Nurefşan Gür

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RESEARCH INTERESTS — Linked Open Data (LOD), Semantic Web, Spatial Data, Data Warehouses, Big Data, Machine Learning, Internet Of Things (IoT), On-Line Analytical Processing (OLAP) and Spatial OLAP, Geographical Information Systems (GIS)

JOB EXPERIENCE

Accobat – Copenhagen, Denmark   **January 2018** – *ongoing*
Senior Business Intelligence Consultant

- **BI:** Building full-stack ETL and data warehouse solutions (PaaS and IaaS) for a wide range of customers (PSO customers, online retail shop, property management), optimizing the ETL process, working on bug fixes for various customer solutions, BI project migrations, change data capture (CDC), query optimization, code reviewing (Visual Basic, C#, PowerShell, SQL ETL scripts).

- **AI:** Coordinating and implementing internal and customer projects for churn modeling with Machine Learning solutions in the cloud and on-premise, deployment and code reviewing (R).

- **IoT:** Implementing and deploying demo IoT solutions with Azure Cortana Intelligence Suite components and Power BI. Management of the IoT project with the partner sensor company, in-house data scientist, developer, cloud team, and sales department. Code reviewing and delivery (C#).

Aalborg University – Aalborg, Denmark   **August 2013 – December 2017**
Teaching assistant and supervisor at the Department of Computer Science

- Teaching assistant on the Programming Paradigms course for master students during three semesters (Autumn 2013, 2015, and 2016).

- Supervision of three groups of second year bachelor students for their group project on object oriented programming, analysis, and design during three semesters (Autumn 2013, 2015, and 2016).

- Supervision of seven groups of third year bachelor students for their group project (GIRAF) on developing mobile application for autistic children with Scrum software development method during three semesters (Spring 2014, 2016, and 2017).

MEKSA Vakfı (NGO) – Istanbul, TR   **February 2013 - August 2013**
Full time job as a lecturer

- Tutoring socio-economically disadvantageous women to use computers, social media, web and office tools in order to prepare them for finding a job.

IMP – Istanbul Metropolitan Planning, Istanbul Municipality Planning and Urban Design Center, GIS and Remote Sensing Department, TR   **June 2009 - July 2010**
Full time job as a GIS Software and System Engineer

- Geocoding residents and citizen IDs with governmental map APIs for Istanbul and Kocaeli municipalities to be used at the back-end of various information systems, e.g., health information system, address information system (JS, C#).

- Setting up a shared geo-data portal for IMP internal use via LDAP.

- Caching and publishing map tiles to be used in different applications (ArcGIS Server).

BİMTAŞ - Boğaziçi Consultant Engineering Control Inc., GIS and Software Development Department, TR   **April 2008 - June 2009**

Full time job as a GIS Software Engineer

- Developing automation systems and map applications (web/desktop) for various civil government organizations (C#, .NET).

- Developing a bus scheduling software and integrate it with maps for IETT (Istanbul Electricity, Tramway and Tunnel General Management) buses (C#, .NET).

EDUCATION

Aalborg University (AAU), Denmark   **August 2013 - December 2017**
Université Libre de Bruxelles (ULB), Belgium   **October 2014 - August 2015**

Ph.D. *Computer Science and Engineering (IT4BI-DC)* **August 2013 - *ongoing***

- Thesis Topic: Modeling, Annotating, and Querying Geo-semantic Data Warehouses
- Supervisors: Prof. Torben Bach Pedersen (AAU), Prof. Katja Hose (AAU), Prof. Esteban Zimányi (ULB)
- Area of Study: Linked Open Data, Spatial Data Warehouses, Spatial OLAP, Governmental Open Data

Universitat Jaume I (UJI) – Castellón, Spain
Westfälische Wilhelms Universität (WWU) – Münster, Germany
Universidade Nova de Lisboa (UNL) – Lisboa, Portugal

M.Sc. *Geospatial Technologies (Joint Degree)* **September 2010 - March 2012**

- Thesis Topic: GI Systems for Public Health with an Ontology-based Approach
- Supervisors: Dr. Laura Díaz, Dr. Tomi Kauppinen, Prof.Dr. Marco Painho
- Area of Study: Linked Open Data, GIS, spatial/health/statistical ontologies, semantic web

