

Kittipos Sirivongrungson

Medical Doctor

Curriculum Vitae

September 2021

- 📍 Department of Physiology Faculty of Medicine Siriraj Hospital, Mahidol University
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- 🌐 Lightbridge-KS

Current Positions

2020 - Present	Internist	Department of Physiology Faculty of Medicine Siriraj Hospital, Mahidol University
2019 - 2020	General Practitioner	Phra Nang Klao Hospital

Educations

2013 - 2018	Doctor of Medicine Second-Class Honours	The Faculty of Medicine Ramathibodi Hospital, Mahidol University
2010 - 2012	Upper-Secondary Education	Triam Udom Suksa School
2007 - 2009	Lower-Secondary Education	Prasarnmit Demonstration School (Secondary)

Medical Competency Assessment

2016	Step 1 <ul style="list-style-type: none">➤ Score: 75.25➤ Percentile: 92.39
2018	Step 2 <ul style="list-style-type: none">➤ Score: 65.33➤ Percentile: 78.43
2019	Step 3 <ul style="list-style-type: none">➤ Score: "Pass"

Academic Trainings

2021	Data Analysis with R Programming — Certificate: Link	Google (Coursera)
2021	Advanced R Programming — Certificate: Link	Johns Hopkins University (Coursera)
2021	Statistical Learning — Certificate: Link	StanfordOnline (edX)
2020	Cell and molecular biology course for postgraduate students	Mahidol University

Other Conferences & Trainings

2021	Development of MCQ Tests for Educational Assessment of Health Care Professionals — Certificate: Link	SHEE
2020	Professional PowerPoint Presentation — Certificate: Link	SHEE

Elective Activities

2016	Electives at Cardiology Unit of Internal Medicine	Faculty of Medicine Ramathibodi Hospital, Mahidol University
2015	Electives at Department of Psychiatry	Faculty of Medicine Ramathibodi Hospital, Mahidol University

Research Experience

Ongoing Analysis **"Factors Associated with Changes in Heart Rate Variability and Baroreflex Sensitivity Following Acute Stroke"**

With: Assoc. Prof. Dr. Wattana Watanapa, MD, PhD

Projects — Web applications

During my internship at the Physiology Department, I have developed various web applications in order to automate tasks and improve workflows that belong to these categories:

E-learning systems:

- **SELECx MCQ Analysis**
 - This web application performs MCQ item analysis of student's quiz report from SELECx.
- **SELECx Combine Quiz**
 - This web application combines score and checks student's submission from SELECx.

Physiology Educations:

- **BTPS calculator**
 - This web application converts lung volumn from ATPS to BTPS.
- **Metabolic rate and Oxygen consumption calculator**
 - This web application predicts metabolic rate and oxygen consumption from Harvard's spirometer tracing as used in exercise studies laboratory class.

Research:

- **Combine HRV and BRS Report file**
 - This web application combines LabChart's HRV Report files from .txt to single Excel table for further data analysis.

Skills

R-programming for Data Science:

- **Exploratory Data Analysis** using **tidyverse packages**
- **Inferential Statistics** using **rstatix package**
- **Supervised Learning** using Linear Regression, Spline and Logistic Regression
- **Unsupervised Learning** using Principal Component Analysis
- **Web application** using **shiny package**
- **Programming Environment** using **RStudio** and **R Markdown**

Other Technical Skills:

- Basic Python and Jupyter Notebook
- Google App Script
- Unix command line
- Google Sheets and Microsoft Excel