

An La

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EDUCATION

- 2021 - present Ms/PhD (Computer Science) at **University of Massachusetts Amherst** (GPA: 3.76/4.0)
Advisor: [Dr. Hung Le](#)
Selective taken courses: Algorithms with Predictions, [Randomized Algorithms](#), [Probabilistic Graphical Model](#), [Distributed and Operating Systems](#).
- 2013 - 2017 Bachelor's Degree at **Honors Program, VNU-HCMUS, Vietnam** (GPA: 3.57/4.0)
Information Technology, Graduated with distinction.
Selective taken course: Parallel Programming with GPU, Data Storing and Recovering

PUBLICATIONS

- La, A.**, & Le, H. (2024, August). *Dynamic Locality Sensitive Orderings in Doubling Metrics*.
<https://arxiv.org/abs/2408.14617>.
- La, A.**, & Le, H. (2024, August). *New weighted additive spanners*. <https://arxiv.org/abs/2408.14638>.
- La, A.**, Vo, P., & Vu, T. (2019, July). *Adaptive Collaborative Filtering for Recommender System*. In International Conference on Conceptual Structures (pp. 117-130). Springer, Cham.
https://doi.org/10.1007/978-3-030-23182-8_9

WORKING EXPERIENCE

- 2021 - now: **Research/Teaching Assistant at Theory CS Group/UMass Amherst**
Main research: Data structures for Computational Geometry (Spanners, Locality Sensitive Orderings).
Side projects: Learned Index Structures, Online TSP with Machine Learning advice.
Teaching Assistant: [Algorithms for Data Science](#), [Advanced Algorithms](#)
- 2020 - 2021: **Data Scientist at PrimeData.AI, Vietnam** [github/anla11/analytic_marketing](https://github.com/anla11/analytic_marketing)
Design an automatic framework for Segment Analytics, which enables many marketing applications, including Business Identity and customer-centric features (Behavioural Similarity Search, Customer Journey Tracking, and Customer Engagement Campaign). The main technical approach included Bayesian Machine Learning and Probabilistic Programming.
- 2017 - 2019: **Data Scientist at FPT Telecom, FPT Group, Vietnam** [github/anla11/adaptive_cf_recsys](https://github.com/anla11/adaptive_cf_recsys)
Design and deploy a Graph-based model dealing with multiple evaluation metrics for the recommender system of fptplay.vn. The model increased 6% on precision and remained close to the best of previous methods on diversity, coverage and congestion. The balance between these metrics is tunable by parameters.

SKILLS

- Theoretical skills Data Structure Design, Algorithmic Analysis, Statistics and Probability.
- Programming skills Machine Learning (Tensor Flow, PyTorch, Scikit-Learn), Data Analysis and Visualization (Numpy, Pandas, Seaborn), Image Processing (OpenCV). Proficient in C/C++, Python

SELECTIVE AWARDS

- Dec. 2016 National Vietnam award for Outstanding Female Students in Science and Technology
- Aug. 2016 Awards from Facebook Hackathon Vietnam 2016
1st prize of Most Innovative Product
2nd prize of Best Product in Facebook Marketing Category
- 2014 2nd prize in ACM-ICPC Vietnam National 1st Round
- 2013 3rd prize in Informatics at the Vietnam National Excellent Student Exam