# CEDRIC PARFAIT KANKEU FOTSING

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# Objective

I have close to two decades of experience in computer science and close to a decade of experience in data analytics. Especially in social network analysis, data science for epidemics, and data science for public policy. I always strive to leverage my acquired skills to have a positive impact locally and globally.

# Education

Education	
National Tsing Hua University, Hsinchu, Taiwan PhD in Computer Science with Specialization in Data Science	07 2023
• Supervisors: Prof. De-Nian Yang (Academia Sinica) Prof. Yi-Shin Chen (National Tsing Hua University)	
Xidian University, Xian, China Master of Science in Circuit and System	03 2014
• Supervisor: Prof. Yang Gang (Xidian University)	
University of Dschang, Dschang, Cameroon Bachelor of Science in Computer Science and Mathematics	08 2009
Languages	
French: Native language English: Speaking (fluent), Reading (fluent), Writing (fluent) - IELST 7.5 Mandarin: Speaking (good), Reading (fair), Writing (fair) - HSK 4 Teaching Experience	
Academia Sinica: Teaching assistant for the natural language processing course Xidian University: Teaching assistant for the introduction to ASIC programming course Various school and universities: English and french language teacher	
Technical Skills	
Technologies: Social networks analysis, big data analytics, cloud computing, Interaction design, Em Software & Tools: Microsoft Word, Excel, PowerPoint, Overleaf, Adobe Acrobat, Eclipse Operating Systems: Windows, Linux, Mac OS Experience	nbedded systems design
Academia Sinica, IIS	$09 \ 2016 - 07 \ 2023$
Research Assistant	Taipei, Taiwan
• Write research proposals	1
• Identify novel and critical research problems	
• Formulate clearly the identified problems	
• Design efficient and effective AI-based solution framework	
• Gather and preprocess different OSNs, LBSNs and other mobility datasets	
• Design the evaluation process, implement the proposed solutions and perform the evaluation	
• Write research articles	
• Present different research from the Lab to various audiences	
• Teaching assistant for the Natural Language Processing course	
Udacity	$02 \ 2017 - 10 \ 2020$
Data Science Mentor	Online
• Providing guidance to students on the Udacity platform regarding their training on self-driving	cars
Providing theoretical insights on AI more specifically neural networks Draviding Dragmanning insights on Brthan libraries including NumPr. SeiPr. Bandag. Matplet	lih Tongonflorr D-T-1
• Providing Programming insights on Python libraries including NumPy, SciPy, Pandas, Matplot	
Xidian University Research Assistant	<b>09 2011</b> – <b>03 2014</b> Xian, China
• Teaching assistant for the Introduction to ASIC programming course	110010, 0100100
• Designing, implementing and evaluating a data mining-based Chinese medicine examination sys	stem.

- Designing, implementing and evaluating a data mining-based Chinese medicine examination system.
- Perform weekly progress report
- Guide bachelor students in writing their end of studies reports

Projects Live multi-streaming soirce organization | C++, Java, Python, SQL, Linux, Twitch Git $09\ 2017 - 09\ 2023$ • I conducted the design of an automatic organizer for multi-streaming in groups. • I conducted the implementation, the user study evaluation on an online streaming platform (i.e., Twitch), and the evaluation against state-of-the-art baselines • I conducted the implementation of the baselines with c++, Python and Java • I wrote the project report of the system Spatial Crowdsourcing Organzer with Epidemic Control | C++, Python, SQL, Linus, LBSNs Git 04 2022 - 03 2023 • I leverage SQL and Python to gather and process user mobility data from LBSNs, and epidemic datasets • I implemented the spatial crowdsourcing task assignments framework with C++ • I implemented the baselines with C++ and Python • I performed the evaluation of the framework on Linux servers • I wrote the project report **POI Recommendation with Epidemic Containment** | C++, Python, SQL, Linus, LBSNs Git  $07 \ 2021 - 03 \ 2022$ • I gathered and processed epidemic and mobility datasets with SQL and Python. • I implemented the framework and some baselines with C++ • I implemented the ML-based baselines with Python • I conducted the evaluation of the framework on Linux servers • I wrote the project report and performed the project presentation  $09 \ 2018 - 05 \ 2020$ Outdoor group activity organizer | C++, Python, SQL, Linus, LBSNs Git • I conducted the gathering and processing of LBSN datasets with Python and SQL • I conducted the design of an automatic outdoor group activity organizer for LBSNs • I conducted the implementation and evaluation with C++ and Python on Linux servers • I wrote the project report and performed the project presentation context-aware instant messenger for lunch platform | Git  $05\ 2018 - 01\ 2019$ • I leverage interaction design principles to participate in the design, prototype and testing of the platform • I also co-wrote the project report **Publications** C. P. Kankeu Fotsing, Chih-Ya Shen, De-Nian Yang, Yi-Shin Chen, Wang-Chien Lee." On Efficient Processing of Queries for Live Multi-Streaming Soiree Organization. " IEEE TSC, 2023. Cedric Parfait Kankeu Fotsing, Guang-Siang Lee, Ya-Wen Teng, Chih-Ya Shen, Yi-Shin Chen, and De-Nian Yang." On Spatial Crowdsourcing Query under Pandemics." IEEE MDM, 2023. Cedric Parfait Kankeu Fotsing, Ya-Wen Teng, Guang-Siang Lee, Chih-Ya Shen, Yi-Shin Chen, and De-Nian Yang. "On Epidemic-aware Socio Spatial POI Recommendation." IEEE MDM, 2022. Kankeu Fotsing, C. P., Ya-Wen Teng, Sheng-Hao Chiang, Yi-Shin Chen, and Bay-Yuan Hsu. "Activity Organization Queries for Location-Aware Heterogeneous Information Network." Dasfaa, 2021 Awuor Fredrick, Sarah Otanga, Kankeu FC Parfait, Dorothy Rambim, Jane Maina. "Context-Aware Instant Messenger for Lunch Invitation." IEEE AFRICON, 2019. Chih-Ya Shen, C. P. Kankeu Fotsing, De-Nian Yang, Yi-Shin Chen, Wang-Chien Lee. "On Organizing Online Soirces with Live Multi-Streaming. " AAAI, 2018. **Conferences and Talks** 

IEEE MDM 2022: Long paper presentation, https://www.youtube.com/embed/OsU01UCbgys

### Certifications

Certificate 1, 11 2022: Create Machine Learning Models in Microsoft Azure https://www.coursera.org/account/accomplishments/certificate/9F774Y6P3L8E Certificate 2, 11 2022 : Ashoka Social Intrapreneurship for Innovation in Health Certificate 3, 10 2020 : Udacity Mentorship Nano-Degree Program Certificate https://graduation.udacity.com/confirm/PDG9CWSQ Certificate 4, 02 2017 : Machine Learning by Stanford University on Coursera

https://www.coursera.org/account/accomplishments/certificate/7NRQSA3DS9YY

### **Competitions and Awards**

Feed the Future : Finalist of the Fall Armyworm Tech Prize 2018 organized by Feed the Future under USAID Xidian University: Selected for a presentation at Xidian University Most Innovative Project Competition 2012-2013 Provincial Chinese Language Competition: Selected for the 2nd round of the 2013 edition" Xidian University: Best foreign student dissertation in Chinese language 2010-2011 Others

Hobbies: Reading, Football, Jogging, Music, Movies— Personality: Team player, Self-motivated, Fast learner, Open-minded