CHI NGUYEN

Tampere, Finland ● chihuulinh.nguyen@gmail.com ● (+358) 44 986 4187

EDUCATION

BA Science and Engineering, *Tampere University*
MA Biomedical Informatics, *Tampere University*

PROFESSIONAL EXPERIENCE

Bio-composites Group – *Research Assistant* April 2021 – Dec 2022

- Conducted ex vivo experiments to assess the emission of green and red lights when exciting a scaffoldthrough chicken skin using a 980nm wavelength for *drug delivery application*.
- Achieved a 15% reduction experimental variability through optimized protocols and techniques, resulting in *3 publications* and multiple datasets generated. (*ORCID: https://orcid.org/0000-0001-8274-6110*)
- Collaborated closely with a team of 10 scientists, participating in monthly collaborative meetings forindividuals' projects feedback and idea.
- Supported the laboratory team by ensuring proper maintenance of equipment and compliance with safety protocols.

RELEVANT SKILLS

Medical Biomaterials | Processing of Bio-signals | Regulatory Compliance | Computational Diagnostic of Data | Data Recording and Analysis (Excel, MATLAB, R, Python, Origin)

HIGHLIGHTED PROJECT EXPERIENCE (*GitHub: https://github.com/chinguyen19*)

Sleep Quality Study using EMFIT QS device – *Behavioral Health Informatic* April 2022

- *Conducted a comprehensive study* on the impact of evening physical activity on sleep quality in adolescents.using smartwatches and EMFIT QS devices, supported by daily questionnaires.
- Analyzed data with Python and Matlab, uncovering key insights to guide the development of innovativebiosensors for future wearable devices.

Computational Drug Discovery – *Predictive model for Bioactivity Project* November 2023

- *Developed predictive models* for assessing the bioactivity of Acetylcholinesterase inhibitors, crucial **for** *drug discovery in neurodegenerative diseases.*
- Employed quantitative structure-activity relationship (QSAR) modeling techniques to understand therelationship between chemical structure and biological activity.
- Utilized computational simulations and machine learning algorithms to screen potential drug candidates.

Biological Data analysis – *Transcriptome Analysis Project* August 2023

- Conducted transcriptome analysis on fresh-frozen tissue specimens from clinical experiments, comparing 28 prostate cancers, 13 cases of locally recurrent castration-resistant prostate cancer (CRPC), and 12 benign prostatic hyperplasia (BPH) samples.
- *Analyzed large datasets* to uncover molecular mechanisms underlying disease progression and treatmentresistance, contributing to oncology research efforts.

Diabetes Risk Assessment using FHIR database – *Health Informatics Project* May 2024

- Developed a diabetes-risk calculator based on the CANRISK model, *utilizing the FHIR database to facilitate early detection* and proactive management of diabetes.
- Engineered a functional user interface and backend, seamlessly integrating a real-time FHIR database, demonstrating the potential of real-time data in enhancing diabetes risk assessment.