

Health and Social Sciences



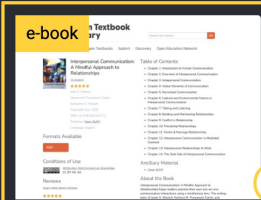
Open-Source Property: A  
Free Casebook

Law



Safety, Health, and Nutrition  
in Early Childhood Education

Health and Social Sciences



Interpersonal  
Communication: A Mindful  
Approach to Relationships

Health and Social Sciences



### 3. Featured OER hand-picked by librarians

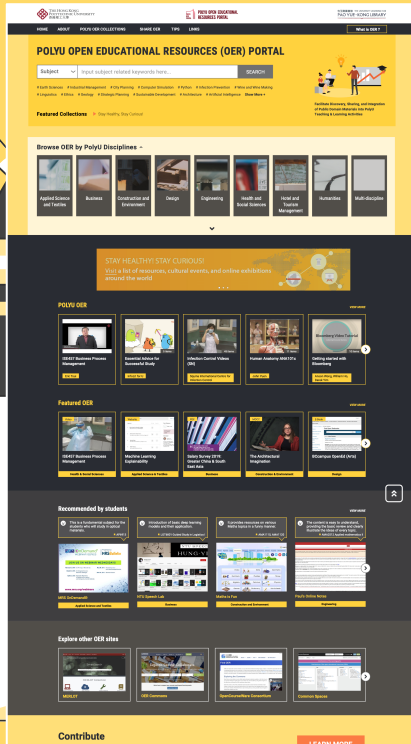
- ❑ Covers all 8 PolyU schools/faculties
- ❑ w/ metadata tags assigned to connect T&L activities, e.g. “Related PolyU course”
- ❑ Added regularly

# PolyU OER Portal

All subject content related OER are meta-tagged with:

- Domain, sub-domains, KWs...
- PolyU school & faculties,
- Related PolyU Course Code
- ... ..

PolyU staff & students have recommended OER for **more than 230 PolyU courses** already.





Home / StatQuest with Josh Starmer

Video

## StatQuest with Josh Starmer

Statistics, Machine Learning and Data Science can sometimes seem like very scary topics, but since each technique is really just a combination of small and simple steps, they are actually quite simple. My goal with StatQuest is to break down the major methodologies into easy to understand pieces. That said, I don't dumb down the material. Instead, I build up your understanding so that you are smarter.

### Comments by students

“

This channel transforms statistics from abstract to practical. It illustrates statistic concepts with examples, and makes statistic calculations step by step. Students can watch the topics related to lectures and the channel will recommend relevant videos, making the learning experience more comprehensive.

Details

Keywords

Tags



View Resource

For PolyU Instructors:  
Export To Resource List

### Related PolyU Course

HTI34016 Introduction to Clinical  
Research



## StatQuest with Josh Starmer

Statistics, Machine Learning and Data Science can sometimes seem like very scary topics, but since each technique is really just a combination of small and simple steps, they are actually quite simple. My goal with StatQuest is to break down the major methodologies into easy to understand pieces. That said, I don't dumb down the material. Instead, I build up your

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Keywords

Tags

Linear Models

Machine Learning

Logistic Regress

Statistics



[View Resource](#)

For PolyU Instructors:  
[Export To Resource List](#)

Related PolyU Course

HT134016 Introduction to Clinical Research



## StatQuest with Josh Starmer

Statistics, Machine Learning and Data Science can sometimes seem like very scary topics, but since each technique is really just a combination of small and simple steps, they are actually quite simple. My goal with StatQuest is to break down the major methodologies into easy to understand pieces. That said, I don't dumb down the material. Instead, I build up your understanding so that you are smarter.

### Comments by students ▲

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This channel transforms statistics from abstract to practical. It illustrates statistic concepts with examples, and makes statistic calculations step by step. Students can watch the topics related to lectures and the channel will recommend relevant videos, making the learning experience more comprehensive.

### Details ▼

### Keywords ▼

### Tags

Linear Models

Machine Learning

Logistic Regress

Statistics



[View Resource](#) 

[For PolyU Instructors:  
Export To Resource List](#) 

### Related PolyU Course

[HTI34016 Introduction to Clinical Research](#)



## StatQuest with Josh Starmer

Statistics, Machine Learning and Data Science can sometimes seem like very scary topics, but since each technique is really just a combination of quite simple. My goal with StatQuest is to break down these topics into understandable pieces. That said, I don't dumb down the content, I just provide the understanding so that you are smarter.

