Abdallah Moubayed

 $+1\ 519\text{-}697\text{-}5388$ Contact Information amoubaye@uwo.ca Research Wireless Communication, Cross-Layer Design, Resource Allocation, Cognitive Radio Networks, Interests Machine Learning, Data Analytics, e-Learning, Cybersecurity EDUCATION University of Western Ontario (UWO), London, ON, Canada Doctor of Philosophy (Ph.D), Electrical & Computer Engineering, (GPA: 94.6), Expected: Aug. 2018 • Thesis Topic: Optimization Modeling and Machine Learning Techniques Towards Smarter Systems and Processes • Advisors: Abdallah Shami, Ph.D and Hanan Lutfiyya, Ph.D • Research Group: Optimized Communication and Computations (OC2) Lab King Abdullah University of Science and Technology (KAUST), Thuwal, Makkah Province, Kingdom of Saudi Arabia Master of Science (MSc.), Electrical Engineering, (High Distinction, GPA: 3.88/4), May 2014 • Topic: Collaborative Multi-Layer Network Coding For Hybrid Cellular Cognitive Radio Networks • Advisors: Mohamed-Slim Alouini, Ph.D and Tareq Al-Naffouri, Ph.D • Research Group: Communication Theory Lab (CTL) Lebanese American University (LAU), Byblos, Lebanon Bachelor of Engineering (B.E.), Electrical Engineering, (High Distinction, GPA: 3.89/4), Jun. 2012 • Final Year Project: Car speed measurements using passive RFID tags • Advisor: Chadi Abou Rjeily, Ph.D. Research Research Assistant Sep. 2014 – present EXPERIENCE Electrical & Computer Engineering Dep., University of Western Ontario Supervisors: Abdallah Shami, Ph.D and Hanan Lutfiyya, Ph.D Research Assistant Sep. 2012 – Jun. 2014 Computer, Electrical and Mathematical Science and Engineering Div., King Abdullah University of Science and Technology Supervisors: Mohamed-Slim Alouini, Ph.D and Tareq Al-Naffouri, Ph.D Teaching Winter 2018 Teaching Assistant EXPERIENCE ECE 9309 - Machine Learning Instructor: Abdallah Shami, Ph.D Electrical & Computer Eng. Dep., University of Western Ontario Teaching Assistant Winter 2017 ECE 3370 - Communication Electronics I Instructor: Sirguei Primak, Ph.D Electrical & Computer Eng. Dep., University of Western Ontario Teaching Assistant Winter 2016 ECE 2241 - Electrical Laboratory II

Instructor: Lyudmil Marinov, PEng Electrical & Computer Eng. Dep., University of Western Ontario

Fall 2015, 2016, & 2017

Teaching Assistant

ECE 2240 - Electrical Laboratory I Instructor: Lyudmil Marinov, PEng Electrical & Computer Eng. Dep., University of Western Ontario

Teaching Assistant

Winter 2015

ECE 2208 - Electrical Measurement and Instrumentation Instructor: Lyndon Brown, Ph.D

Electrical & Computer Eng. Dep., University of Western Ontario

Teaching Assistant

Fall 2014

ECE 3374 - Introduction to Electronics for Mechanical Engineering Instructor: Vahid Sotoudehnejad, Ph.D Electrical & Computer Eng. Dep., University of Western Ontario

REFEREED CONFERENCE PUBLICATIONS

- K. Alhazmi, A. Moubayed, and A. Shami, "'Green Distributed Cloud Services Provisioning in SDN-enabled Cloud Environment".
 Accepted in 14th IEEE International Wireless Communications and Mobile Computing Conference (IWCMC'18), Limassol, Cyprus 2018.
- 2. **A. Moubayed**, M. Injadat, A. Shami, and H. Lutfiyya, "Relationship between Student Engagement and Performance in e-Learning Environment Using Association Rules", *IEEE World Engineering Education Conference (EDUNINE'18)*, Buenos Aires, Argentina, 2018.
- 3. K. Hammad, A. Moubayed, S. Primak, and A. Shami, "Investigating the Energy-Efficiency/Delay Jitter Trade-off for VoLTE in LTE Downlink", *IEEE International Symposium on Personal, Indoor and Mobile Radio Communications (PIMRC'17)*, Montreal, QC, Canada, 2017.
- 4. **A. Moubayed**, A. Shami, and H. Lutfiyya, "Power-Aware Wireless Virtualized Resource Allocation with D2D Communication Underlaying LTE Network", 2016 IEEE Global Communications Conference (GLOBECOM'16), Washington, DC, USA, 2016.
- 5. M. Hussein, **A. Moubayed**, S. Primak, and A. Shami, "Virtualized allocation performance analysis in 5G two-tier cellular networks", 2016 IEEE Canadian Conference on Electrical and Computer Engineering (CCECE'16), Vancouver, BC, Canada, 2016.
- E. Aqeeli, A. Moubayed, and A. Shami, "Towards Intelligent LTE Mobility Management through MME Pooling",
 2015 IEEE Global Communications Conference (GLOBECOM'15), San Diego, CA, USA, 2015.
- M. Hussein, A. Moubayed, S. Primak, and A. Shami, "On efficient power allocation modeling in virtualized uplink 3GPP-LTE systems", 2015 IEEE 11th International Conference on Wireless and Mobile Computing, Networking and Communications (WiMob'15), Abu Dhabi, UAE, 2015.

