

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)
Graduated with distinction.

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
- La, A. N. T.***, Nguyen, D. P.*, Pham, N. M., & Vu, Q. H. (2018). *Multi-modal video retrieval using Dilated Pyramidal Residual network*. Science and Technology Development Journal-Natural Sciences, 2(5), 138-143.
<https://doi.org/10.32508/stdjns.v2i5.789>¹

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 system 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 includes 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.

ACADEMIC ACTIVITIES

- June. 2024 [DIMACS Tutorial on Fine-grained Complexity](#)
Jan. 2024 SODA 2024 Symposium on Discrete Algorithms
Nov. 2022 [FOCS 2022 IEEE 63rd Annual Symposium on Foundations of Computer Science](#)
Aug. 2022 [FODSI Sublinear algorithms summer school and workshop](#)
June. 2019 Online attending and presenting at the 24th International Conference on Conceptual Structures (ICCS 2019) - https://iccs-conference.org/?page_id=583
Aug. 2017 Attending the 3rd Workshop on Statistical Modeling and Applications at VNU-HCMUS
Topic: Bayesian Models Inference and Statistical Decision Making

¹*These authors contributed equally to the work.