

ORÇUN GÜMÜŞ

Data Scientist



EDUCATION

2020
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2017

M.Sc., Data Science

Swiss Federal Institute of Technology in Lausanne

Lausanne, Switzerland

- CGPA: 5.11 / 6
- Granted /w TEV International Scholarship

2017
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2012

B.Sc., Computer Science

Bilkent University

Ankara, Turkey

- CGPA: 3.72 / 4
- Ranked top 5%
- Granted /w full tuition waiver

2015

Semester Abroad, Computer Science

Swiss Federal Institute of Technology in Lausanne

Lausanne, Switzerland

- GPA: 5.14/6
- Granted /w SEMP Scholarship

2012
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2007

High School, Science

Galatasaray High School

Istanbul, Turkey



EMPLOYMENT

present
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2019

Mckinsey & Company

Senior Data Scientist

Istanbul, Turkey

- Lead a team in a major Azarbaijan bank for implementation of a probability of default model and limit optimization strategies on street customers
- E2E implementation of a product that is used in multiple clients in petrochemical industry, that includes modelling steam and electricity components in petrochemical plants using bayesian inference & causal inference and dynamic optimization of steam and power generation under time-varying power load using mixed integer programming
- High accuracy electricity price forecasts in a joint effort with Quantumblack and imbalance position optimization for major electricity suppliers in Turkey using bayesian probabilistic programming with state space timeseries modelling on electricity demand and capacity

Position History

- Senior Data Scientist (December 2020–present)
- Data Scientist (June 2020–December 2020)
- Summer Analyst (June 2019–September 2019)

CONTACT

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[@guemues](https://www.linkedin.com/in/@guemues)

[@orcungumus](https://twitter.com/orcungumus)

SKILLS

Programming:

Python
R
SQL
Stan

Interests:







Bayesian statistics
Additive linear models
Timeseries
Optimization
Graph theory
Causal inference
Reinforcement learning
Multilevel models

Software:

Docker
Kubernetes
Git
UNIX
Tableau

Languages:

Turkish (Native)
English (IELTS 7)
French (Intermediate)

- 2019  **Wageningen University & Research**
 Researcher  Wageningen, Netherlands
 • Real-time optimization of nonlinear, complex and black-box greenhouse management system using reinforcement learning
- 2017
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2016  **Somed Analytics**
 Co-founder  Istanbul, Turkey
 • Build ML algorithms that helps brands in marketing strategies using network analysis on Instagram data for targetted ads
- 2016
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2015  **TAZI AI Systems & Teradata Corporation**
 Data Science Internships  Istanbul, Turkey







PUBLICATIONS

- 2020  **Improving greenhouse management using AI-driven decision making systems**
 Orcun, G. (2020). *Improving greenhouse management using AI-driven decision making systems* [Master thesis, Wageningen University & Research]. NA.
- 2019  **Joint Sequential Data Prediction with Multi-stream Stacked LSTM Network**
 Nguyen, T. T., Gumus, O., Nguyen, T., Hung, N., Hexel, R., & Jo, J. (2019). Joint Sequential Data Prediction with Multi-stream Stacked LSTM Network. ** (pp.). Australasian Conference on Data Mining. https://doi.org/10.1007/978-981-15-1699-3_7



TEACHING ASSISTANTSHIPS

- 2018  **Internet Analytics, Swiss Federal Institute of Technology in Lausanne**
 A course about graph processing, recommender systems, clustering and PCA  [EPFL Course Link](#)
- 2016  **Large Scale Data Analysis, Bilkent University**
 A course about Markov chains, PageRank, Map Reduce and collaborative filtering  [Bilkent Course Link](#)



AWARDS AND SERVICE

-  **Professional Awards**
 • Istanbul Earthquake Datathon, second place winner (2020)
 • European Smart Agri Hubs Life Science Hackathon, third place winner (2019)
 • Dean's High Honor Roll (8 Semester), Bilkent University (2012–2017)
 • B/S/H/ Hausgerate Big Data Hackathon, first place winner (2016)
 • Scientific and Technological Research Council of Turkey, first place winner in computer science category (2012)
 • National Entrance Exams, ranked among the top 0.1% among 1.8 million candidates (2012)
 • Infomatrix, International Computer Project Competition, bronze medal recipient in computer science category (2011)
 • Mostratec, Brazilian Science Fair, gold medal recipient in computer science category (2011)
- 2020  **Transparency International anti-corruption award recipient**
 Project owner for democratization of city plans using recent technological developments in 3D building detection and modeling from Aerial LIDAR data
- 2017
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2013  **President of Bilkent eurogame entertainment club**