

Gorkem Kar

EXPERIENCE

Bahcesehir University, Istanbul Turkey | www.bau.edu.tr

Assistant Professor in Computer Engineering, September 2019 to now

Yeditepe University, Istanbul Turkey | www.yeditepe.edu.tr

Assistant Professor in Computer Engineering, January 2018 to August 2019

General Motors, Michigan USA | www.gm.com

Research and Development Summer Intern, May to August 2015

- Worked in R&D group and completed 2 projects:
 - About creating hybrid speech recognition engine that uses cloud or offline analysis
 - About distinguishing drivers based on driver's behavior from in-vehicle data
- Both projects required coding and testing within GM vehicles.

Winlab, NJ USA | www.winlab.rutgers.edu

Graduate and Teaching Assistant, September 2011 to May 2017

- Did research in mobile computing, location privacy and connected vehicles
- Wrote and published 7 ACM/IEEE papers and acquired 1 patent
- Conducted several courses as a course instructor, a teaching assistant and a grader including vehicular networks, computer networks and mobile programming

Turkish Aerospace Industries, Ankara Turkey | www.tai.com.tr/en

Research and Development Summer Intern, May to September 2008

- Used FMEA analysis to mitigate project risks

EDUCATION

Rutgers, The State University of New Jersey, School of Engineering | May 2017

- PhD. in Electrical and Computer Engineering | GPA: 4.00
- Concentration: Mobile and Vehicular Networks, Machine Learning
- Thesis Title: Enhancing Vehicle Data Availability and Privacy for Connected Cars

Bilkent University, School of Engineering | May 2011

- M.S. in Electrical and Electronics Engineering | GPA: 3.81
- Concentration: Frequency Usage Patterns In 4G Networks
- Thesis Title: Performance of Static and Adaptive Subchannel Allocation Schemes for Fractional Frequency Reuse in WiMAX Networks

Bilkent University, School of Engineering | May 2009

- B.S. in Electrical and Electronics Engineering | GPA: 3.35

PROJECTS

Harnessing the Automotive Infoverse, Rutgers University NJ | <http://www.ece.rutgers.edu/news/harnessing-automotive-infoverse>

Research Engineer, September 2015 to May 2017

- Presented goals, methods and timeline for the project and published 2 papers with results

SKILLS

Tools: Adobe, Apple iWork suite, Microsoft Office Suite and Google Sites

Technical: Matlab, Python, Java, C++, Android and LATEX

Spoken Languages: English, Turkish and Conversational Spanish

PUBLICATIONS

- [Gorkem Kar](#), Batuhan Asiroglu, and Fatih Sinan Bir. “[Scotto: Real-time Driver Behavior Scoring Using In-Vehicle Data.](#)” In *2019 IEEE 89th Vehicular Technology Conference*. ACM, 2019.
- S. Helvaci, A. Senova and [Gorkem Kar](#). “[Improving Driver Behavior Using Gamification.](#)” The International Conference on Mobile Web and Intelligent Information Systems (MOBIWIS’2018). Barcelona, Spain, 6-8 August, 2018.
- [Gorkem Kar](#), Shubham Jain, Marco Gruteser, Fan Bai, and Ramesh Govindan. “[Real-time traffic estimation at vehicular edge nodes.](#)” In *Proceedings of the Second ACM/IEEE Symposium on Edge Computing*, p. 3. ACM, 2017.
- [Gorkem Kar](#), Shubham Jain, Marco Gruteser, Fan Bai, and Ramesh Govindan. “[PreDriveID: Pre-Trip Driver Identification from In-Vehicle Data.](#)” In *Proceedings of the Second ACM/IEEE Symposium on Edge Computing*, p. 3. ACM, 2017.
- Hang Qiu, Fawad Ahmad, Ramesh Govindan, Marco Gruteser, Fan Bai, and [Gorkem Kar](#). “[Augmented Vehicular Reality: Enabling Extended Vision for Future Vehicles.](#)” In *Proceedings of the 18th International Workshop on Mobile Computing Systems and Applications*, pp. 67-72. ACM, 2017.
- Jian Liu, Yan Wang, [Gorkem Kar](#), Yingying Chen, Jie Yang, and Marco Gruteser. “[Snooping keystrokes with mm-level audio ranging on a single phone.](#)” In *Proceedings of the 21st Annual International Conference on Mobile Computing and Networking*, pp. 142-154. ACM, 2015.
- [Gorkem Kar](#), Hossen Mustafa, Yan Wang, Yingying Chen, Wenyuan Xu, Marco Gruteser, and Tam Vu. “[Detection of on-road vehicles emanating gps interference.](#)” In *Proceedings of the 2014 ACM SIGSAC Conference on Computer and Communications Security*, pp. 621-632. ACM, 2014.
- Hang Qiu, Jinzhu Chen, Shubham Jain, Yurong Jiang, Matt McCartney, [Gorkem Kar](#), Fan Bai, Donald Grimm, Marco Gruteser, and Ramesh Govindan. “[Towards Robust Vehicular Context Sensing.](#)” *IEEE Transactions on Vehicular Technology* (Volume: 67 , Issue: 3 , March 2018).

PATENTS

- Bai, Fan, [Gorkem Kar](#), Douglas C. Martin, Donald K. Grimm, and Marco Gruteser. "Method and apparatus of differentiating drivers based on driving behaviors." U.S. Patent Application 15/284,187, filed May 25, 2017.