REFEREED JOURNAL PUBLICATIONS

- 1. E. Aqeeli, **A. Moubayed**, and A. Shami, "Power-Aware Optimized RRH to BBU Allocation in C-RAN", in *IEEE Transactions on Wireless Communications*, 2017.
- 2. E. Aqeeli, **A. Moubayed**, and A. Shami, "Dynamic SON-enabled Mobility Management in LTE Networks", in *IEEE Transactions on Mobile Computing*, 2017.

- 3. K. Hammad, A. Moubayed, A. Shami, and S. Primak, "QoS-Aware Energy and Jitter-Efficient Downlink Predictive Scheduler for Heterogeneous Traffic LTE Networks", in *IEEE Transactions on Mobile Computing*, 2017.
- 4. K. Hammad, A. Moubayed, A. Shami, and S. Primak, "Analytical Approximation of Packet Delay Jitter in Simple Queues," in *IEEE Wireless Communications Letters*, vol. 5, no. 6, pp. 564-567, 2016.
- 5. M. Kalil, A. Moubayed, A. Shami, and A. Al-Dweik, "Efficient Low-Complexity Scheduler for Wireless Resource Virtualization," in *IEEE Wireless Communications Letters*, vol. 5, no. 1, pp. 56-59, 2016.
- 6. **A. Moubayed**, A. Shami, and H. Lutfiyya, "Wireless Resource Virtualization With Device-to-Device Communication Underlaying LTE Network," in *IEEE Transactions on Broadcasting*, vol. 61, no. 4, pp. 734-740, 2015.

SUBMITTED PUBLICATIONS

- 1. **A. Moubayed**, M. Injadat, A. Shami, H. Lutfiyya, "DNS Typo-squatting Domain Detection: A Data Analytics & Machine Learning Based Approach", 2018. Submitted to 2018 IEEE Global Communications Conference (GLOBECOM'18).
- 2. **A. Moubayed**, A. Shami, and H. Lutfiyya, "Student Engagement Level in e-Learning Environment-Clustering Using K-means", 2018. Submitted to *IEEE Access*.
- 3. A. Moubayed, M. Injadat, A. Shami, H. Lutfiyya, A. Bou Nassif, "e-Learning: Challenges & Research Opportunities Using Machine Learning & Data Analytics", 2018.

Submitted to IEEE Access.

4. **A. Moubayed**, K. Hammad, A. Shami, and H. Lutfiyya, "Dynamic Spectrum Management Through Resource Virtualization with M2M Communications", 2018. Submitted to *IEEE Communications Magazine*.

Awards & Honors

University of Western Ontario

• Graduate Student Teaching Assistant (GSTA) Award	May 2017
Ontario Graduate Scholarship	May 2017
• Graduate Student Award for Excellence in Research	May 2016
• Outstanding Presentation in NSERC CREATE Symposium	Jun. 2015
• Western Graduate Research Scholarship	Sep. 2014

King Abdullah University of Science and Technology

• Fellowship Award Aug. 2012

Lebanese American University

• Distinction List Sep. 2007 – Jun. 2012

Presentations

University of Western Ontario

• ECE Department Graduate Research Symposium	May 2017
• NSERC CREATE Symposium in Comm. Sec., Privacy & Cyberethics	Aug. 2016
• ECE Department Graduate Research Symposium	May 2015

Conferences

• IEEE World Engineering Education Conference	Mar. 208
• 59 th IEEE Global Communications Conference	Dec. 2016

References

Abdallah Shami

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