Ritesh Ahuja

PERSONAL
INFORMATION

Nationality	Indian
Address	RTH 323, 3710 McClintock Ave., Los Angeles, California, U.S.A
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RESEARCH
INTERESTS

Statistical Inference, Geo-Social Networks, Spatial/Temporal data management, Location Privacy, Differential Privacy, Data Modelling

EDUCATION

University of Southern California, U.S.A. *Aug 2016–present*
Ph.D. in Computer Science, CGA 3.96/4.0
under supervision of Prof. Cyrus Shahabi

Hong Kong University of Science and Technology, HKSAR. *Sept. 2013–Jun. 2016*
M.Phil. in Computer Science and Engineering, CGA 3.9/4.0,
graduated under the supervision of Prof. Dimitris Papadias

Hong Kong University of Science and Technology, HKSAR. *Sept. 2010–Aug. 2013*
Bachelor of Engineering in Computer Science, CGA 3.6,
graduated with *First Class Honors*

University of California Santa Barbara, California, U.S.A. *January–June 2012*
Exchange student in EAP program.

PUBLICATIONS

Ritesh Ahuja, Gabriel Ghinita, Cyrus Shahabi.
"Differentially-Private Next-Location Prediction with Neural Networks"
ACM International Conference on Extending Database Technology (EDBT), 2020.

Mingxuan Yue, Yaguang Li, Haoze Yang, **Ritesh Ahuja**, Yao-Yi Chiang, Cyrus Shahabi .
"DETECT: Deep Trajectory Clustering for Mobility-Behavior Analysis"
IEEE BigData, 2019.

Ritesh Ahuja, Gabriel Ghinita, Cyrus Shahabi.
"A Utility-Preserving Technique for Protecting Location Data with Geo-Indistinguishability"
ACM International Conference on Extending Database Technology (EDBT), 2019.

Ritesh Ahuja, Nithin Krishna, Gabriel Ghinita, Cyrus Shahabi.
"Preserving Co-location privacy against Inference Attacks." IEEE International Conference on Computer Communications and Networks, 2019.

Ritesh Ahuja, Nikos Armenatzoglou, Dimitris Papadias.
"Geo-Social Ranking: Functions and Query Processing."
Very Large Data Bases Journal (VLDBJ), 2015.

Ritesh Ahuja, Nikos Armenatzoglou, Dimitris Papadias and George Fakas.
"Geo-Social Keyword Search." Proceedings of the International Symposium on Spatial and Temporal Databases (SSTD), Hong Kong, 2015.

WORKING PAPERS

Ritesh Ahuja, Gabriel Ghinita, Cyrus Shahabi.
Local Geo-Indistinguishability for Location-Recommendation.

Ritesh Ahuja, Sepanta Zeighami, Gabriel Ghinita, Cyrus Shahabi.
(ϵ, δ)-geoindistinguishability and the Sampled Gaussian Mechanism for continuous location release.

Ritesh Ahuja, Sepanta Zeighami, Cyrus Shahabi.
Differentially-Private Clipping strategies for a converging SGD on neural networks.

EXPERIENCE

Ludwig-Maximilians-Universitt Mnchen, Munich, Germany.   *Summer 2015*
Department of Computer Science, Database Systems Group
- Worked as an visiting scholar on geo-spatial data analytics related projects.
- Supervisor: Prof. Dr. Matthias Renz

Teaching Assistant at HKUST, U.S.C.   *Spring 2015–present*
Department of Computer Science
- Worked as teaching assistant for graduate and postgraduate courses.

Bharti Airtel Limited, Gurgaon, India.   *Summer 2011*
Department of Information Technology
- Worked as an intern on database design and efficient text-based content search.

PROFESSIONAL
ACTIVITIES
- External reviewer for ICDE, SIGMOD, PVLDB, VLDBJ, ICDE, SIGSPATIAL, SSTD, KAIS, INS, IJGIS, TIFS

AWARDS AND
SCHOLARSHIPS

Viterbi-Graduate School PhD Fellowship   *2016-present*
postgraduate scholarship from University of Southern California.

HKUST Dean's List Award   *2012-14*
for academic excellence in undergraduate and postgraduate coursework.

HKUST Distinguished Final Year Project Award   *August 2013*
awarded to the top 5 projects in the final year of degree.

TECHNICAL SKILLS
- Preferred Language: C, C++. Working Knowledge: Java, Python
- Coursework/projects in Databases Design (SQL),
  Webpage design (HTML, PHP, JavaScript & AJAX.)
- Others: Machine learning (PyTorch, Gensim) and Deep Learning (Tensorflow, Keras)

REFERENCES   Available upon request from:
- Professor **Cyrus Shahabi** http://infolab.usc.edu/Shahabi/
- Professor **Gabriel Ghinita** https://www.cs.umb.edu/~gghinita/
- Professor **Dimitris Papadias** http://www.cse.ust.hk/faculty/dimitris/
- Dr. **Nikos Armenatzoglou** http://home.cse.ust.hk/~nikos/