

Education

CGPA

Michigan State University (2015-Present)	PhD in Computer Science & Engineering • Advisor: Dr. Anil K. Jain	4.0 / 4.0
IIIT-Delhi (2009-2013)	B. Tech. (Hons.) in Computer Science & Engineering • Graduated with 2 nd Rank in IIIT-D	9.42 / 10.0

Work Experience

PRIP Lab, MSU (Aug'15 -Present)	Graduate Research Assistant - Biometrics Group Advisor: Dr. Anil K. Jain • Fingerprint Spoof Detection; latent fingerprint value determination: crowd-based learning
IBM Research, New Delhi (Feb'14 - Aug'15)	Software Engineer - Information Management & Analytics Group • Detecting and ranking law & safety disrupting events using social media mining • Automating Name Normalization based on text matching
IIIT Delhi (Dec'13 - Feb'14)	Research Assistant - Image Analysis & Biometrics Lab Advisor: Dr. Mayank Vatsa and Dr. Richa Singh • Matching composite sketches to face images
INRIA, Nancy, France (May'12 - Nov'12)	Software Engineer Intern - MADYNES Team Advisor: Dr. Isabelle Chrisment • Designed a P2P to I2P multi-bridge network and defined network protocol

Publications

Journal Papers:

T. Chugh, K. Cao, and Anil K. Jain, [Fingerprint Spoof Buster](#), IEEE Transactions on Information Forensics and Security, 2017 (under review).

T. Chugh, K. Cao, J. Zhou, E. Tabassi and A. K. Jain, [Latent Fingerprint Value Prediction: Crowd-based Learning](#), IEEE Transactions on Information Forensics and Security, Vol. 13, No. 1, pp. 20-34, Jan 2018.

Conference Papers:

T. Chugh, K. Cao, A. K. Jain, [Fingerprint Spoof Detection Using Minutiae-based Local Patches](#), *International Joint Conference on Biometrics (IJCB)*, Denver, 2017

T. Chugh, S. S. Arora, A. K. Jain, and N. G. Paulter Jr., [Benchmarking Fingerprint Minutiae Extractors](#), in *IEEE BIOSIG*, Darmstadt, 2017

T. Chugh, M. Singh, S. Nagpal, R. Singh, and M. Vatsa, [Transfer Learning based Evolutionary Algorithm for Composite Face Sketch Recognition](#), *In IEEE CVPR Workshops (CVPRW) on Biometrics*, Honolulu, 2017

K. Cao, T. Chugh, J. Zhou, E. Tabassi, A. K. Jain, [Automatic Latent Value Determination](#), *International Conference on Biometrics (ICB)*, Halmstad, 2016

T. Chugh, H.S. Bhatt, R. Singh, and M. Vatsa, [Matching Age Separated Composite Sketches and Digital Face Images](#), *International Conference on Biometrics: Theory, Applications and Systems (BTAS)*, Washington D.C. 2013

Software Skills

Programming Languages	C, C++, Java, Python, C#
Tools & Technologies	TensorFlow, CUDA Programming, Android and Web App Dev., HTML5/CSS, Latex, MATLAB, Visual Studio, Adobe Photoshop
Environment	Mac, Linux, Windows

Graduate Courses Taken at MSU

Pattern Recognition, Machine Learning, Theory of Probability and Statistics - I and II, Computer Vision, Design and Theory of Algorithms, Parallel Computing, Advanced Computer Graphics