Ramyaa Ramyaa
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Professional Preparation

Simons Institute for the theory of computation, University of Berkeley, California	Research Fellow Aug 2016 - Dec 2016
Ludwig-Maximilians-Universitat (LMU)	Post Doctoral Researcher. Jun 2011 - Aug 2013
Indiana University (IU)	PhD (Computer Science) 2012
Carnegie Mellon University (CMU)	MS (Logic & Computation) 2005
University of Georgia (UGA)	MS (Computer Science) 2004
University of Georgia (UGA)	MS (Artificial Intelligence) 2004
Madurai Kamaraj University (MKU), India	BE (Computer Science) 2001

Appointments

2015 -	Assistant Prof. Department of Computer Science and Engineering, New Mexico Institute of Mining and Technology.
2016-2016	Research Fellow, Simons Institute for the theory of computation, University of Berkeley, California
2013-2015	Visiting Asst. Prof. Mathematics and Computer Science Department, Wesleyan University.
2011-2013	Post Doctoral Researcher, Ludwig-Maximilians-Universitat (LMU)
2005-2010	Associate Instructor, Indiana University
2004-2005	Graduate Research Assistant, Carnegie Melon University
2001-2004	Graduate Research Assistant, University of Georgia

Publications (*Selected*):

1. Smith M., Johnson N., Ingram J., Carbajal A., Haus B., Domschot E., Lamb C., Verzi S., Kegelmeyer W. "Mind the Gap: On Bridging the Semantic Gap between Machine Learning and Malware Analysis", accepted at ACM workshop on Artificial Intelligence and Security, 2020.

2. Tadros T., Krishnan G., Ramyaa R., Bazhenov, M. "Biologically Inspired Sleep Algorithm for Reducing Catastrophic Forgetting in Neural Networks." 2020. In Proceedings of the AAAI Conference on Artificial Intelligence (Vol. 34, No. 10, pp. 13933-13934).

3. Tadros T, Krishnan GP, Ramyaa R, Bazhenov M. "Biologically inspired sleep algorithm for increased generalization and adversarial robustness in deep neural networks." ICLR 2020.

4. Krishnan S., Ramyaa R., "When Two Heads Are Better Than One: Nutritional Epidemiology Meets Machine Learning." The American Journal of Clinical Nutrition, 2020

5. Ramyaa R, Hosseini O, Krishnan GP, Krishnan S. Phenotyping Women Based on Dietary Macronutrients, Physical Activity and Body Weight Using Machine-Learning Tools. 2019. Nutrients 11 (7).

6. Ramyaa R, Das K, Marru S. "Aggregating Ensemble Weather Predictions for Rainfall Prediction." ICMLC 2018 conference proceedings.

7. Verma A., Ramyaa R., Singh R., Marru S., "Validating distance decay through agent based modeling", Special Issue of Security Informatics (SI) on Computational Criminology 2012. ⌷

8. McClendon R.W., Hoogenboom G., Jain A., Ramyaa R., Smith B., "Temperature prediction for Frost Prediction", Proc. of the 2005 Southeast Regional Vegetable Conference. GA, 2005. P. 97.

9. Ramyaa, He C., Rasheed K., "Using Machine Learning Techniques for Stylometry", IC-AI 2004.

10. Potter W.D., Ramyaa, Li J., Ghent J., Twardus D., Thistle H., "STP: An Aerial Spray Treatment Planning System", Proc. of the IEEE SoutheastCon 2002, pp. 300-305, Columbia, SC.

Other selected publications:

1. Aranda D, Towler A, Ramyaa R, and Kuo R. "Designing an Educational Game for Teaching Foundational Concepts in Propositional Logic." E-learn 2019

2. Buss S, and Ramyaa R. "Short refutations for the equivalence-chain principle for constant-depth formulas." Mathematical Logic Quarterly, 2018

3. Norman Danner, Daniel R. Licata and Ramyaa "Denotational cost semantics for functional languages with inductive types." ICFP 2015: 140-151

4. Hofmann, M, Ramyaa R, and Schoepp U, "Pure pointer programs and tree isomorphism." Foundations of Software Science and Computation Structures. Foundations of Software Science and Computation Structures (FOSSCS), 2013. Springer Berlin Heidelberg

5. Ramyaa R., Leivant D., "Ramified Corecurrence and Logspace", Electr. Notes Th. CS. 276(2011).

6. Ramyaa R., Leivant D., "Feasible Functions over Co-inductive Data", WoLLIC 2010: 191-203.

7. Verma A., Ramyaa R., Singh R., and Marru S., "Rationalizing police patrol beats using Voronoi Tessellations", ACM SIGKDD Workshop on Intelligence and Security Informatics, 2010.