



Jirachote Karunyakorn

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WORK AND ACADEMIC EXPERIENCE

- **Bluefin Life Technologies** (2022-Present)
 - *Part time Bioinformatician/ Data analyst*
 - Building bioinformatics pipeline for pathway enrichment analysis and model for scoring mode of action of curcumin that response from different cell line.
- **Athena AI** (2022-Present)
 - *Bioinformatician/ Consultant*
 - Building bioinformatics pipeline for variant calling for clinical whole exome and whole genome data.
 - Providing bioinformatics consult to building core workflow of comprehensive bioinformatics software for analyst pathogenic clinical variants.
 - Providing Marketing strategy and tactics including objectives and analysis of competitors.
- **ATGenes Co. Ltd.** (2022-Present)
 - *Clinical bioinformatician/ Data analyst*
 - Building clinical bioinformatics pipeline for mining clinical pathogenic variants that relate to diagnosis from physician from whole exome and whole genome sequencing data.
 - Providing literature review and primary data analyst of suspect pathogenic variant according to ACMG guidelines.
 - Communicating with overseas lab vendor about sample shipment and acquire data for analyst.
 - Writing a medical report of audited pathogenic variants to physician.
 - Research and development new bioinformatics tools and pipeline for analyst whole exome and whole genome sequencing tools.
 - Maintaining whole exome and whole genome sequencing database.
- **Dr. Pornchai's lab at Department of Biochemistry, Faculty of Medicine Chulalongkorn University** (2020-2022)
 - *Graduate student and researcher*
 - Main project: Computational workflow development for identification of polyadenylated RNA in prokaryote from direct RNA nanopore sequencing data with polyuridylation

- Collaborate project: Using Xpore to build M⁶-Methyladenosine (m6a) signal database
- Advisor Pornchai Kaewsapsak Ph.D.
- **EPA Academic Center** (2022)
 - *Part-time biology teacher*
- **Math talent by Dr. Ying** (2021-2022)
 - *Part-time science teacher*
- **Dr. Warut's lab at Department of Biology, Faculty of Science, Mahidol University** (2019-2020)
 - *Undergraduate student*
 - Project title: Comparative phylogeny and DNA barcode of Asian Centipede in genus *Scolopendra* linnaeus, 1758
 - Advisor Warut Siriwut Ph.D.
- **Freelance** (2018-Present)
 - *Biology tutor*

EDUCATION

- **Chulalongkorn University** (2020-2022)
 - Graduated school, M.Sc. in Bioinformatics and Computational Biology Program
 - GPAX 4.00
- **Mahidol University** (2016-2019)
 - Faculty of Science, B.Sc. in Biology
 - GPAX 3.71 (First Honor degree)

AWARDS

- **H.M. the King Bhumibhol Adulyadej's 72nd Birthday Anniversary Scholarship (fully funded)** (2020)
Graduated student scholarship with full paid tuition fee and monthly salary
- **MU-backpack scholarship (fully funded)** (2018)
The short-term cultural exchange study in Vietnam
- **HOK scholarship (half funded)** (2015)
The short-term exchange secondary student in Singapore

WORK SKILLS

- Bioinformatics
 - Retrieval of information and data mining (NCBI, ensemble, KEGG, etc.)
 - DNA/RNA sequencing analysis (Sanger, illumina, Oxford Nanopore)

- Programming language (Python, R, SQL and Linux)
 - Basic Linux command line for HPC server
 - Basic SQL command
 - Bioinformatics command line software (samtools, GATK, bioconda tools, etc.)
 - Data visualization (ggplot, dplyr, matplotlib, etc.)
 - Data analysis (Pandas, Scipy, Numpy, etc.)
- Basic laboratory skill
 - DNA/RNA extraction and purification
 - PCR and gel electrophoresis
- Microsoft software skill
 - MS Word
 - MS Excel
 - MS PowerPoint
- Critical thinking and initiative
 - Investigate, Analyze, summarize, and report research data to colleagues
 - Eager to learn new things
- Communication and collaboration
 - Good teamwork and communication with colleagues
 - Growth and positive mindset

LANGUAGES

- Thai (Native)
- English (Basic Working Proficiency, TOELF ITP 513)
- Japanese (Basic, JPLT N5)