

# AMELIA YAP

## Clinical Research | Data Analyst

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🔗 [github.com/aaysl/portfolio\\_ay](https://github.com/aaysl/portfolio_ay)

📍 Singapore

## SUMMARY

With over two decades of experience in preclinical drug discovery and translational research, excelling in high-throughput laboratory automation, screening, and comprehensive data analysis.

Proficient in Microsoft Excel and Python libraries like Pandas, NumPy, Seaborn, and Matplotlib, deriving actionable insights from complex datasets. Adept and quick learner in various software applications including Microsoft Office Suite, Power Apps Suite, Automation scheduling tools and Laboratory Inventory Management Systems.

In addition, specialization in Quality Assurance and Management, aligned with ISO9001:2015 standards, and certified as an Internal Auditor from TUV SUD.

## SKILLS

Clinical Research

Data Analysis

Data Visualization

Lab Automation

Lab Management

Lab Robotics

High-throughput screening

Inventory Management

ISO9001:2015

Assay Development

Project Management

## TOOLS

Python

TensorFlow

SQL

Power BI

Tableau

Microsoft Excel

Power Query

Power Automate

Graphpad Prism

IDBS Activitybase

MasterControl

Microsoft Office

LIMS

## CERTIFICATION

### SCTP - Associate Data Analyst

NTUC Learning Hub

### The Data Analyst Course: Complete Data Analyst Bootcamp

Udemy

### Microsoft Excel: Business Intelligence w/ Power Query & DAX

Udemy

### PL-900: Microsoft Power Platform Fundamentals

Udemy

### Advanced Data Analytics Professional Certificate

Google

### The Complete SQL Bootcamp: Go from Zero to Hero

Udemy

### Data Analytics Begins With Me

NTU

### MF-COM-305E-1 Apply ISO 9001 Quality Management System (QMS)

TUV SUD

## ACHIEVEMENTS

- + Set up first fully automated high-throughput screening facility in Singapore
- + Made-in-Singapore Cancer Drug ETC-159 enters Clinical Trials

- + Created automated workflow of request to screen to assay-ready plates
- + Discovery of small molecular inhibitors for coronavirus infections

## EXPERIENCE

11/2019 - 10/2023

Location

### Research Manager

#### Experimental Drug Development Centre A\*Star

- Established in-house automated assay requisition system
- Operate and manage several high-throughput automated robotic systems, including liquid dispensing systems, both tip and acoustic
- Large volume Data Analysis and Dashboard creation, using tools such as Python, Excel, Power BI, Graphpad Prism, IDBS ActivityBase
- Manage compound store inventory of over 500,000 unique compounds
- Design/development of assays (enzymatic, cell culture and microbial) and protocol writing, including adaptation to automation processes and miniaturization to 384 or 1536 well formats
- Coordinate high-throughput screening request and equipment use/training from internal and external stakeholders
- System Administrator for LIMS and MasterControl
- Lab Management (including procurement) and Lab safety

05/2015 - 11/2019

Location

### Research Associate

#### Experimental Drug Development Centre A\*Star

- Established and set up new High-throughput screening lab
- Established and set up new automated robotics system
- Operate and manage HTS automated robotics platform and liquid dispensing platforms (tip and acoustic)
- Managed compound store inventory of over 500,000 unique compounds
- Assay Miniaturization (384 and 1536 formats)
- Lab management including supply procurement
- Developed novel screening assay using C elegans and developed enzymatic, cell culture and anti-microbial assays for drug screening
- Large volume Data Analysis and Dashboard creation, using tools such as Python, Excel, Power BI, Graphpad Prism, IDBS ActivityBase
- Co-created in-house Laboratory Information Management System

12/2003 - 05/2015

Location

### Research Associate

#### Novartis Institute for Tropical Diseases

- Development and running of screens against various bacterial and enzymatic platforms in both BSL-2 and BSL-3
- Held key responsibility in maintenance of several robotic and lab equipment
- Responsible for general lab management and lab safety, which included purchase and validation of various laboratory equipment, scheduling for high-risk equipment inspections and purchasing responsibilities
- Established new laboratory setup on lab startup
- Established in-house assay requisition system
- Contributor in guidelines for lab safety
- Underwent training and safety courses for work in a BSL-3 facility

11/2002 - 12/2003

Location

### Biotechnologist

#### Biomedical Research & Support Services Pte Ltd

- Performed bacteria and endotoxin screens for clients
- Responsible for general lab management and lab safety
- In-charge of purchasing and general administrative duties

## EDUCATION

01/2005

### Bachelor in Molecular Biotechnology

#### Curtin University

06/2002

### Diploma in Biotechnology

#### Temasek Polytechnic

## LANGUAGES

English  
Native



Japanese  
Advanced



Chinese  
Intermediate



## REFERENCES

### Choong Meng Ling, PhD

Partnership Director / Drug Discovery Project Lead, Asia Pacific, **Eurofins Discovery**  
[linkedin.com/in/meng-ling-choong-%E9%92%9F%E5%AD%9F%E9%BA%9F-3b9111b/](https://www.linkedin.com/in/meng-ling-choong-%E9%92%9F%E5%AD%9F%E9%BA%9F-3b9111b/cml_email@yahoo.com)  
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### Jeffery Hill, PhD

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### Kevin Pethe, PhD

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