Istanbul Bilgi University – Istanbul, Turkey

B.Sc. *Computer Science* **September 2002 - June 2008**

- Thesis Topic: Simulation of Land Use Change by Multi-agent Systems Approach
- Advisor: Assoc. Prof. Mehmet Gençer
- Area of Study: Agent-based computing, GIS, gentrification, land use change, urban development

Fachochschule Vorarlberg - Vorarlberg, Austria

Erasmus Exchange Student **September 2006 - March 2007**

TECHNICAL SKILLS

Programming: *Enterprise development;* C#, .NET, T-SQL, R *Research development (academia);* Scheme, Lisp, Logo, Python, R, Java, JS, SPARQL
Version Control: TFS, GIT, SVN
Cloud Applications: Azure Stream Analytics Jobs (and QL), Azure Event Hubs, Azure Data Factory, Azure Machine Learning Studio/Workbench, Azure SQL Database/Data warehouses, Azure Analysis Services
Microsoft BI Stack: SSIS, SSAS, PowerBI, SQL, CDC

Enterprise Applications: Database Servers (MySQL, MS SQL, PostgreSQL, Geo Mondrian, OpenLink Virtuoso Triple Store), Application Servers (Apache HTTP Server, Tomcat, Axis, IIS)

GIS Applications and APIs: ESRI Products (ArcGIS Desktop, ArcGIS Server, ArcIMS, ArcSDE, ArcObjects API, ArcGlobe, ArcExplorer), QGIS, gvSIG, OpenStreetMap API

PUBLICATIONS

[1] **Nurefşan Gür**, Torben B. Pedersen, Katja Hose, Mikael Midtgaard. Multidimensional Enrichment of Spatial RDF Data for SOLAP. In *Submission, Semantic Web*.

[2] **Nurefşan Gür**, Jacob Nielsen, Katja Hose, Torben B. Pedersen. GeoSemOLAP: Geospatial OLAP on the Semantic Web Made Easy. In *Proceedings of the 26th International Conference on World Wide Web Companion* (2017).

[3] **Nurefşan Gür**, Torben B. Pedersen, Esteban Zimányi, Katja Hose. A Foundation for Spatial Data Warehouses on the Semantic Web. In *Semantic Web Journal* (2016).

[4] **Nurefşan Gür**, Katja Hose, Torben B. Pedersen, Esteban Zimányi. Enabling Spatial OLAP Over Environmental and Farming Data with QB4SOLAP. In *Joint International Semantic Technology Conference* (2016).

[5] **Nurefşan Gür**, Katja Hose, Torben B. Pedersen, Esteban Zimányi. Modeling and Querying and Spatial Data Warehouses on the Semantic Web. In *Joint International Semantic Technology Conference* (2015).

[6] Alex B. Andersen, **Nurefşan Gür**, Katja Hose, Kim A. Jakobsen, Torben B. Pedersen. Publishing Danish Agricultural Government Data as Semantic Web Data. In *Joint International Semantic Technology Conference* (2014).

[7] **Nurefşan Gür**, Laura Díaz, and Tomi Kauppinen. GI Systems for Public Health with an Ontology Based Approach. In *Proceedings of the AGILE'2012 International Conference on Geographic Information Science* (2012).

AWARDS AND
ACHIEVEMENTS

∗ 26th International World Wide Web Conference Best Demo award - Reviewer's choice
    GeoSemOLAP: Geospatial OLAP on the Semantic Web Made Easy
∗ Erasmus Mundus Joint Doctorates – EMJDs Full Scholarship
    Ph.D. in Information Technologies for Business Intelligence, 2013-2017
∗ Erasmus Mundus Master Courses – EMMCs Full Scholarship
    M.Sc. in Geospatial Technologies, 2010-2012
∗ OSYM Full Scholarship at Istanbul Bilgi University, Computer Science Department, 2002-2008
∗ TUBITAK - Turkey Science and Technology Research Association
    IV.National Mathematics Olympiad 1st Rank, 2000
    IV.National Mathematics Olympiad 2nd Rank Passing Degree, 2001

FOREIGN
LANGUAGES

English: Fluent	**Spanish:** Basic
Danish: Elementary	**German:** Basic

HOBBIES

Swimming, badminton, table tennis, table-top games, pc games, reading, and travelling

REFERENCES

Available upon request.