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CONTACT INFORMATION	3650 McClintock Ave, Los Angeles, CA 90089, United States	(323) 979-1693 sshaham@usc.edu
RESEARCH INTEREST	Machine Learning, Statistics, Privacy, Coding & Information Theory	
EDUCATION	<b>Doctor of Philosophy</b> , Computer Science University of Southern California, Los Angeles, CA	2020 - Present
	<b>Master of Philosophy</b> , Engineering and Information Technology University of Sydney, Australia	2017 - 2019
	<ul style="list-style-type: none"><li>Thesis Title: Location Privacy in the Era of Big Data and Machine Learning</li></ul>	
	<b>Master of Science</b> , Engineering Business Management University of Warwick, UK	2014 - 2015
	<ul style="list-style-type: none"><li>Thesis Title: User Acceptance of Location-Based Mobile Applications</li></ul>	
	<b>Bachelor of Engineering with Honours</b> , Electrical and Electronic Engineering University of Manchester, UK	2011 - 2014
	<ul style="list-style-type: none"><li>First Class Honours</li><li>Thesis Title: Rescaling Digital Human Phantoms</li></ul>	
HONORS & AWARDS	<ul style="list-style-type: none"><li>University of Southern California Graduate Fellowship</li><li>University of Sydney Postgraduate Award (APA)</li><li>University of Sydney Norman-I Prize</li><li>University of Sydney International Scholarship (tuition waiver plus \$ 26,000 per annum)</li><li>University of Warwick Tuition Waiver</li><li>Silver Medal in the National Mathematics Olympiad, Iran</li><li>Bronze Medal in the National Computer Science Olympiad, Iran</li><li>Membership in National Elites Foundation, Iran</li></ul>	2020 2019 2018 2017 2014 2010 2009 2009
PROFESSIONAL EXPERIENCE	<b>Lecturer</b> King's Own Institute, NSW, Australia Units Instructed: <ul style="list-style-type: none"><li>Discrete Mathematics</li><li>Introduction to Computer Science</li><li>Database Design and Development</li></ul>	March 2020 - July 2020
	<b>Research Assistant</b> University of Technology Sydney, NSW, Australia, Project: Workload Optimization on Edge Computing Mobile Networks.	Nov. 2019 - Jan. 2020
	<b>Teaching Assistant</b> University of Sydney, NSW, Australia, Units:	March 2017 - Dec. 2020

- Internet of Things for Critical Infrastructure
- Signals and Systems
- Introduction to Computer Systems
- Entrepreneurship for Engineers
- Data Communications and the Internet

**Python Developer**

Sep. 2018 - Feb. 2019

University of Sydney Business School, NSW, Australia

Designed and implemented three projects with Raspberry Pi published on the website of the business school as guidelines for postgraduate students.

Supervisor: Dr. Mahyar Shirvanimoghaddam

**Data Scientist**

May 2018 - Aug. 2018

InDebted, NSW, Australia

- Implemented Supervised Machine Learning models, such as Logistic Regression, Random Forest, and Decision Tree.
- Implemented Unsupervised Machine Learning algorithms such as K-means.
- Organized Relational Databases using SQL.

**Intern, Computer Network Administrator**

Summer 2015

HBD Services, NSW, Australia

**Intern, Research Assistant**

Summer 2013

University of Manchester, UK

Studied Multi-frequency induction systems (used in brain tomography).

**Intern, Research Assistant**

Summer 2012

University of Manchester, UK

Worked on an innovative approach for controlling stepper motors via Bluetooth.

