

# Kittipos Sirivongrungson

## Curriculum Vitae

Lightbridge-KS  
kittipos.sir@gmail.com  
0000-0003-3075-5159

### Work Experience

- 2022 – Present **Residency trainee**, *Department of Diagnostic and Therapeutic Radiology*, Faculty of Medicine Ramathibodi Hospital, Mahidol University
- 2020 – 2022 **Internship**, *Department of Physiology*, Faculty of Medicine Siriraj Hospital, Mahidol University
- 2019 – 2020 **Internship**, *Phra Nang Klao Hospital*, Nonthaburi

### Professional Education

- 2013 – 2018 **Doctor of Medicine** (second-class honor), Faculty of Medicine Ramathibodi Hospital, Mahidol University
- 2010 - 2012 **Triamudom Saksa School** (pathumwan), Bangkok

### Application Projects

#### Radiology

- **TIRADS Calculator**: Calculator for Thyroid Imaging Reporting & Data System [1]
- **DesignCTER**: Generate CT protocols template in emergency department [2]
- **AWC**: Calculate adrenal percentage washout in multiphase CT [3]

#### Physiology

- **Harvard Spirometer Tracing Simulator**: Simulate Harvard Spirometer tracing from mathematical model [4]

### R Package Projects

#### General

- **thaipdf**: R Markdown to PDF in Thai language (CRAN) [5]

#### Education

- **moodleStats**: Perform quiz and item analysis on Moodle Grades Report [6]
- **moodleQuiz**: Combine and manipulate Moodle Quiz Report for grading [7]
- **zoomclass**: Analyze Zoom's participants report and chat file [8]
- **rslab**: Calculate various respiratory physiology parameters [9]

#### Research

- **labChartHRV**: Import and manipulate LabChart's Heart Rate Variability Data [10]

## Additional Training

### Data Science

- **Statistical Learning by StanfordOnline** (edX) – **Certificate**
- **Advanced R Programming by Johns Hopkins University** (Coursera) – **Certificate**
- **Data Analysis with R Programming by Google** (Coursera) – **Certificate**

### Others

- **Cell and molecular biology course for postgraduate students** (Mahidol university)

## Further skills

	Skill	Level	Comment
<b>Computer languages</b>	R		Explored many R's landscapes: including data analysis, stats/ML, also develop R package and web app
	Python		Intermediate user: still learning and advancing my skills
	Julia		Some basic knowledge
	JS / HTML / CSS		Some basic knowledge of web development
	LaTeX / Typst		For presentations, reports, and CV
<b>Software</b>	VS code		Regularly used for software and data analysis work
	RStudio		Quite longstanding experience; used for many R-related work
	Quarto / Jupyter		Literate Programming: used as tools for reproducible & explainable reports
	Git / GitHub		A version control of choice for all of my projects
	Office		longstanding experience (Win/MacOS)
<b>Languages</b>	Thai		Native Thai speaker
	English		Quite decent at reading, writing, and listening. Not fluent at speaking (IELTS Academic test = 7).
	basic knowledge	extensive knowledge	
	intermediate knowledge	expert knowledge	

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## Bibliography

- [1] K. Sirivongrungson, "ACR TI-RADS Calculator." [Online]. Available: <https://kittipos-sir.shinyapps.io/tirads-calculator/>
- [2] K. Sirivongrungson, "DesignCTER." [Online]. Available: <https://github.com/Lightbridge-KS/designCTER>
- [3] K. Sirivongrungson, "Adrenal CT Washout Calculator." [Online]. Available: [https://github.com/Lightbridge-KS/adrenal\\_washout\\_app](https://github.com/Lightbridge-KS/adrenal_washout_app)
- [4] K. Sirivongrungson, "Harvard Spirometer." [Online]. Available: <https://github.com/Lightbridge-KS/HarvardSpirometer>
- [5] K. Sirivongrungson, "thaipdf: R Markdown to PDF in Thai Language." 2022. [Online]. Available: <https://cran.r-project.org/package=thaipdf>
- [6] K. Sirivongrungson, "moodleStats: Analysis of Moodle Quiz Report." 2024. [Online]. Available: <https://github.com/Lightbridge-KS/moodleStats>
- [7] K. Sirivongrungson, "moodleQuiz: A High-level R Package for Manipulation of Moodle Quiz Report." 2024. [Online]. Available: <https://github.com/Lightbridge-KS/moodleQuiz>
- [8] K. Sirivongrungson, "zoomclass: Zoom Class." 2024. [Online]. Available: <https://lightbridge-ks.github.io/zoomclass>
- [9] K. Sirivongrungson, "rslab: Functions for Respiratory System Physiology Lab." 2024. [Online]. Available: <https://github.com/Lightbridge-KS/rslab>
- [10] K. Sirivongrungson, "labChartHRV: LabChart's HRV Data Import and Manipulation." 2024. [Online]. Available: <https://github.com/Lightbridge-KS/labChartHRV>