



# Kristina P. Sinaga

kristinaps25 | Kristina P. Sinaga | Kristina P. Sinaga

*"A job well done is its own reward. You take pride in the things you do, not for others to see, not for the respect, or glory, or any other rewards it might bring. You take pride in what you do, because you're doing your best. If you believe in something, you stick with it. When things get difficult, you try harder."*

## Summary

I earned my PhD in Applied Mathematics, in June 2020. I am very passionate about developing intelligent pattern recognition algorithms, especially for single and multi-view learning. I have a proven track record of success in this area and am proficient in various machine learning techniques, including classification, feature selection/reduction, parameter estimation, regression, and clustering. To test my proposed algorithms on large dataset, mostly I used programming tools like Matlab, Python, and R. Currently, I am learning and focusing in developing clustering algorithm using tensor-based approaches.

## Work Experience

### Chung Yuan Christian University

*Taoyuan, Taiwan*

POST-DOCTORATE FELLOW

*March 2023 - Present*

- Develop novel algorithms for clustering or tensor-based clustering that can be applied to large, complex data sets (Multi-view data).
- Publish research findings in high-impact journals.

## Education

### CYCU (Chung Yuan Christian University)

*Taoyuan, Taiwan*

PH.D. IN APPLIED MATHEMATICS

*Sept. 2016 - Jun. 2020*

- Thesis title: Multi-View Fuzzy Clustering Algorithms for Multi-View Data
- Advisor: Prof. Miin-Shen Yang
- CGPA: 3.842

### USU (University of Sumatera Utara)

*Medan, Indonesia*

MS. IN MATHEMATICS

*Dec. 2013 - Dec 2015*

- Thesis title: Model Optimasi Stokastik Penentuan Lokasi dan Jumlah Ambulan dengan Korelasi (in Bahasa Indonesia)
- CGPA: 3.78
- Advisors: Prof. Herman Mawengkang and Dr. Esther Nababan

### USU (University of Sumatera Utara)

*Medan, Indonesia*

B.S. IN MATHEMATICS

*Aug. 2011 - Aug. 2013*

- Thesis title: Analisis Pengaruh Produk Domestik Regional Bruto, Pendidikan dan Pengangguran terhadap Kemiskinan di Kabupaten/Kota Propinsi Sumatera Utara (in Bahasa Indonesia)
- CGPA: 3.30
- Advisors: Prof. Tulus and Dr. Open Darnius

## Honors & Awards

### INTERNATIONAL

2020	<b>Honorary member</b> , The Phi Tau Phi Scholastic Honor Society of The Republic of China	<i>CYCU, Taiwan</i>
2019	<b>Recipient</b> , MOST Travel Grant	<i>Taipei, Taiwan</i>
2018	<b>Recipient</b> , Japan Science and Technology Agency ( JST)	<i>Niigata, Japan</i>
2017	<b>Recipient</b> , Japan Student Service Organization ( JASSO)	<i>Niigata, Japan</i>
2016	<b>Recipient</b> , CYCU International Student Scholarship	<i>CYCU, Taiwan</i>

## Certifications

2022	<b>Coursera-DeepLearning.AI TensorFlow Developer Professional</b> , Instructor: Laurence Moroney	<i>Online Courses</i>
2022	<b>Coursera-Machine Learning Specialization</b> , Instructor: Andrew Ng	<i>Online Courses</i>
2020	<b>Coursera-Learning to Teach Online</b> , Instructor: Associate Professor Simon McIntyre & Dr Negin Mirriah	<i>Online Courses</i>