

Education

- **Brown University – @Providence** Rhode Island, United States
Doctor of Philosophy in Computer Science June. 2017 – Present
 - Key Courses: Deep Learning, Computational Linguistics, Foundations of Prescriptive Analytics
 - Current Research Interest: Database Systems Interfaces, Data Mining, Machine Learning applications in Databases
- **Duke University – @Durham** North Carolina, United States
Master of Science in Computer Science Aug. 2014 – 2017
 - Key Courses: Advanced Computer Networks, Advanced Operating Systems, Numerical Analysis, Distributed Information Systems
 - Main Research Focus: Big Data Processing Platforms, Distributed Systems, Cloud Computing
- **Bilkent University – @Ankara** Ankara, Turkey
Master of Science in Computer Engineering Aug. 2012 – Jul. 2014
 - Key Courses: Wireless and Mobile Networking, Cryptography and Network Security, Switching Networks, Data Management Systems, Information Retrieval Systems, Computational Geometry
 - Main Research Focus: Cloud Computing
- **University of Tabriz – @Tabriz** East Azerbaijan, Iran
Bachelor of Science in Information Technology Sep. 2007 – Aug. 2011
 - Key Courses: Digital Electronics, Computer Architecture, Operations Research, Logic Curcuits, Multimedia Systems, Distributed Systems, Computer Networks, Computer Simulations
 - Cumulative GPA: 16.05/20 (A-)
 - Last four semesters GPA: 17.01/20 (A)
 - Rank of GPA in the class of 2007: 5/57

Teaching Experience

- **Introduction to Computer Science (TA)** Duke University, US
COMPSCI101, Computer Science Department Jan. 2015 – May 2016
 - Grading assignments and exams, office hours.
- **Data Structures (TA)** Bilkent University, Turkey
CS102, Computer Engineering Department Jan. 2014 – Jun. 2014
 - Grading assignments and quizzes, giving lectures, and proctoring exams.
- **Operating Systems (TA)** Bilkent University, Turkey
CS342, Computer Engineering Department Jan. 2014 – May. 2014
 - Grading assignments and projects.
- **Computer Networks (TA)** Bilkent University, Turkey
EE421, Department of Electrical and Electronics Engineering Jan. 2013 – May. 2014
 - Designing and grading projects.
- **Java Programming Lab (Instructor)** Bilkent University, Turkey
(CS101, CS102, CS114), Computer Engineering Department Sep. 2012 – Jun. 2014
 - Preparing lab questions, grading, and lab administration.

Publications

- **Amir Rahimzadeh Ilkhechi**, Ibrahim Korpeoglu, Özgür Ulusoy, “Network-aware virtual machine placement in cloud data centers with multiple traffic-intensive components”, *Computer Networks*, Volume 91, 14 November 2015, Pages 508-527, ISSN 1389-1286, <http://dx.doi.org/10.1016/j.comnet.2015.08.042>

- **Amir Rahimzadeh Ilkhechi**, Ibrahim Korpeoglu, Uğur Güdükbay, Özgür Ulusoy, “PETAL: A Fully Distributed Location Service for Wireless Ad-hoc Networks”, *Journal of Networks and Computer Applications* (accepted on Jan. 20, 2017)
- **Amir Ilkhechi**, Michael Mao, Alex Galakatos, Andrew Crotty, Ugur Cetintemel “DeepPress: A deep semantic compressor for relational databases”, *under preparation*
- Prasetya Utama, Nathaniel Weir, Fuat Basik, Carsten Binnig, Ugur Cetintemel, Benjamin Httasch, **Amir Ilkhechi**, Shekar Ramaswamy, Arif Usta, “An End-to-end Neural Natural Language Interface for Databases”, *submitted to SIGMOD 2019*
- Fuat Basik, Benjamin Httasch, **Amir Ilkhechi**, Arif Usta, Shekar Ramaswamy, Prasetya Utama, Nathaniel Weir, Carsten Binnig, and Ugur Cetintemel. 2018. DBPal: A Learned NL-Interface for Databases. *In Proceedings of the 2018 International Conference on Management of Data (SIGMOD '18)*.

Computer Skills

- Programming Languages in the order of proficiency: Java, Python, Scala, C++, C#, C, Kotlin
- Modeling Frameworks and Simulation Tools: NS3, JavaSim, CPN Tools for Colored Petri Nets, Slam, Quartos
- Word Processor: L^AT_EX, Microsoft Office Word.
- Operating Systems: Linux, Macintosh, Windows
- Database Management System: SQL Server, Oracle, PostgreSQL, MySQL
- Web design: ASP.NET, PHP, HTML5.
- Distributed Computing: Hadoop, Spark, OpenStack.
- Hardware Virtualization: VMWare, Xen, KVM, VirtualBox.
- Networking: Network+, Server+, MCITP, CCNA, CCNP, CCDA, OpenFlow, Beacon.

Research Interest

Major: Database Systems, Data Mining and Knowledge Discovery, Applications of Machine Learning on Databases, Distributed Systems

Minor: Deep Learning, Computer Networks, Graph Theory.

Language Skills

Turkic (Azerbaijani & Turkish): Mother tongue.

English: Fluent.

Persian: Bilingual Native.

Arabic: Basic Understanding.

Academic References

- **Dr. Ugur Cetintemel (PhD Advisor)** Brown University, USA
ugur@cs.brown.edu
Professor, Computer Science Department
- **Dr. İbrahim Körpeoğlu (MS Advisor)** Bilkent University, Turkey
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Associate Professor, Computer Engineering Department
- **Dr. Özgür Ulusoy (MS Co–advisor)** Bilkent University, Turkey
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Professor, Computer Engineering Department
- **Dr. Öznur Taştan** Bilkent University, Turkey
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Assistant Professor, Computer Engineering Department
- **Dr. Uğur Güdükbay** Bilkent University, Turkey
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Professor, Computer Engineering Department