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Nirav Ajmeri

EDUCATION	**North Carolina State University, USA**	Aug 2012–May 2019

Ph.D. in Computer Science
Dissertation Title: Engineering Multiagent Systems for Ethics and Privacy-Aware Social Computing
Adviser: Professor Munindar P. Singh

	North Carolina State University, USA	Aug 2012–Dec 2018

M.S. in Computer Science

	Gujarat University, India	Oct 2003–May 2007

B.E. in Computer Engineering (First class)

RESEARCH EXPERIENCE	**North Carolina State University**	Aug 2012–Dec 2018

Graduate Research Assistant, Multiagent Systems and Service-Oriented Computing Laboratory, Raleigh NC

- Designing ethics and privacy-aware socially intelligent agents   [J1, J7, C9, C12, R18, R21]
- Formal specification and analysis of security and privacy policies   [J4, J5, C13, C15, R19]
- Understanding effects of sanctions for secure software development practices   [J2, J6, C16]
- Exploring creativity techniques to acquire requirements via crowdsourcing   [C10, C11, R20]
- Large-scale sentiment analysis of privacy news in the USA and UK   [C11]
- Event identification via anomalous patterns in tweets' sentiments; tested on 12 million tweets related to the Indian General Election 2014

	HERE Technologies (formerly Nokia Maps)	Sep 2017–Dec 2017

Research Intern, CTO Research, Chicago IL

- Built location privacy preserving data publishing, query answering, and learning systems

	Tata Consultancy Services	Sep 2007–Jul 2012

Researcher, Software Engineering Lab, TCS–TRDDC, Pune, India

- Knowledge engineering for agile requirements evolution   [B9, J5]

  - Developed text mining approach to extract actors, use cases, process workflows and business rules from unstructured requirements specifications
  - Designed (traditional and agile) requirements evolution and knowledge modeling workflows

SKILLS

Languages: Java, Python, Ruby, R, JavaScript, RDF, OWL, HTML
Databases: Oracle, MySQL, SQLite
Toolkit and frameworks: Weka, Scikit-learn, TensorFlow, Flask, Ruby on Rails
IDE and other tools: Eclipse, Android Studio, Matlab

AWARDS AND ACCOLADES

- NSF Travel Grant to attend the Requirements Engineering Conference (declined)   2018
- Among 10 US doctoral students selected by the Office for Science & Tech. of the French Embassy in the US to participate in the FADEx program on Artificial Intelligence   2018
- Best Paper Award, 15th International Conf. on Privacy, Security and Trust [C11]   2017
- Outstanding Research Award, Department of Computer Science, NCSU   2016–2017
- AAMAS Travel Scholarship   2017
- Outstanding Research Paper Award, TCS [B17]   2012
- Mentor, Best Student Intern Research Project, TCS   2010, 2011
- Beyond Performance Award—Patron of the Library, TCS   2009
- Departmental nominee for the Best Outgoing Student award, SVIT Vasad, GU   2007

Journal Papers & Columns

[J1] N. Ajmeri, H. Guo, P. K. Murukannaiah, and M. P. Singh. Designing Ethical Personal Agents. *IEEE Internet Computing*, 22(2):16–22, 2018.

[J2] S. Al-Amin, N. Ajmeri, H. Du, E. Z. Berglund, and M. P. Singh. "Toward Effective Adoption of Secure Software Development Practices." *Simulation Practice and Theory*, 85:33–46, 2018.

[J3] H. Guo, N. Ajmeri, and M. P. Singh. "Teaching Crowdsourcing: An Experience Report." *IEEE Internet Computing*, 22(1):1–8, 2018. To appear.

[J4] N. Ajmeri, C-W. Hang, S. Parsons, and M. P. Singh. "Aragorn: Eliciting and Maintaining Secure Service Policies." *IEEE Computer*, 50(12):50–58, 2017.

[J5] R. Kafalı, N. Ajmeri and M. P. Singh. "Revani: Revision and Verification of Normative Specifications for Privacy." *IEEE Intelligent Systems*, 31(5):8–15, 2016.

[J6] L. G. Nardin, T. Balke, N. Ajmeri, A. K. Kalia, J. S. Sichman and M. P. Singh. "Classifying Sanctions and Designing a Conceptual Sanctioning Process Model for Socio-Technical Systems." *The Knowledge Engineering Review*. 31(2):142–166, 2016.

[J7] P. K. Murukannaiah, N. Ajmeri and M. P. Singh. Engineering Privacy in Social Applications. *IEEE Internet Computing*, 20(2):72–76, 2016. [Selected for inclusion in IEEE Computer Society's ComputingEdge, Aug 2016.]

[J8] M. Daneva, E. van der Veen, C. Amrit, S. Ghaisas, K. Sikkel, R. Kumar, N. Ajmeri, U. Ramteerthkar and R. Wieringa. "Agile Requirements Prioritization in Large-scale Outsourced System Projects: An Empirical Study." *JSS*. 86(5): 1333–1353, 2013.

Conference Papers

[C9] N. Ajmeri, H. Guo, P. K. Murukannaiah, and M. P. Singh. "Robust Norm Emergence by Revealing and Reasoning about Context: Socially Intelligent Agents for Enhancing Privacy." *Proc. 27th International Joint Conf. Artificial Intelligence (IJCAI)*, pages 28–34, 2018.