COMPUTER SKILLS

- Programming Languages: Python, TensorFlow, SQL, C/C++, JAVA, Matlab
- Visualization: Tableau and LATEX
- Cisco Certified Network Professional (CCNP) in Routing and Switching

CITATION RECORD

Link to my Google Scholar Profile:

<https://scholar.google.com/citations?user=WnWN4NkAAAAJ&hl=en&oi=ao>

TECHNICAL REVIEWER

- IEEE Transaction on Wireless Communications
- IEEE Transaction on Communications
- IEEE Transaction on Signal Processing
- IEEE Transactions on Mobile Computing
- IEEE Transactions on Cognitive Communications and Networking
- IEEE Wireless Communications Letters
- IEEE Access
- Conferences: Globecom, WCNC, ICC

JOURNAL  
PUBLICATIONS

1. Liu B, Ding M, **Shaham, S.**, Rahayu W, Farokhi F, Lin Z, "When Machine Learning Meets Privacy: A Survey and Outlook" in ACM Computing Surveys, March 2021.
2. **Shaham, S.**, Ding, M., Liu, B., Dang, S., Lin, Z. and Li, J., "Privacy preservation in location-based services: a novel metric and attack model" in IEEE Transactions on Mobile Computing (TMC), May 2020.
3. **Shaham, S.**, Ding, M., Liu, B., Dang, S., Lin, Z. and Li, J., "Privacy Preserving Location Data Publishing: A Machine Learning Approach" in IEEE Trans. on Knowledge and Data Engineering (TKDE), January 2020.
4. Wang, Z., Dang, S., **Shaham, S.**, Zhang, Z. and Lv, Z., "Basic Research Methodology in Wireless Communications: The First Course for Research-Based Graduate Students" in IEEE Access, vol. 7, pp. 86678-86696, 2019.
5. **Shaham, S.**, Ding, M., Kokshoorn, M., Lin, Z., Dang, S. and Abbas, R., "Fast Channel Estimation and Beam Tracking for Millimeter Wave Vehicular Communications," in IEEE Access, vol. 7, pp. 141104-141118, 2019.

CONFERENCE  
PUBLICATIONS

1. **Shaham, S.**, Ghinita, G. and Shahabi, C., "An Efficient and Secure Location-based Alert Protocol using Searchable Encryption and Huffman Codes" to appear in 24th International Conference on Extending Database Technology (EDBT).
2. **Shaham, S.**, Ghinita, G. and Shahabi, C., "Enhancing the Performance of Spatial Queries on Encrypted Data Through Graph Embedding" in IFIP Annual Conference on Data and Applications Security and Privacy (DBSec), pp. 289-309, Springer, Cham, June 2020.
3. **Shaham, S.**, Kokshoorn, M., Ding, M., Lin, Z. and Shirvanimoghaddam, M., "Extended kalman filter beam tracking for millimeter wave vehicular communications" in IEEE International Conference on Communications Workshops (ICC Workshops), pp. 1-6, June 2020.
4. **Shaham, S.**, Ding, M., Liu, B., Lin, Z. and Li, J., "Machine Learning Aided Anonymization of Spatiotemporal Trajectory Datasets" in IEEE Conference on Computer Communications Workshops (INFOCOM WKSHPS), pp. 1-6, April 2019.
5. **Shaham, S.**, Ding, M., Liu, B., Lin, Z. and Li, J., "Transition-Entropy: A Novel Metric for Privacy Preservation in Location-Based Services" in IEEE Conference on Computer Communications Workshops (INFOCOM WKSHPS), pp. 1-6, April 2019.
6. Zhang, L., Qian, Y., Ding, M., Ma, C., Li, J. and **Shaham, S.**, "Location Privacy Preservation Based on Continuous Queries for Location-Based Services" in IEEE Conference on Computer Communications Workshops (INFOCOM WKSHPS), pp. 1-6, April 2019.
7. **Shaham, S.**, Kokshoorn, M., Lin, Z., Ding, M. and Wu, Y., "RAF: Robust Adaptive Multi-Feedback Channel Estimation for Millimeter Wave MIMO Systems" in IEEE Wireless Communications and Networking Conference (WCNC), pp 1-6, Barcelona, Spain, April 2018.
8. Ma, Z.X., Zhang, **Shaham, S.**, Dang, S., and Hart, J., "Literature review of the communication technology and signal processing methodology based on the smart grid.", In Applied Mechanics and Materials. Trans Tech Publications 2015.