

# Bilal Gonen

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## EDUCATION

Ph.D. in [Computer Science](#), University of Nevada, Reno, NV, USA  
*Aug 2006 - May 2011 (expected graduation)*

M.S. in [Computer Science](#), University of Georgia, Athens, GA, USA  
*Aug 2003 - Aug 2006*

B.E. in [Computer Engineering](#), Sakarya University, Sakarya, Turkey *1998 - 2002*

## EXPERIENCE

- 7/2009 – ...                      Research Assistant, Biology Department, University of Nevada, Reno  
Working with Dr. Guy Hoelzer.
- 8/2006 – 5/2009                    Teaching Assistant, Computer Science, University of Nevada, Reno  
Instructed lab sessions teaching C++ programming, and grading weekly projects.
- 5/2009 – 8/2009                    Intern, PowerDEX Inc.  
Web programmer (PHP, MySQL, HTML, JavaScript, CSS, AJAX)
- 5/2008 – 8/2008                    Intern, Testwave LLC.,  
Developed a database-driven system in ASP.NET 3.5, SQL server 2005
- 5/2007 – 8/2007                    Intern, Yourally Project,  
Web programmer (PHP, MySQL, HTML, JavaScript, CSS, AJAX)
- 1/2006 – 8/2006                    Research Assistant, Computer Science, University of Georgia, GA, USA  
[LSDIS](#) (Large Scale Distributed Information Systems) Lab
- 1/2004 – 5/2005                    Teaching Assistant, Computer Science, University of Georgia, GA, USA  
Database Management Systems, Algorithms, Data Structures, Internet Programming.
- 8/2005 – 5/2006                    Instructor, University of Georgia, GA, USA  
Taught Turkish Language.
- 7/2001 – 9/2001                    Intern, Datateknik Exper, Computer Production Factory, Istanbul, Turkey.  
Served in Production, Assembly Line, Technique Service, Networking Department.
- 8/2000 – 10/2000                    Intern, Web developer, Channel D Television, Istanbul, Turkey.

## PROJECTS

- [Semantic Browser](#) (The project for my master thesis)  
Semantic Browser is a tool that enables the users to traverse among the semantically connected documents easily. The documents are connected by using the relationships, such as "causes", "adjacent to", "produces"...etc. Implemented by using HTML, DHTML, Ant & Tomcat, AJAX (Asynchronous JavaScript And XML), JSP (Java Server Page), Java Script, XMLDOM, DHTML, Ontology in RDF format, Lucene indexing (Pure Java code), Eclipse WTP (All-In-One) for Java coding.  
Details: <http://lsdis.cs.uga.edu/projects/semdis/SemanticBrowser>
- [SemDis](#) (Semantic Discovery: Discovering Complex Relationships in Semantic Web)  
A second generation of the Web, "Semantic Web", will be built by adding semantic annotations that software can understand and from which humans can benefit. Modeling, discovering and reasoning about complex relationships on the Semantic Web will enable this vision. <http://lsdis.cs.uga.edu/projects/semdis>

- [Bioinformatics in distributed database](#)  
Created a distributed mini database functionality. The communication between the client and server is through a named pipe. Built with MS Visual Studio 6. Details: <http://www.bilalgonen.com/courses/database>
- [Link Annotation](#)  
Annotate webpage & its links with concepts. This project presents new idea of propagating concept from a webpage to the links pointing to that page or from the links to the webpage.
- Senior Project (B.S. in Computer Engineering, Sakarya University, Turkey)  
Distant Learning. Details: [http://www.bilalgonen.com/resume/graduation\\_english.htm](http://www.bilalgonen.com/resume/graduation_english.htm)

## **TEACHING**

8/2006 – 5/2009 Teaching Assistant, Computer Science, University of Nevada, Reno  
Instructed lab sessions teaching C++ programming, and grading weekly projects.

1/2004 – 5/2005 Teaching Assistant, Computer Science, University of Georgia, GA, USA  
Database Management Systems, Algorithms, Data Structures, Internet Programming.

8/2005 – 5/2006 Instructor, University of Georgia, GA, USA  
Taught Turkish Language.

## **AWARDS**

- Ranked 3, [ACM programming contest](#) at University of Nevada, Reno (2008).
- Interpreter Volunteer, The INTEL International Science and Engineering Fair (3/2009)  
The world's largest international pre-college science competition. 1,600 finalists from nearly 60 countries.
- UGA World Leader for Fall-2005 International Orientation Week.

## **ACTIVITIES**

- President of Turkish Student Association, University of Georgia, USA (8/2004 – 5/2006)

## **SKILLS**

C++, C#, Java, Python, ASP.NET, SQL Server 2005, Linq-to-SQL, PHP, MySQL, JavaScript, AJAX, JSP, Ant&Tomcat, XMLDOM, DHTML, PhotoShop, Flex.

**LANGUAGES**; English, Turkish (native)

## **RESEARCH STATEMENT AND CAREER GOALS**

**Long-term goal:** Online configuration of large-scale systems require parameter optimization to be done within a limited amount of time. This time limit is even more pressing when configuration is needed as a recovery response to a failure in the system. To quickly configure such systems in an online manner, Our long-term goal is to develop a Trans-Algorithmic Search (TAS) framework which leverages multiple optimization search algorithms in an iterative manner.

**My current aim in my research** is to apply this Trans-Algorithmic Search (TAS) framework to NS-2 computer network simulator to demonstrate that our TAS framework improves the overall performance of the network by changing the link costs, hence re-routing the flows based on OSPF intra-domain algorithm.

**Career Goals:** I plan to apply for postdoc positions upon completion of Ph. D. After the postdoc, I will apply for tenure track positions at research/teaching Ph D. I expect to finish Ph D by August, 2010.

## **REFERENCES**

**Murat Yuksel (PhD Thesis Advisor)**

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Department of Computer Science and Engineering, 171  
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**Sushil J. Louis (My supervisor for teaching assistantship)**

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**Amit P. Sheth (M.S. Thesis Advisor)**

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Kno.e.sis Center, Computer Science & Engineering  
Wright State University  
Phone: 937-775-5203  
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<http://knoesis.wright.edu/amit>

**Eileen T. Kraemer (My supervisor for teaching assistantship at UGA)**

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Computer Science Department  
University of Georgia  
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