

# IBRAHIM BEN MUSTAFA

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## EDUCATION

**Ph.D in Computer Science**, Old Dominion University, Norfolk, VA, Expected May 2018.

**Thesis Titled:** FlexStream: SDN-BASED Framework for Programmable and Flexible Adaptive Video Streaming.

**M.S. in Computer Science,**

New Mexico State University, Las Cruces, NM, May 2011.

**B.Sc in Computer Science,**

University of Tripoli, formerly known as Al Fatah University, Tripoli, Libya, Jan 2001.

## ACADEMIC HONORS

- Dominion Scholar Fellowship, Old Dominion University Aug 2017 – May 2018
- Dominion Scholar Fellowship, Old Dominion University Aug 2016 – July 2017
- Graduate Teacher Assistant Instructor Institute Certificate, college of Science, ODU Spring 2014
- Graduate Scholarship Award: Libyan Ministry of Higher Education and Scientific Research (MOHESR) Feb 2012 - July 2017
- Graduate Scholarship Award: University of Tripoli and Libyan Ministry of Higher Education and Scientific Research (MOHESR) Mar 2008 - May 2011

## EXPERIENCE

- Graduate Research Assistance, Old Dominion University Fall 2016 – Present
- Graduate Teaching Assistance, Old Dominion University Spring 2016 – Spring 2017
  - Courses taught:
    - CS776/876- Architectural Support for Cloud Computing.
    - CS665- Computer Architecture.
    - CS471- Operating Systems.
    - CS464- Networked Systems Security.
    - CS455/555- Introduction to Networks and communications.
- **Graduate Teaching Assistance, New Mexico State University** Fall 2011 – Spring 2012
  - CS581- Advanced Software Engineering.

- CS273- Machine Programming and Organization.
- **Computer Science Tutor, New Mexico State University, Las Cruces, NM**
  - CS110- Computer Literacy.
- Graduate Teaching Assistance and Lab Instructor, Tripoli University**      Spring 2003 – Fall 2007
  - CS432 Database Management Systems.
  - CS211 Machine language.
  - CS111- Programming with FORTRAN.
  - CS100- Computer Literacy.

## RESEARCH COLLABORATION

- Collaborative Project with AT&T Research Labs, Bedminster, NJ.      Spring 2016 – Present
- Project Titled: Extending SDN to Cellular Network End Device.
- Project Summary: Extending software defined network paradigm to mobile end-devices with the goal of improving mobile applications and network performance, reducing dependency on wireless infrastructure, promoting user's privacy, and reducing cost overheads for network providers.
- Research Progress: Finished with system implementation and currently extending the project and integrating it with an AT&T open source project.
- Role in the Project: Sharing research idea, analyzing and evaluating the performance of various mobile applications, and designing and implementing the proposed framework.

## PUBLICATIONS AND PAPERS

- **Ibrahim Ben Mustafa**, Emir Halepovic, and Tamer Nadeem. "FlexStream:Towards Edge-Based SDN Architecture for Programmable and Flexible Adaptive Video Streaming." *IEEE International Conference on Computing (INFOCOM), 2018.* (Submitted Paper)
- **Ibrahim Ben Mustafa**, Mostafa Uddin, and Tamer Nadeem. "Understanding the intermittent traffic pattern of HTTP video streaming over wireless networks." *Modeling and Optimization in Mobile, Ad Hoc, and Wireless Networks (WiOpt), 2016 14th International Symposium on. IEEE, 2016.*
- Uddin, Mostafa, **Ibrahim Ben Mustafa**, and Tamer Nadeem. "EdgeEye: Fine Grained Traffic Visibility at Wireless Network Edge." *Edge Computing (SEC), IEEE/ACM Symposium on. IEEE, 2016.*
- **Ibrahim Ben Mustafa**, Uddin Mostafa, and Tamer Nadeem, Extending SDN to Cellular Network End Devices". *Demo at AT&T Research Academic Summit 2016.*
- **Ibrahim Ben Mustafa**, and Tamer Nadeem. "Dynamic traffic shaping technique for http adaptive video streaming using software defined networks." *Sensing, Communication, and Networking (SECON), 2015 12th Annual IEEE International Conference on. IEEE, 2015.*