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; *defended:* Dec 2018
Adviser: Professor Munindar P. Singh

North Carolina State University, USA — Aug 2012–Dec 2018
M.S. in Computer Science; *based on PhD written prelim*; *defended:* Nov 2014
Title: Argumentation, Evidence, and Schemes: Approach and Empirical Evaluation

Gujarat University, India — Oct 2003–May 2007
B.E. in Computer Engineering (First class)

PROFESSIONAL EXPERIENCE

North Carolina State University — Feb 2019–present
Postdoctoral Research Scholar, NCSU Science of Security Lablet — Raleigh NC
Advisers: Professors Munindar P. Singh and Laurie Williams

North Carolina State University — Aug 2012–Dec 2018
Graduate Research Assistant, MAS and SOC Laboratory — Raleigh NC
Supported by:
- NCSU Science of Security Lablet
- Laboratory of Analytic Sciences

HERE Technologies (formerly Nokia Maps) — Sep 2017–Dec 2017
Research Intern, CTO Research — Chicago IL

Tata Consultancy Services — Sep 2007–Jul 2012
Researcher, Software Engineering Lab, TCS–TRDDC — Pune, India

AWARDS AND ACCOLADES

- NCSU Sole Nominee for the Joint AAAI/ACM SIGAI Doctoral Dissertation Award — 2019
- Outstanding Dissertation Award, Department of Computer Science, NCSU — 2019
- NSF Travel Grant to attend the Requirements Engineering Conference (*declined*) — 2018
- FADEx laureate (AI), Office for Science & Tech., Embassy of France (*declined*) — 2018
- Best Paper Award, 15th International Conf. on Privacy, Security and Trust; for [C11] — 2017
- Outstanding Research Award, Department of Computer Science, NCSU — 2017
- AAMAS Travel Scholarship — 2017
- Outstanding Research Paper Award, TCS; for [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] R. Kafalı, N. Ajmeri, and M. P. Singh. "DESEN: Specification of Sociotechnical Systems via Patterns of Regulation and Control." ACM TOSEM, 30(x)1–25, 2020. In press.

[J2] N. Ajmeri, H. Guo, P. K. Murukannaiah, and M. P. Singh. Designing Ethical Personal Agents. IEEE Internet Computing, 22(2):16–22, 2018. [Selected for IEEE ComputingEdge, Jul 2018]

[J3] 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.

[J4] H. Guo, N. Ajmeri, and M. P. Singh. "Teaching Crowdsourcing: An Experience Report." IEEE Internet Computing, 22(6):44–52, 2018.

[J5] 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. [Used in teaching Software Engineering (CSC 616/585, Spring 2018) and Requirements Engineering (CSC617/585, Spring 2019) courses at University of Kentucky, KY]

[J6] 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.

[J7] 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.

[J8] P. K. Murukannaiah, N. Ajmeri and M. P. Singh. Engineering Privacy in Social Applications. IEEE Internet Computing, 20(2):72–76, 2016. [Selected for IEEE ComputingEdge, Aug 2016]

[J9] 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

[C10] A. K. Kalia, N. Ajmeri, K. Chan, J. Cho, S. Adalı, and M. P. Singh. "The Interplay of Emotions and Norms in Multiagent Systems." Proc. 28th International Joint Conf. Artificial Intelligence (IJCAI), pages 371–377, 2019.

[C11] Shubham Goyal, N. Ajmeri, and M. P. Singh. "Applying Norms and Sanctions to Promote Cybersecurity Hygiene." Proc. 18th International Conf. Autonomous Agents and Multiagent Systems (AAMAS), pages 1991–1993, 2019.

[C12] 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.

[C13] 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.

[C14] 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]

[C15] 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.

[C16] 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.

[C17] 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.

[C18] 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.

[C19] 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

[B20] S. Ghaisas and N. Ajmeri. "Knowledge-assisted Ontology-based Requirements Evolution." Managing Requirements Knowledge, pages 143–167, Springer Berlin Heidelberg, 2013.

WORKING DRAFTS

[R21] N. Ajmeri, H. Guo, P. K. Murukannaiah, and M. P. Singh. Topic: Ethics and Multiagent Systems (*Title withheld for anonymity*). In review at AAMAS 2020.

[R22] M. Masayekhi, N. Ajmeri, G. List, and M. P. Singh. Topic: Fairness and Prosociality in Multiagent Systems (*Title withheld for anonymity*). In review at AAMAS 2020.

[R23] N. Ajmeri, S. Goyal, and M. P. Singh. Topic: Cybersecurity Hygiene (*Title withheld for anonymity*). In preparation for IEEE Computer.

[R24] P. Murukannaiah, N. Ajmeri, F. M. Rahman, and M. P. Singh. "Crowdsourcing for Intelligent Systems" In preparation for AIJ.

PROFESSIONAL
SERVICE

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

Program Committee
- AAAI Conference on Artificial Intelligence (AAAI)   2020
- International Conf. Autonomous Agents and Multiagent Systems (AAMAS)   2019, 2020
- AI for Requirements Engineering (AIRE) workshop   2018, 2019
- Crowd-based Requirements Engineering (CrowdRE) workshop   2017, 2019
- ACM COMPUTE   2012

Reviewer
- International Conference on Software Engineering (ICSE)   2020
- Artificial Intelligence (AIJ)   2019
- ACM ESEC/FSE   2019
- International Symposium on Software Reliability Engineering (ISSRE)   2019
- ACM/IEEE ESEM   2019
- IEEE Transactions on Services Computing (TSC)   2019
- AAAI/ACM Conference on Artificial Intelligence, Ethics, and Society (AIES)   2019
- The Web Conference (formerly WWW)   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

EXTERNAL
COLLABORATORS
(IN LAST FIVE YEAR)

- Amazon: Shubham Goyal
- Delft University of Technology (TU Delft): Pradeep K. Murukannaiah
- Google: Jessica Staddon
- IBM: Chung-Wei Hang, Anup K. Kalia, and Zhe Zhang
- Kings College, UK: Simon D. Parsons
- Microsoft: Guangchao Yuan
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