

Kien Duy Nguyen

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EDUCATION

University of Southern California 2015 - present
Viterbi School of Engineering, Department of Computer Science
Doctor of Philosophy Los Angeles, CA

Hanoi University of Science and Technology 2008 - 2013
School of Information and Communication Technology, Talent Engineer Program
Degree of Engineer Hanoi, Vietnam

RESEARCH INTEREST

Location privacy, spatial-temporal data mining, data marketplaces

PUBLICATIONS

“Geofence Decision Theory for Sporadic Location Measurements”, Kien Nguyen, John Krumm (*submitted*)

“Spatial Privacy Pricing: The Interplay between Privacy, Utility and Price in Geo-Marketplaces”, Kien Nguyen, John Krumm, Cyrus Shahabi, *ACM SIGSPATIAL’20*, Seattle, WA, 2020

“A secure location-based alert system with tunable privacy-performance trade-off”, Gabriel Ghinita, Kien Nguyen, Mihai Maruseac, Cyrus Shahabi, *GeoInformatica (2020)*

“A Privacy-Preserving, Accountable and Spam-Resilient Geo-Marketplace”, Kien Nguyen, Gabriel Ghinita, Muhammad Naveed, Cyrus Shahabi, *ACM SIGSPATIAL’19*, Chicago, IL, 2019

“Artificial Intelligence for Improving Access to Sexual Health Necessities for Youth Experiencing Homelessness“, A. Rahmattalabi, L. Onasch-Vera, O. Roybal, K. Nguyen, L. Tran, R. Petering, E. Rice, M. Tambe, *Artificial Intelligence and Social Work*, 2018

“Los Angeles Metro Bus Data Analysis Using GPS Trajectory and Schedule Data (Demo Paper)”, K. Nguyen, J. Yang, Y. Lin, J. Lin, Y. Chiang, C. Shahabi, *ACM SIGSPATIAL’18*, Seattle, WA, 2018

“Differentially Private Publication of Location Entropy”, Hien To*, Kien Nguyen*, Cyrus Shahabi, *ACM SIGSPATIAL’16*, San Francisco, CA, 2016

“Exploiting Direct and Indirect Information for Friend Suggestion in ZingMe”, K. D. Nguyen, T. P. Minh, Q. N. Nguyen and T. T. Nguyen, NIPS workshop on *Frontiers of Network Analysis: Methods, Models, and Applications*, Lake Tahoe, NV, 2013

WORKING EXPERIENCE

USC, CSI-Cancer Institute 2018 - 2020
Research Assistant Los Angeles, CA
Designed and implemented back-end and front-end systems for cancer-related clinical trials

Facebook Inc., Applied Privacy Technology team 2020
Software Engineer Intern Menlo Park, CA
Algorithms for a new location privacy definition

Microsoft Corporation, Microsoft Research 2019
Research Intern Redmond, WA

USC, Integrated Media Systems Center 2016 - 2019
Research Assistant Los Angeles, CA
Analyze Los Angeles Metro bus data using GPS trajectory and schedule data

VNG Corporation 2012 - 2015
Software Engineer Hanoi, Vietnam
Built recommender systems for friend, news, and blog for ZingMe, a social network in Vietnam.

TEACHING EXPERIENCE

Introduction to Software Development, Teaching Assistant, **USC** 2015 - 2017

Machine Learning for Data Informatics, Teaching Assistant, **USC** 2015