### Comments by students

“

This channel transforms statistics from a theoretical to a practical. It illustrates statistic concepts with real world examples and makes statistic calculations step by step. I can watch the topics related to lectures and the channel will recommend relevant videos, making the learning experience more comprehensive.

### Details

### Keywords

### Tags

Linear Models

Machine Learning

Logistic Regress

Statistics



[View Resource](#) 

[For PolyU Instructors:  
Export To Resource List](#) 

### Related PolyU Course

[HTI34016 Introduction to Clinical Research](#)



Sort by Relevan

Clear all filters ✕

Discipline ▼

Applied Science and Textiles 1

Engineering 1

Keywords ➤

Resource Type ➤

Creator / Instructor ➤

Year ➤

Language ➤

Related PolyU Courses ▼

HTI34016 Introduction to Clinical Research ✕ 1

Results for:

Related PolyU Courses ➤ HTI34016 Introduction to Clinical Research ✕

Video



## StatQuest with Josh Starmer

Statistics, Machine Learning and Data Science can sometimes seem like a lot of things since each technique is really just a combination of small and simple steps that are often quite simple. My goal with StatQuest is to break down the major methodological pieces. That said, I don't dumb down the material. Instead, I build up your understanding so you are smarter.

**Course related:** [HTI34016 Introduction to Clinical Research](#)

**Subjects:** [Computing and Mathematics and Statistics](#)

**Keywords:** [Machine learning](#) [Data mining](#) [Statistics](#)

[Mathematical analysis](#)

**Resource Type:** [Video](#)

## StatQuest with Josh Starmer

Statistics, Machine Learning and Data Science can sometimes seem like very scary topics, but since each technique is really just a combination of quite simple. My goal with StatQuest is to break down these topics into understandable pieces. That said, I don't dumb down the content, I just provide the understanding so that you are smarter.

### Comments by students

“

This channel transforms statistics from a practical. It illustrates statistic concepts with and makes statistic calculations step by step. You can watch the topics related to lectures and it will recommend relevant videos, making the experience more comprehensive.

### Details

### Keywords

### Tags

Linear Models

Machine Learning

Logistic Regress

Statistics



[View Resource](#) 

**For PolyU Instructors:**  
[Export To Resource List](#) 

### Related PolyU Course

[HTI34016 Introduction to Clinical Research](#)



# PolyU LMS (Blackboard Ultra)

## Introducing Resource List

**Resource List** provides students with easy access to reading materials prescribed by instructors for particular module **right inside the Learn@PolyU course page**, including books, readings and other online resources.

**Instructors** can select resources, including **OERs**, and add them to **Resource List** with a few clicks.

**Students** can access books, articles, videos and **OERs** all from one page - **Resource List** on **Learn@PolyU**.

**L@PU**  
LEARN@PolyU (理學網)

ABCD\_202001\_xxxxx

**Resource List**

- + Essential readings (books, articles, etc)
- + Streaming videos
- + POLYU OER PORTAL Open Educational Resources

**Instructors** can select resources, including **OERs**, and add them to **Resource List** with a few clicks.

**Students** can access books, articles, videos, and **OERs** all from one page - **Resource List** on **Learn@PolyU**.

# Curate PolyU online training events into the OER Portal

POLYU  
OER  
PORTAL

Meta-tagged to highlight six core elements of T&L design:

- ❑ Lesson Design,
- ❑ Educational Resources,
- ❑ Student Engagement,
- ❑ Good Practices,
- ❑ Assessment & Feedback, and
- ❑ Learning Analytics.

**Beyond the Technology:**  
Lessons Learned in  
Hybrid Teaching



**Student Engagement in  
Microsoft Teams**



**Conducting Laboratory Works  
and Simulations in Online  
Teaching & Learning – Part II**



**APPS FOR INTERACTIVE  
ONLINE LEARNING**





Enter search terms

Go

## Teaching and Learning Design

### Subjects



Lesson Design	66
Student Engagement	52
Assessment & Feedback	41
Educational Resources	36
Good Practices	17
Learning Analytics	5

### Lesson Design

[VIEW MORE](#)

