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RESEARCH INTERESTS	Low-latency network design and analysis for 5G, mmWave communications for vehicular networks, applications of machine learning on 5G-NR and LTE-Advanced.	
EDUCATION	<b>NYU Tandon School of Engineering</b> , New York, NY, USA PhD., Electrical and Computer Engineering, September 2016 - Present <ul style="list-style-type: none"> <li>• <b>CGPA:</b> 3.95/4.00</li> <li>• <b>Advisor:</b> Prof. Dr. Shivendra Panwar</li> <li>• Ernst Weber Fellowship, Ph.D.</li> <li>• <b>Related Courses Taken:</b> Wireless Communications, Massive MIMO, Advanced Machine Learning, Convex/Nonsmooth Optimization, Information Theory, Advanced Signal Processing, Queuing Theory</li> </ul> <b>Bilkent University</b> , Ankara, Turkey M.S., Electrical and Electronics Engineering, September 2013 - June 2016 <ul style="list-style-type: none"> <li>• <b>CGPA:</b> 3.84/4.00</li> <li>• <b>Advisor:</b> Prof. Dr. Nail Akar</li> <li>• <b>Thesis title:</b> "Energy Management in Energy Harvesting Wireless Sensor Nodes With Lifetime Constraints"</li> <li>• TUBITAK Graduate Scholarship</li> </ul> B.S., Electrical and Electronics Engineering, August 2009 - June 2013 <ul style="list-style-type: none"> <li>• <b>CGPA:</b> 3.77/4.00</li> <li>• Comprehensive Scholarship by Placement Examination (OYS)</li> </ul> <b>Ankara Ataturk Anatolian High School</b> , Ankara, Turkey September 2005 - June 2009	
PROFESSIONAL EXPERIENCE	<b>NYU Wireless, NYU Tandon School of Engineering</b> , New York, NY, USA Teaching/Research Assistant Fall 2016 - Present <b>Samsung Research America</b> , Berkeley Heights, NJ, USA Intern, SMI May 2020 - August 2020 <ul style="list-style-type: none"> <li>• Electric and magnetic fields (EMF)-based power control for Massive MIMO</li> </ul> <b>Futurewei Technologies</b> , Bridgewater, NJ, USA Systems Engineering Intern May 2019 - August 2019 <ul style="list-style-type: none"> <li>• Data/statistical analysis and machine learning-based prediction/performance improvement of link adaptation in 5G-NR</li> </ul> Systems Engineering Intern May 2018 - August 2018 <ul style="list-style-type: none"> <li>• Optimizing link adaptation in 5G-NR using machine learning techniques</li> </ul> Systems Engineering Intern May 2017 - August 2017 <ul style="list-style-type: none"> <li>• Carrier aggregation in LTE-Advanced</li> </ul> <b>Bilkent University</b> , Ankara, Turkey Research Assistant, Graduate Teaching Assistant Fall 2013 - Spring 2016 <b>ASELSAN</b> , Ankara, Turkey Part-Time System Engineer December 2012 - June 2013 <ul style="list-style-type: none"> <li>• Design of Wireless Communication Devices and Networks for Police and Gendarmerie</li> </ul>	
JOURNAL PUBLICATIONS	<ul style="list-style-type: none"> <li>• <b>C. Tunc</b>, MF. Özkoç, F. Fund and S. Panwar. "The Blind Side: Latency Challenges in Millimeter Wave Networks for Connected Vehicle Applications", IEEE Transactions on Vehicular Technology, under review.</li> <li>• E. O. Gamgam, <b>C. Tunc</b> and N. Akar. "On the Queuing Model of the Energy-Delay Trade-Off in Wireless Links with Power Control and Link Adaptation", IEEE Transactions on Communications, Feb 2019.</li> </ul>	

	<ul style="list-style-type: none"> <li>• N. Akar, <b>C. Tunc</b>, M. A. Gaertner and F. Erden. "Performance of Shortest Cumulative Access Time First (SCATF) Disk Scheduling Algorithms", The Turkish Journal of Electrical Engineering &amp; Computer Sciences, July 2017.</li> <li>• <b>C. Tunc</b> and N. Akar. "Markov Fluid Queue Model of an Energy Harvesting IoT Device with Adaptive Sensing", Performance Evaluation, May 2017.</li> <li>• <b>C. Tunc</b> and N. Akar. "Fixed-point Analysis of a Network of Routers with Persistent UDP and TCP Flows and Class-based Weighted Fair Queuing" Telecommunication Systems, July 2016.</li> <li>• <b>C. Tunc</b> and N. Akar. "Mapping Time-varying IP Traffic to Flexible Optical Paths in Flexgrid Optical Networks" Photonic Network Communications, August 2014.</li> </ul>
CONFERENCE PUBLICATIONS	<ul style="list-style-type: none"> <li>• <b>C. Tunc</b> and S. Panwar. "Analysis of Outage Probability and Duration in Millimeter Wave Vehicle-to-Infrastructure Networks", IEEE 92nd Vehicular Technology Conference: VTC2020-Fall, Victoria, BC Canada, to appear.</li> <li>• <b>C. Tunc</b> and S. Panwar. "Optimal Transmission Policies for Energy Harvesting Age of Information Systems with Battery Recovery", 2019 Asilomar Conference on Signals, Systems, and Computers, Pacific Grove, CA, USA.</li> <li>• <b>C. Tunc</b>, MF. Özkoç and S. Panwar. "Millimeter Wave Coverage and Blockage Duration Analysis for Vehicular Communications", IEEE 90th Vehicular Technology Conference: VTC2019-Fall, Honolulu, Hawaii, USA.</li> <li>• <b>C. Tunc</b> and N. Akar. "Efficient Transport of Time-varying IP Traffic in Flexi-grid Optical Networks", Signal Processing and Communications Applications Conference (SIU), Trabzon, Turkey, April 2014.</li> </ul>
PRESENTATIONS	<b>C. Tunc</b> and N. Akar. "Performance Modeling of Delay-based Dynamic Speed Scaling", The Ninth International Conference on Matrix-Analytic Methods in Stochastic Models (MAM9), Budapest, Hungary, June 2016.
THESIS	<b>C. Tunc</b> . "Energy Management in Energy Harvesting Wireless Sensor Nodes with Lifetime Constraints." MS Thesis, Bilkent University, June 2016.
LANGUAGES	<b>English:</b> Fluent, <b>Spanish:</b> Moderate, <b>German:</b> Beginner, <b>Turkish:</b> Native
COMP. SKILLS	MATLAB/CVX/Gurobi, Java, Python, TensorFlow, Torch, VHDL, C, R, AMPL, Assembly.
AWARDS & ACHIEVEMENTS	<ul style="list-style-type: none"> <li>• Ernst Weber Fellowship (PhD), NYU Tandon School of Engineering</li> <li>• TUBITAK Graduate Scholarship</li> <li>• Bilkent University Master of Science Study Full Scholarship</li> <li>• Bilkent University High Honor Student ( 2009-2010 Fall, 2009-2010 Spring, 2010-2011 Fall, 2010-2011 Spring, 2011-2012 Fall, 2012-2013 Fall, 2012-2013 Spring)</li> <li>• Bilkent University Honor Student ( 2011-2012 Spring)</li> <li>• TUSIAD's 'Bu Gençlikte İş Var' Honourable Mention Award</li> <li>• Comprehensive Scholarship by University Placement Examination (OYS)</li> <li>• Ranked 420th in University Entrance Exam among 1.4 million candidates</li> </ul>