[C10] V. T. Dhinakaran, R. Pulle, N. Ajmeri, and P. K. Murukannaiah. "App Review Analysis via Active Learning: Reducing Supervision Effort without Compromising Classification Accuracy." *Proc. 26th International Requirements Engineering Conf. (RE)*, pages 170–181, 2018.

[C11] K. Sheshadri, N. Ajmeri, J. Staddon. "No (Privacy) News is Good News: An Analysis of Privacy News in the U. S. and U. K. from 2010–2015." *Proc. 15th International Conf. Privacy, Security and Trust (PST)*, pages 1–10, 2017. [Best Paper Award]

[C12] N. Ajmeri, P. K. Murukannaiah, H. Guo, and M. P. Singh. "Arnor: Modeling Social Intelligence via Norms to Engineer Privacy-Aware Personal Agents." *Proc. 16th International Conf. Autonomous Agents and Multiagent Systems (AAMAS)*, pages 230–238, 2017.

[C13] R. Kafalı, N. Ajmeri and M. P. Singh. "Kont: Computing Tradeoffs in Normative Multiagent Systems." *Proc. 31st AAAI Conf. Artificial Intelligence (AAAI)*, pages 3006–3012, 2017.

[C14] P. K. Murukannaiah, N. Ajmeri, and M. P. Singh. "Acquiring Creative Requirements from the Crowd". *Proc. 24th International Requirements Engineering Conf. (RE)*, pages 176–185, 2016.

[C15] N. Ajmeri, J. Jiang, R. Chirkova, J. Doyle, and M. P. Singh. "Coco: Runtime Reasoning About Conflicting Commitments." *Proc. 25th International Joint Conf. Artificial Intelligence (IJCAI)*, pages 17–23, 2016.

[C16] H. Du, B. Y. Narron, N. Ajmeri, E. Berglund, J. Doyle and M. P. Singh. "Understanding Sanction under Variable Observability in a Secure, Collaborative Environment." *Proc. HotSoS*, pages 12:1–12:10, 2015.

Book Chapter

[B17] S. Ghaisas and N. Ajmeri. "Knowledge-assisted Ontology-based Requirements Evolution." *Managing Requirements Knowledge*, pages 143–167, Springer Berlin Heidelberg, 2013.

Working Drafts

[R18] N. Ajmeri, H. Guo, P. K. Murukannaiah, and M. P. Singh. "Privacy and Values in a Web of Socially Intelligent Agents." Submitted to WWW 2019.

[R19] R. Kafalı, N. Ajmeri, and M. P. Singh. "Desen: Specification and Engineering of Normative Multiagent Systems via Design Patterns."

[R20] P. Murukannaiah, N. Ajmeri, F. M. Rahman, and M. P. Singh. "Can Crowd Teams Produce Creative Requirements? Yes and No."

[R21] A. K. Kalia, N. Ajmeri, K. Chan, J. Cho, S. Adalı, and M. P. Singh. "A Bayesian Model of Trust, Moods, Goals, Commitments, and Emotions in Multiagent Systems."

PROFESSIONAL SERVICE	

Proceedings Chair
- Symposium and Bootcamp on the Science of Security (HotSoS) — 2014

Program Committee
- International Conference on Autonomous Agents and Multiagent Systems (AAMAS) — 2019
- AI for Requirements Engineering (AIRE) workshop — 2018
- Crowd-based Requirements Engineering (CrowdRE) workshop — 2017
- ACM COMPUTE — 2012

Reviewer
- AAAI/ACM Conference on Artificial Intelligence, Ethics, and Society (AIES) — 2019
- The Web Conference (formerly WWW) — 2019
- Springer Automated Software Engineering (AuSE) — 2019
- ACM Transactions on Intelligent Systems and Technology (TIST) — 2018
- Autonomous Agents and Multi-Agent Systems (JAAMAS) — 2018
- IEEE Transactions on Parallel and Distributed Systems (TPDS) — 2017
- Learning from Authoritative Security Experiment Results (LASER) workshop — 2017
- Symposium on Usable Privacy and Security (SOUPS) — 2016
- Normative Multiagent Systems — 2015
- Managing Requirements Knowledge book — 2012
- India Software Engineering Conference — 2012

Student Volunteer
- International Joint Conference on Artificial Intelligence (IJCAI) — 2016
- ACM Conference on Computer and Communications Security (CCS) — 2012
- AIMS International Conference of Management — 2006, 2007
- International Conf. Operations and Quantitative Management (ICOQM) — 2005, 2006

Webmaster
- AIMS International Conference of Management — 2006, 2007
- International Conf. Operations and Quantitative Management (ICOQM) — 2005, 2006

COLLABORATORS (IN LAST FIVE YEAR)
- Amazon: Shubham Goyal
- Brandenburg University of Technology, Germany: Luis G. Nardin
- HERE Technologies: Raghavendran Balu, Matei Stroila, and Bo Xu
- Google: Jessica Staddon
- IBM: Chung-Wei Hang, Anup K. Kalia, and Zhe Zhang
- Kings College, UK: Simon D. Parsons
- Microsoft: Guangchao Yuan
- Rochester Institute of Technology, NY: Pradeep K. Murukannaiah
- University of Kent, UK: Özgür Kafalı
- University of Sao Paulo, Brazil: Jaime S. Sichman

WEBSITE

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