

CONTACT INFORMATION	370 Jay Street, Floor 9, Brooklyn, NY 11201	E-mail: ct1909@nyu.edu Mobile: +1 (929) 213 5658 Web: NYU Wireless
RESEARCH INTERESTS	Stochastic design and analysis of wireless networks, mobile edge computing, applications of machine learning on 5G-NR and LTE-Advanced.	
EDUCATION	NYU Tandon School of Engineering , New York, NY, USA PhD., Electrical and Computer Engineering, September 2016 - Present <ul style="list-style-type: none"> • CGPA: 3.95/4.00 • Advisor: Prof. Dr. Shivendra Panwar • Ernst Weber Fellowship, PhD • Related Courses Taken: Wireless Communications, Massive MIMO, Advanced Machine Learning, Convex/Nonsmooth Optimization, Information Theory, Advanced Signal Processing, Queuing Theory Bilkent University , Ankara, Turkey M.S., Electrical and Electronics Engineering, September 2013 - June 2016 <ul style="list-style-type: none"> • CGPA: 3.84/4.00 • Advisor: Prof. Dr. Nail Akar • Thesis title: "Energy Management in Energy Harvesting Wireless Sensor Nodes With Lifetime Constraints" • TUBITAK Graduate Scholarship B.S., Electrical and Electronics Engineering, August 2009 - June 2013 <ul style="list-style-type: none"> • CGPA: 3.77/4.00 • Comprehensive Scholarship by Placement Examination (OYS) Ankara Ataturk Anatolian High School , Ankara, Turkey September 2005 - June 2009	
PROFESSIONAL EXPERIENCE	NYU Wireless, NYU Tandon School of Engineering , New York, NY, USA Teaching/Research Assistant Fall 2016 - Present Samsung Research America , Berkeley Heights, NJ, USA Intern, SMI May 2020 - August 2020 <ul style="list-style-type: none"> • Electric and magnetic fields (EMF)-based power control methods for 5G NR Futurewei Technologies , Bridgewater, NJ, USA Systems Engineering Intern May 2019 - August 2019 <ul style="list-style-type: none"> • Data/statistical analysis and machine learning-based prediction/performance improvement of link adaptation in 5G-NR Systems Engineering Intern May 2018 - August 2018 <ul style="list-style-type: none"> • Optimizing link adaptation in 5G-NR using machine learning techniques Systems Engineering Intern May 2017 - August 2017 <ul style="list-style-type: none"> • Carrier aggregation in LTE-Advanced Bilkent University , Ankara, Turkey Research Assistant, Graduate Teaching Assistant Fall 2013 - Spring 2016 ASELSAN , Ankara, Turkey Part-Time System Engineer December 2012 - June 2013 <ul style="list-style-type: none"> • Design of Wireless Communication Nodes and Networks for Police and Gendarmerie 	
JOURNAL PUBLICATIONS	<ul style="list-style-type: none"> • C. Tunc, 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. • E. O. Gamgam, C. Tunc 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. 	

	<ul style="list-style-type: none"> • N. Akar, C. Tunc, M. A. Gaertner and F. Erden. "Performance of Shortest Cumulative Access Time First (SCATF) Disk Scheduling Algorithms", The Turkish Journal of Electrical Engineering & Computer Sciences, July 2017. • C. Tunc and N. Akar. "Markov Fluid Queue Model of an Energy Harvesting IoT Device with Adaptive Sensing", Performance Evaluation, May 2017. • C. Tunc 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. • C. Tunc and N. Akar. "Mapping Time-varying IP Traffic to Flexible Optical Paths in Flexgrid Optical Networks" Photonic Network Communications, August 2014.
CONFERENCE PUBLICATIONS	<ul style="list-style-type: none"> • C. Tunc 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. • C. Tunc 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. • C. Tunc, 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. • C. Tunc 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.
PRESENTATIONS	C. Tunc 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	C. Tunc . "Energy Management in Energy Harvesting Wireless Sensor Nodes with Lifetime Constraints." MS Thesis, Bilkent University, June 2016.
LANGUAGES	English: Fluent, Spanish: Moderate, German: Beginner, Turkish: Native
COMP. SKILLS	MATLAB/CVX/Gurobi, Java, Python, TensorFlow, Torch, VHDL, C, R, AMPL, Assembly.
AWARDS & ACHIEVEMENTS	<ul style="list-style-type: none"> • Ernst Weber Fellowship (PhD), NYU Tandon School of Engineering • TUBITAK Graduate Scholarship • Bilkent University Master of Science Study Full Scholarship • 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) • Bilkent University Honor Student (2011-2012 Spring) • TUSIAD's 'Bu Gençlikte İş Var' Honourable Mention Award • Comprehensive Scholarship by University Placement Examination (OYS) • Ranked 420th in University Entrance Exam among 1.4 million candidates