

# Kayhan Dursun

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## PERSONAL STATEMENTS

A Computer Science Ph.D. student at Brown University. I am looking for opportunities to address important research questions. My current work focuses on efficient query scheduling and execution techniques on modern hardware.

## EDUCATION

**Brown University**, Providence, Rhode Island, USA

Doctor of Philosophy in Computer Science

Sep 2012- Present

- Adviser: Professor Ugur Cetintemel
- Research area: Big data management and analytics.

Master of Science in Computer Science

Sep 2012- Jul 2014

- Adviser: Professor Ugur Cetintemel
- Research area: Big data management and analytics.

**TOBB Economics and Technology University**, Cankaya, Ankara, Turkey

Master of Science in Computer Engineering

Sep 2010- May 2012

Bachelor of Science in Computer Engineering

Sep 2005- May 2010

- Cumulative GPA: 3.74 / 4.00

## EXPERIENCE

**Brown University**, Providence, RI, USA

Research and Teaching Assistant

Sep 2012- Present

- Research Assistant in the Data Management Group

**TOBB Economics and Technology University**, Ankara, Turkey

Research and Teaching Assistant

Sep 2010- May 2012

- Research Assistant in Data Mining and Data Management Group
- Head Teaching Assistant for various classes

**SIEMENS EC**, Ankara, Turkey

Software Development Intern

Jan 2007- May 2007

## PUBLICATIONS

- 6) K. Dursun, C. Binnig, U. Cetintemel and T. Kraska, "Revisiting Reuse In Main Memory Database Systems," to appear in *Proceedings of ACM SIGMOD*, San Francisco, USA, May 2017.
- 5) A. Crotty, A. Galakatos, K. Dursun, T. Kraska, C. Binnig, U. Cetintemel and S. Zdonik "An Architecture for Compiling UDF-centric Workflows," in *Proceedings of the VLDB Endowment*, vol. 8, pp. 1466–1477, Sep 2015.
- 4) A. Crotty, A. Galakatos, K. Dursun, T. Kraska, U. Cetintemel and S. Zdonik "Tupleware: "Big" Data, Big Analytics, Small Clusters," in *CIDR*, Jan 2015.
- 3) S. Ozyer, B. Tavli, K. Dursun and M. Koyuncu "Systematic investigation of the effects of unidirectional links on the lifetime of wireless sensor networks," *Computer Standards and Interfaces*, vol. 36, pp. 132–142, Jan 2013.
- 2) O. Sert, K. Dursun, T. Ozyer, J. Jida and R. Alhajj "The Unification and Assessment of Multi-Objective Clustering Results of Categorical Datasets with H-Confidence Metric," *Journal of Computer Science*, vol. 18, pp. 507–531, Jan 2012.
- 1) O. Sert, K. Dursun and T. Ozyer "Ensemble of Multi-objective Clustering Unified with H-Confidence Metric as Validity Metric," *ASONAM*, vol. 18, pp. 537–541, Jul 2011.

## ACTIVITIES

### Brown University

- Nominated and Elected as the Faculty Grad Liason. Fall 2016–Present  
*Responsible for relations between faculty and 170 grad students in the department.*
- Served as the DB-group meeting chair, DB-group social activity organizer, departmental soccer team captain for several semesters.
- Served as the Grad TA for the following classes:
  - Interacting with Big Data: Human-in-the-Loop Systems, Exploration and Visualization Fall 2015
  - Topics in Data Science Fall 2013

### TOBB Economics and Technology University

- Served as the Head Teaching Assistant, Lab-Instructor for various classes:
  - Database Management Systems (co-taught with the professor) Summer 2012
  - Programming with C/C++ Spring 2012 and Spring 2011
  - Programming with Java Fall 2010 and Fall 2011
  - Data Mining Spring 2012
  - Object-Oriented Design and Programming Summer 2011
  - Web Database Applications Fall 2010 and Summer 2011
  - Discrete Mathematics Spring 2011

## HONORS & AWARDS

Brown University Graduate School Fellowship 2012  
Graduated with high honors and the 1st rank in the department (75 students in total) 2010  
Superior Achievement Scholarship 2007-2010

## LANGUAGES

English: Fluent proficiency.  
Spanish: Intermediate proficiency.  
Turkish: Native proficiency.

## REFERENCES

### Professor Ugur Cetintemel

Professor of Computer Science  
Brown University  
Department of Computer Science  
115 Waterman St., Providence, RI, USA, 02912  
ugur@cs.brown.edu

### Professor Carsten Binnig

Adjunct Associate Professor  
Brown University  
Department of Computer Science  
115 Waterman St., Providence, RI, USA, 02912  
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### Professor Tansel Ozyer

Associate Professor  
TOBB Economics and Technology University  
Department of Computer Engineering  
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ozyer@etu.edu.tr