

Muhammad Ali

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Education

2016–Present	MS in Computer Science Saarland University/Max Planck Institute for Software Systems Saarbrücken, Germany Grade: 1.6/5.0 (A-) Thesis (in progress): <i>Investigating the Representativeness of Facebook Ad Estimates for Demographic Studies</i> . Supervised by Krishna Gummadi.
2011–2015	BS in Computer Science National University of Computer & Emerging Sciences (NUCES) Lahore, Pakistan GPA: 3.46/4.0 (95th percentile) Thesis: <i>Politeness Classification in Online Community Requests using Recursive Neural Networks</i> . Supervised by Mehreen Saeed.

Work Experience

2017–Present	Student Research Assistant, Max Planck Institute for Software Systems Part of Krishna Gummadi's Networked Systems group. Master's thesis work and projects related to bias and discrimination in social networks. Published work at FAT* 2018 and FATREC 2017.
2015–2016	Backend Engineer, Patari Music Built the foundation for the music platform's social features; constantly maintained and added new features to the backend API.
Summer 2013	Research Intern, Lahore University of Management Sciences Part of the Neighborhood for Emerging World Technologies lab. Worked on feature extraction from online newspapers for predicting malaria outbreak severity. Maintained disease surveillance systems developed in collaboration with the provincial government.

Publications

2018	Till Speicher, Muhammad Ali , Giridhari Venkatadri, George Arvanitakis, Krishna P. Gummadi, Patrick Loiseau, and Alan Mislove. On the potential for discrimination in online targeted advertising. In <i>Proceedings of the Conference on Fairness, Accountability, and Transparency (FAT*)</i> , 2018
2017	Abhijnan Chakraborty, Muhammad Ali , Saptarshi Ghosh, Niloy Ganguly, and Krishna P. Gummadi. On quantifying knowledge segregation in society. In <i>Proceedings of the FATREC Workshop on Responsible Recommendation</i> , 2017

Skills

Technical: Python, JavaScript, R, C, C++, Java, MATLAB, Node.js, MongoDB, SQL, PHP, Unix, L^AT_EX

Research: Natural language processing, machine learning, deep learning, social networks, measurement studies, data mining and analysis

Teaching

Fall 2015 **Teaching Assistant, NUCES**

For Introduction to Computing (CS101).

Graded programming assignments and homework sheets, organized tutorials on student demand.

Summer 2012 **Curriculum Development Intern, CARE Foundation Pakistan**

Volunteered with the NGO to develop teaching techniques for low-resource public schools. Wrote several lecture plans for primary school level mathematics and English.