# CHING-YI LIN

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## EDUCATION

**Ph.D. Candidate in Electrical Computer Engineering** *August 2018 - Present*
Carnegie Mellon University, Pittsburgh
Master degree received on Dec 2022
Prospectus exam passed on Jan 2023
Advisor: Marc Dandin (2020-Present), Daniel Bankman (2020), Radu Marculescu (2018-2019)

**B.S. in Electrical Engineering** *August 2013 - June 2017*
National Tsing Hua University (NTHU), Hsinchu, Taiwan

## HONORS AND AWARDS

**CMLH Translation Fellowship** *2024*
Towards Long-term Data-driven Assays with Non-Visual Sensors

**Carnegie Institute of Technology Dean's Fellow** *2018*

## WORK EXPERIENCE

**Apple** *May 2021 - Aug 2021*
Digital Circuit Design Intern
Customized SRAM cell design and evaluation in schematic-level

## PUBLICATION (THE MOST RECENT FIRST-AUTHOR)

**Towards a Lab-on-a-Chip as a Service (LoCaaS) Framework for In Vitro Cancer Cell Assays** *June 2024*
Ching-Yi Lin, Yann Gilpin, Zixin Chen, Elizabeth Wayne, Marc Dandin
2024 IEEE 22nd Interregional NEWCAS Conference

**Machine Learning Identification and Classification of Cancer Cell Behaviors in a Lab-on-CMOS Capacitance Sensing Platform** *May 2024*
Ching-Yi Lin, Marc Dandin
TechRxiv. DOI: 10.36227/techrxiv.171710162.20881219/v1

**Model Personalization for Human Activity Recognition** *March 2020*
Ching-Yi Lin, Radu Marculescu
The Fourth International Workshop on Smart Edge Computing and Networking (SmartEdge 2020)

## PATENTS

**System and Method to Measure CAR-T cell quality**
Marc Dandin and Ching-Yi Lin
U.S. Patent #0366873, November 2023

## BOOK AND BOOK CHAPTERS

**CMOS Bioelectronics: Current and Future Trends** *December 2022*
A chapter in *Bioelectronics: Materials, Technologies, and Emerging Applications*, CRC Press, 2022
ISBN: 9781032203133