Video

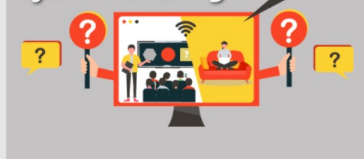
#### Beyond the Technology: Lessons Learned in Hybrid Teaching



Beyond the Technology - Lessons  
Learned in Hybrid Teaching: 28  
October

Video

#### Beyond the Technology: Lessons Learned in Hybrid Teaching



Beyond the Technology - Lessons  
Learned in Hybrid Teaching: 21  
October

Video

#### Conducting Laboratory Works and Simulations in Online Teaching & Learning - Part II



Conducting Laboratory Works and  
Simulations in Online Teaching and  
Learning Part II 20200826

### Student Engagement

[VIEW MORE](#)

Video

Active eLearning:

Video

Student Engagement in

Video

APPS FOR INTERACTIVE

## Beyond the Technology - Lessons Learned in Hybrid Teaching: 28 October

restricted access

Develop your hybrid teaching skills, try out engaging and interactive activities and share your initial perceptions of mixed-mode synchronous teaching from Semester 1.

Event Date: 28/10/2020

Facilitator(s): Dave Gatrell(EDC), John Sager (EDC)

### Details

### Keywords

Web-based instruction  
Blended learning  
Computer-assisted instruction

### Tags

online learning

teaching skills

potential challenges

Re-run

practical tips

hybrid teaching

Synchronous



[View Resource](#)

### Related OER

[Beyond the Technology - Lessons Learned in Hybrid Teaching: 21 October](#)

**For PolyU Instructors:**  
[Export To Resource List](#)

### Collection

[Learn from fellow teachers](#)

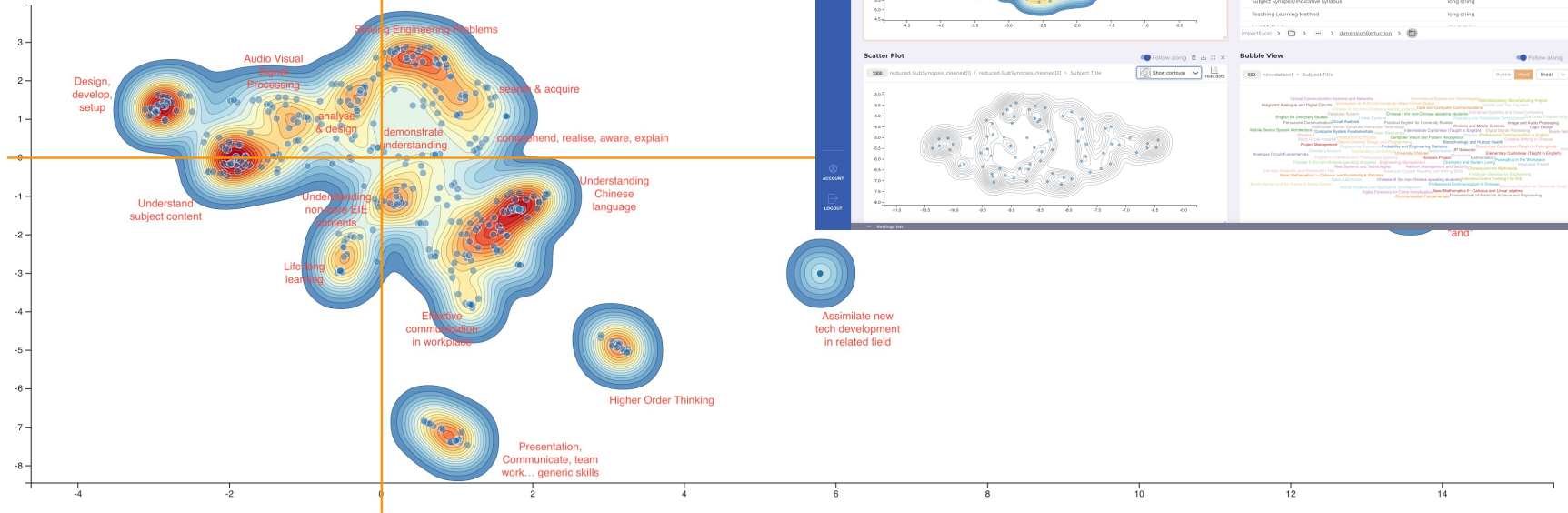
### License

# Dig deep into OER: Artificial Intelligence

EIE\_77\_Trial

## Scatter Plot

1000 (no input)



