

Kristina P. **Sinaga**

🖸 kristinaps25 | 🛅 Kristina P. Sinaga | 📂 Kristina P. Sinaga

"Be the change that you want to see in the world."

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

Taovuan, 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.

Lecturer Jakarta, Indonesia

Nov. 2020 - April 2022

Chung Yuan Christian University

Taoyuan, Taiwan

PHD STUDENT RESEARCHER

 Conducted research to produce new knowledge, applications or insights at the cutting edge of the discipline. • Adapted the research plan in light of unexpected problems.

• Developed algorithms for single and multi-view learning.

Sep. 2016 - Jun. 2020

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
- · Got CYCU International Student Scholarship which is given to the top 25% students of their department academically.
- Attended dozens of seminars by experts in computational mathematics, scientific computing, and/or data science.
- Developing friendly unsupervised learning algorithms like relational mountain clustering method (ICAISC 2018), k-means (IEEE Access 2019, IEEE Access 2020, IEEE Access 2021), and Fuzzy c-means (Pattern Recognition 2021) to give high-quality results and support intelligent action, such as determining the number of clusters, feature selection, feature reduction, and collaborative learning.
- Worked as a part-time teacher in the YinFuBan Program of the university.

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

MAY 28, 2023 SINAGA, KRISTINA P. RESUME

Honors & Awards

INTERNATIONAL

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

Certifications _____

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