

Abdurrahman Yaşar

CONTACT INFORMATION

E-Mail: ayasar@gatech.edu Phone: +1 (404) 528-0697

EDUCATION

Georgia Institute of Technology, USA, PhD. Computer Science 2015 - Present
Advisor; Ümit V. Çatalyürek

Bilkent University, Turkey, MSc. Computer Engineering 2013 - 2015
Advisor; Buğra Gedik
Dissertation: Scalable layout of large graphs on disk

Galatasaray University, Turkey, B.Sc. Computer Engineering 2007 - 2012

RESEARCH INTEREST

My main research interests include, but not limited to the areas of scalable graph analytics, graph processing middlewares, and data intensive applications.

Currently I am working on scalable graph analytics, with a particular interest in graph merging and linear algebra based scalable graph algorithms. Prior to that, I worked on disk based single node graph processing systems. My MSc. thesis focused on a scalable Map/Reduce-style method called ICBP, which can divide the graph into a series of disk blocks that contain sub-graphs with high locality.

HONORS & AWARDS

- HPEC 2018 Graph Challenge Champion 2018
- Georgia Institute of Technology Graduate Research Assistantship 2015
- Bilkent University M.S. Degree Scholarship 2013
- Excellence Study Grant Provided by the Embassy of France in Turkey 2013
- First Grade, Galatasaray University 2012
- Special Jury Award, Team ONGUN, IBM Software Academy, Turkey 2012
- French Institute for Research in Computer Science and Automation Fellowship 2011
- Galatasaray Education Foundation (GEV) Bachelor's Degree Fellowship. 2008

EXPERIENCE

Georgia Institute of Technology, College of Computing, Atlanta GA
Graduate Research Associate at HPC Lab under Ümit V. Çatalyürek Aug. 2015 -

Sandia National Laboratories, Albuquerque NM
Graduate Summer Intern May. 2018 - Aug. 2018

IBM Almaden Research Center, San Jose CA
Graduate Summer Intern May. 2016 - Aug. 2016

Bilkent University, Computer Engineering Department, Ankara Turkey
Graduate Research Associate at BilDiDS under Buğra Gedik Sep. 2013 - July 2015

Ecole Polytechnique, Computer Science, Paris France
Graduate Student in MPRI Program - Dropped Sep. 2012 - March 2013

Inria - Lille Nord Europe, Equipe DART, Lille France
Summer Intern May. 2011 - Sep. 2011

USTL: Université Lille 1, Computer Science, Lille France
Exchange Student Sep. 2010 - Jan. 2011

PUBLICATIONS

Fast Triangle Counting Using Cilk ([one of the Graph Challenge Champions](#)) 2018
IEEE High Performance Extreme Computing Conference (HPEC)
Abdurrahman Yaşar, Sivasankaran Rajamanickam, Michael M. Wolf, Jonathan. W. Berry, Ümit V. Çatalyürek

	<p>Programming strategies for irregular algorithms on the Emu Chick (Submitted) 2018</p> <p>E. Hein, S. Eswar, Abdurrahman Yasar, B. Uçar, Ü. Çatalyürek, T. Conte, J. Riedy, R. Vuduc, and J. S. Young</p>
	<p>An Iterative Global Structure-Assisted Network Aligner 2018</p> <p><i>ACM SIGKDD International Conference on Knowledge Discovery & Data Mining</i></p> <p>Abdurrahman Yaşar, Ümit V. Çatalyürek</p>
	<p>SiNA: A Scalable Iterative Network Aligner 2018</p> <p><i>IEEE/ACM International Conference on Advances in Social Networks Analysis and Mining (ASONAM)</i></p> <p>Abdurrahman Yaşar, Ümit V. Çatalyürek</p>
	<p>Distributed block formation and layout for disk-based management of large-scale graphs 2017</p> <p><i>Distributed and Parallel Databases</i></p> <p>Abdurrahman Yaşar, Buğra Gedik, Hakan Ferhatosmanoğlu</p>
	<p>Machine to Machine Trust in the IoT Era. 2016</p> <p><i>TRUST'16 Proceedings of the 18th International Conference on Trust in Agent Societies</i></p> <p>Ling Liu, Margaret Loper, Yusuf Ozkaya, Abdurrahman Yaşar, Emre Yigitoglu</p>
PATENTS	<p>Distributing Data by Successive Spatial Partitionings 2017</p> <p><i>Filed Patent : ARC920170014US1</i></p> <p>Aayush Gupta, Sangeetha Seshadri, Abdurrahman Yaşar</p>
TECHNICAL SKILLS	<ul style="list-style-type: none"> • Languages: C++, Python, Java, C, VHDL, MATLAB, \LaTeX • Systems: Hadoop, IBM Websphere, IBM Streams
PERSONAL INFORMATION	<ul style="list-style-type: none"> • Born: in Konya, TURKEY • Gender: Male • Citezenship: Turkish • My spoken and written languages are: <ul style="list-style-type: none"> • Turkish: Mother language • English:TOEFL IBT: 103 (2014) • French: DELF B2

Referees Available on Request