**EIE\_77\_Trial\_2**

Scatter Plot

1000 reduced-SubSynopses\_cleaned[] / reduced-SubSynopses\_cleaned[] → Subject Title

Follow along

Show heatmap

**Schema**

PIPELINE #1 X

Field label	Type
Subject Code	short string
Subject Departments	categorical string
Subject Title	short string
Old Hours, Termmed	long string
Old Add Hours, Termmed	long string
Intended Subject Learning Outcomes Termmed	long string
Subject Synopsis/Indicative Syllabus	long string
Teaching Learning Method	long string

Scatter Plot

1000 reduced-SubSynopses\_cleaned[] / reduced-SubSynopses\_cleaned[] → Subject Title

Follow along

Show contours

**Bubble View**

1000 reduced-SubSynopses\_cleaned[] / reduced-SubSynopses\_cleaned[] → Subject Title

Follow along

Filter

Heat

Size

Color

Search

Global Competence Systems and Networks

Integrated Design and Digital Creativity

English for University Studies

Mobile Open System Architecture

Project Management

Analysis of the Future of Biology


and

# Dig deep into OER: Video Analytics

Azure Media Services | Video Indexer + Create unlimited account

Insights Timeline Download English View Edit

Search



8-1-Eng\_default

Created 9 months ago by YUEN, Johnny KL [LIB]

Embed Download Open in editor

**2 People**

**Unknown #1**  
Appears in 2.94% of video

14 Play previous

**11 topics**

Health and wellbeing / Medicine and healthcare / **First aid**

Health and wellbeing / Healthy living / Hand washing

Health and wellbeing / Hygiene

Health and wellbeing / Hand sanitizer

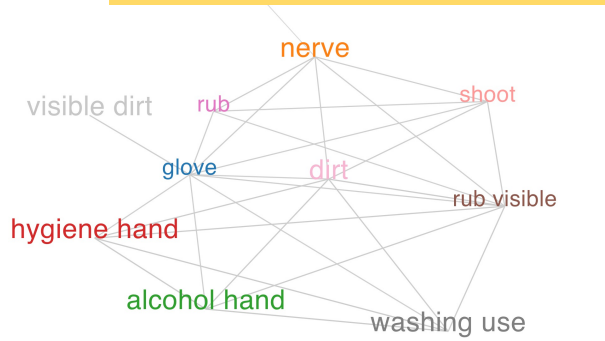
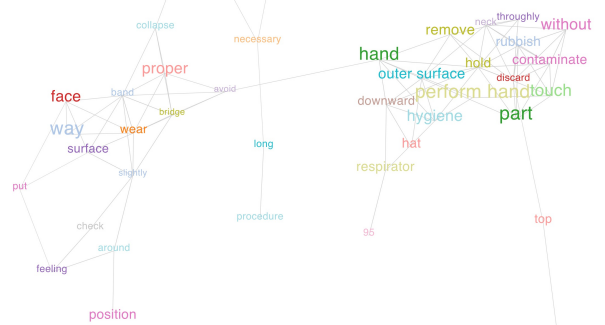
Hands Health Medical equipment Eyewear Alcohols Sanitation

