# Kittipos Sirivongrungson
Medical Doctor

**Curriculum Vitae**
September 2021

 Department of Physiology Faculty of Medicine Siriraj Hospital, Mahidol University
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## 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**<br>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**
➤ Score: 75.25
➤ Percentile: 92.39

2018 **Step 2**
➤ Score: 65.33
➤ Percentile: 78.43

2019 **Step 3**
➤ Score: "Pass"

## Academic Trainings

| | | |
|---|---|---|
| 2021 | **Data Analysis with R Programming**<br>— Certificate: Link | Google (Coursera) |
| 2021 | **Advanced R Programming**<br>— Certificate: Link | Johns Hopkins University (Coursera) |
| 2021 | **Statistical Learning**<br>— 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**<br>— Certificate: Link | SHEE |
| 2020 | **Professional PowerPoint Presentation**<br>— 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