ORÇUN GÜMÜŞ

Data Scientist



EDUCATION

M.Sc., Data Science

Swiss Federal Institute of Technology in Lausanne

Lausanne, Switzerland

Ankara, Turkey

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

B.Sc., Computer Science

Bilkent University

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

Semester Abroad, Computer Science

Swiss Federal Institute of Technology in Lausanne

Q Lausanne, Switzerland

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

2012 High School, Science

Galatasaray High School

♀ Istanbul, Turkey



III EMPLOYMENT

present | 2019

2007

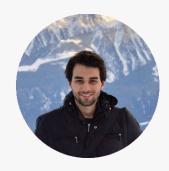
Mckinsey & Company

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 inferance 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 efford with Quantumblack and imbalance position optimization for major electricity supliers 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

- ✓ orcungumus@gmail.com
- in @guemues
- **y** @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)

Wageningen University & Research 2019 **♥** Wageningen, Netherlands Researcher • Real-time optimization of nonlinear, complex and black-box greenhouse management system using reinforcement learning Somed Analytics 2017 ♥ Istanbul, Turkey Co-founder 2016 • Build ML algorithms that helps brands in marketting strategies using network analysis on Instagram data for targetted ads **TAZI AI Systems & Teradata Corporation** 2016 **♀** Istanbul, Turkey **Data Science Internships** 2015 **PUBLICATIONS** Improving greenhouse management using Al-driven decision making systems 2020 Orcun, G. (2020). Improving greenhouse management using Al-driven decision making systems [Master thesis, Wageningen University & Research]. NA. Joint Sequential Data Prediction with Multi-stream Stacked LSTM Network 2019 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 Internet Analytics, Swiss Federal Institute of Technology in Lausanne 2018 A course about graph processing, recommender systems, clustering and PCA @ EPFL Course Link Large Scale Data Analysis, Bilkent University 2016 A courseabout 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) Transparency International anti-corruption award recipient 2020 Project owner for democratization of city plans using recent technological developments in 3D building detection and modeling from Aerial LIDAR data

President of Bilkent eurogame entertainment club

2017

2013