14 Play previous

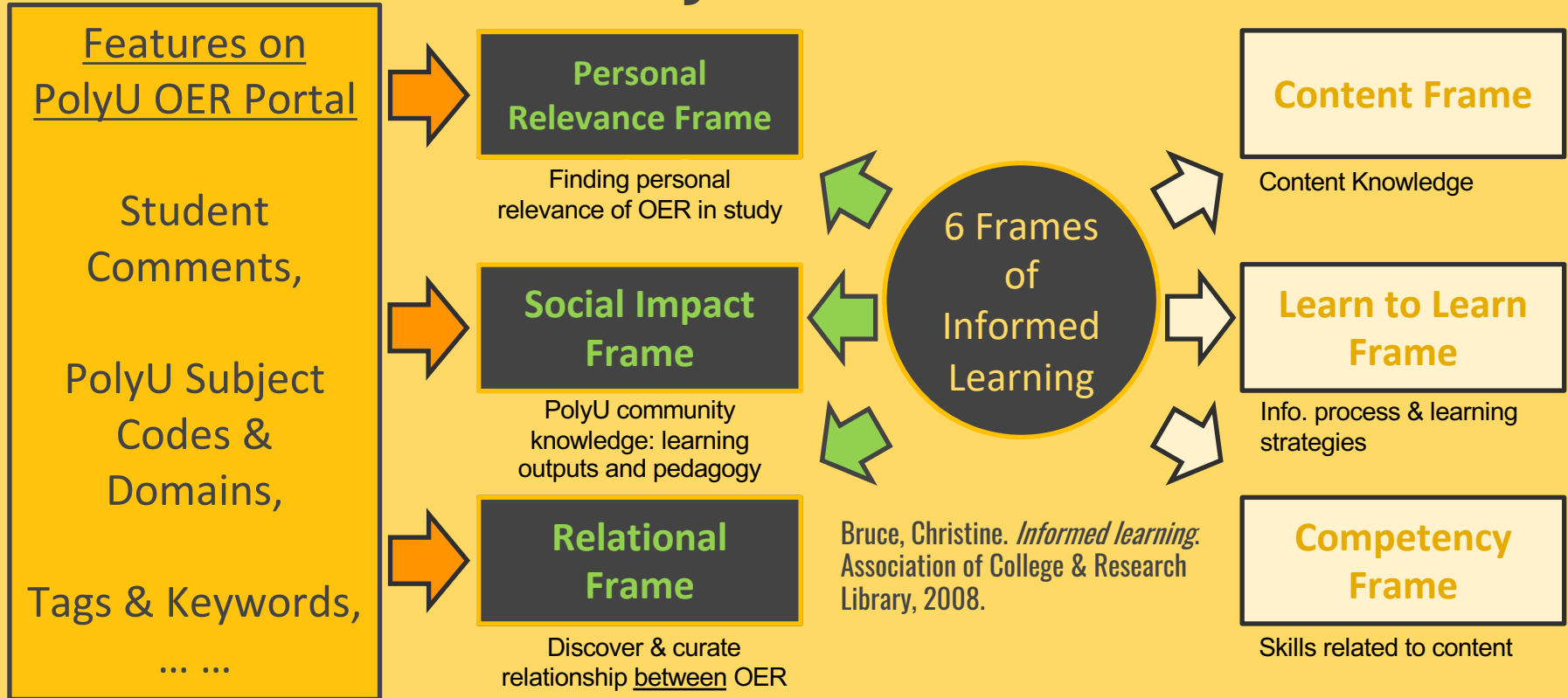
**83 Labels**

hair person wall sink bathroom plumbing fixture

14 Play previous



# Summary: Linking PolyU collective wisdom with the PolyU curriculum



The screenshot shows the PolyU Open Educational Resources (OER) Portal. At the top, there are navigation links for Home, About, PolyU OER Collections, Share OER, Tips, and Links. The main heading is "POLYU OPEN EDUCATIONAL RESOURCES (OER) PORTAL". Below this is a search bar with the placeholder text "Input subject related keywords here...". To the right of the search bar is a small illustration of people working together. Below the search bar, there are several featured collections, including "Stay Healthy, Stay Curious!". The main content area is titled "Browse OER by PolyU Disciplines" and lists various disciplines: Applied Science and Science, Business, Construction and Environment, Design, Engineering, Health and Social Sciences, Hotel and Tourism Management, Humanities, and Multi-discipline. Below this, there is a section titled "STAY HEALTHY! STAY CURIOUS!" with a sub-heading "Visit a list of resources, cultural events, and online exhibitions around the world". This section contains a grid of resource cards, including "HE437 Business Process Management", "Essential Advice for Successful Study", "Infection Control Videos (ICV)", "Human Anatomy: BIOACTIVITY", "Getting started with Bloomberg", "HE437 Business Process Management", "Workload Estimation", "Super Science (SIS) Greater China & South East Asia", "The Interdisciplinary Imagination", and "iChampus Special (iCh)", "Design". Below this, there is a section titled "Recommended by students" with a sub-heading "This is a fundamental subject for students who will study in various fields". This section contains a grid of resource cards, including "HS4166", "Introduction of Basic Design Learning", "Resources recorded on various media topics in a digital format", and "The content is easy to understand, providing a basic introduction to the design process of every product". Below this, there is a section titled "Explore other OER sites" with a sub-heading "Explore other OER sites". This section contains a grid of resource cards, including "MOULDT", "OER Commons", "OpenCourseWare Consortiums", and "Creative Commons".

# THANKS!



<https://oer.lib.polyu.edu.hk/>