Contact Information	Northeastern University Electrical Engineering Departm CDSP Lab, 140 The Fenway	ent Webpage: E-mail: LinkedIn:	https://www1.coe.neu.edu/stadayon stadayon@ece.neu.edu https://www.linkedin.com/in/amirtadayon			
Education	Northeastern University (N Ph.D. Candidate, Electric GPA: 4.0/4.0 SUPERVISOR: Prof. Milica COURSES: Introduction to Mathematical Statistics (I Processing, Functional Am	 heastern University (NEU) Ph.D. Candidate, Electrical Engineering Department GPA: 4.0/4.0 SUPERVISOR: Prof. Milica Stojanovic COURSES: Introduction to Machine Learning, Analysis I (MATH), Advanced Machine Learning, Mathematical Statistics (MATH), Probability II (MATH), Information Theory, GNSS Signal Processing, Functional Analysis (MATH) 				
	Northeastern University (N M.Sc., Electrical Engineer GPA: 4.0/4.0 THESIS: Channel Estimat SUPERVISOR: Prof. Milica COURSES: Linear Systems munications, Modern Sign Communications	ortheastern University (NEU) Sep. 2016 M.Sc., Electrical Engineering Department GPA: 4.0/4.0 THESIS: Channel Estimation for OFDM Systems SUPERVISOR: Prof. Milica Stojanovic COURSES: Linear Systems Analysis, Applied Probability and Stochastic Processes, Digital Com- munications, Modern Signal Processing, Adaptive and Statistical Signal Processing, Wireless Communications				
	 University of Tehran B.Sc., Electrical Engineering Department GPA: 15.00/20.00 THESIS: A Novel Method for Source Enumeration Using Direction of Arrival Estimation SUPERVISOR: Prof. Ali Olfat COURSES: Signals and Systems, Communications I, Communications II, Information Digital Transmission Systems, Synthesis and Design of Filters, Fields and Waves, Com tions Circuits, Microwave I, Antennas I (Theory and Design) 					
Journal Publications	 [J2] A. Tadayon and M. Stoj learning for multichannel vol. 44, no. 4, pp. 820–839 [J1] A. Tadayon and M. Stoja for high data rate acoust no. 4, pp. 932–942, Oct. 2 	 A. Tadayon and M. Stojanovic, "Iterative sparse channel estimation and spatial correlation learning for multichannel acoustic OFDM systems," <i>IEEE Journal of Oceanic Engineering</i>, vol. 44, no. 4, pp. 820–836, Oct. 2019. A. Tadayon and M. Stojanovic, "Low-complexity superresolution frequency offset estimation for high data rate acoustic OFDM systems," <i>IEEE Journal of Oceanic Engineering</i>, vol. 44, no. 4, pp. 932–942, Oct. 2019. 				
Conference Publications	 [C9] A. Tadayon, M. Taya, at acoustic OFDM systems, Conference (UComms), I. [C8] A. Tadayon and M. Stoja in Proc. IEEE 20th Intermunications (SPAWC), C. [C7] M. Taya, A. Tadayon, and of partial FFT demodula Charleston, SC, Oct. 2016 [C6] E. Demirors, J. Shi, A. I. net of underwater things Conference (UComms), I. [C5] A. Tadayon and M. Stoja of acoustic OFDM system Conference (UComms), I. [C4] A. Tadayon and M. Stoja Real data analysis," in P Pacific Grove, CA, Oct. 2 	nd M. Stojanovic, "On " in <i>Proc. IEEE 5th Un</i> erici, Italy, Aug. 2021, p novic, "Coherent multica <i>national Workshop on S</i> ?annes, France, Jul. 2019 l M. Stojanovic, "Mobile tion with coherent detect 8, pp. 1–7. Duong, <i>et al.</i> , "The SEA ," in <i>Proc. IEEE 4th Un</i> erici, Italy, Aug. 2018, p novic, "Exploitation of s as," in <i>Proc. IEEE 4th U</i> erici, Italy, Aug. 2018, p novic, "Path-based char <i>troc. 51st Asilomar Conf</i> 2017, pp. 1759–1763.	mitigating channel time variation effect in nderwater Communications and Networking pp. 1–5. arrier receiver for mobile acoustic channels," ignal Processing Advances in Wireless Com- 0, pp. 1–5. acoustic communications: Real data analysis etion," in Proc. MTS/IEEE OCEANS 2018, Net project: Toward a programmable Inter- nderwater Communications and Networking pp. 1–5. patial coherence for reducing the complexity Underwater Communications and Networking pp. 1–4. mel estimation for acoustic OFDM systems: erence on Signals, Systems, and Computers,			

- [C3] A. Tadayon and M. Stojanovic, "Frequency offset compensation for acoustic OFDM systems," in Proc. IEEE OCEANS 2017, Anchorage, AK, Sep. 2017, pp. 1–5.
- [C2] A. Tadayon and M. Stojanovic, "Iterative sparse channel estimation for acoustic OFDM systems," in Proc. IEEE 3rd Underwater Communications and Networking Conference (UComms), Lerici, Italy, Aug. 2016, pp. 1–5.
- [C1] A. Tadayon and M. Stojanovic, "Estimation and tracking of time-varying channels in OFDM systems," in Proc. 52nd Annual Allerton Conference on Communication, Control, and Computing (Allerton), Monticello, IL, Sep. 2014, pp. 116–122.

INVITED TALKS

[T6]	Applied Research Labratory (ARL), The University of Texas at Austin	Jun. 2	2020
	High rate UWA multicarrier communication systems: Mitigating motion-induced De	oppler e	ffect
[T5]	John Hopkins University Applied Physics Laboratory (APL)	May. 2	2020
	High rate UWA multicarrier communication systems: Mitigating motion-induced De	oppler e	ffect
[T4]	MIT Lincoln Lab	Apr. 2	2020
	High rate UWA multicarrier communication systems: Mitigating motion-induced De	oppler e	ffect
[T3]	NATO - STO CMRE High rate UWA multicarrier communication systems: Challenges and remedies	Feb. 2	2020
[T2]	Underwater Acoustic Signal Processing Workshop (UASP) Coherent OFDM receiver for high data rate acoustic communication systems	Oct. 2	2017
[T1]	NEU ECE PhD Student Seminar Series (NEPSSS) OFDM for multicarrier modulation	Nov. 2	2016

EXPERIENCE

Apple Cellular engineer	Apr. 2021 - present
Qualcomm Senior engineer in modem system group	Aug. 2020 - Mar. 2021
Bose Graduate intern	Summer 2020
Schlumberger-Doll Research Graduate intern	Summer 2018
MathWorks Graduate intern	Summer 2015-2017
Northeastern University Teaching assistant, holding recitation and office hours, and grading a	Fall 2014-present for
• Applied probability and stochastic processes	Fall 2014-2019
• Wireless communications	Spring 2015, 2017
• Information theory (volunteer)	Fall 2019
• Wireless sensor networks	Spring 2016
• Supervised machine learning	Spring 2020
Florida Atlantic University Research scholar, working on time-average Fourier telescopy under su	Fall 2011-Spring 2012 upervision of Prof. Rhodes
Technical University of Munich Research scholar, working on surgical workflow modeling under supe	Summer 2006 ervision of Prof. Navab

Professional Activities	Journal Reviewer			
	• IEEE Journal of Oceanic Engineering			
	• IEEE Transaction on Vehicular Technology	2017, 2020		
	• IEEE Transaction on Wireless Communications			
	• Ad Hoc Networks	2018-2019		
	• IEEE Journal of Internet of Things	2019		
	• EURASIP Journal on Advances in Signal Processing			
	• IEEE Communication Letter	2020		
	• IEEE Signal Processing Letter	2020		
	• Journal of the Acoustical Society of America	2020		
	Conferene Reviewer			
	• IEEE Signal Processing Advances in Wireless Communications (SPAWC)	2019		
	• Underwater Communications and Networking (UComms)	2020		
	Conference Organization			
	• MTS/IEEE OCEANS Session Chair of the Acoustic Telemetry and Communication session	2017		
Professional Membership	IEEE	2007-present		
	• Eta Kappa Nu (HKN)	2014-presents		
	Communication Society	2010-present		
	• Signal Processing Society	2011-preent		
	• Oceanic Engineering Society	2015-present		
	• Information Theory Society	2008-preent		
TECHNICAL	Bosoarch Interests Statistical signal processing digital communications			

SKILLS Research Interests Statistical signal processing, digital communications Programming MATLAB, Python, C++ Simulator Bellhop, Full VirTeX (acoustic channel simulators based on ray tracing) Basic Knowledge: Git, LATEX

Certificates **Technion-edX** Sparse Representations in Signal and Image Processing Sep. 2020 UCSD-Coursera Algorithmic Toolbox Jun. 2016 Mar. 2015 MIT-edX Introduction to Computer Science and Programming Using Python Caltech-edX Learning From Data Dec. 2014 EPFL-Coursera Digital Signal Processing Jul. 2014 Stanford-Coursera Machine Learning Aug. 2013 Brown University-Coursera Coding the Matrix Oct. 2013 Stanford-Coursera Introduction to Mathematical Thinking Dec. 2012

Excellence in review, IEEE Journal of Oceanic Engineering	2018-2019
Recipient of IEEE Signal Processing Society Travel Grant	2019
Recipient of College of Engineering Travel Grant	2019
Candidate for Best Student Paper Award at IEEE SPAWC	2019
Outstanding teaching award of college of engineering	2016
Excellent student in the electrical and computer engineering department	2011
Ranked 80 among $400000+$ students in the nation-wide university entrance exam	2003
Ranked 3 among 400000+ students in the Islamic Azad university entrance exam	2003