Muslum Ozgur Ozmen

Education

Period	**September 2016 — Present**
Degree	**Ph.D. in Computer Science**
Advisor	**Dr. Attila Altay Yavuz**
University	**Oregon State University** Corvallis, OR, USA

Period	**September 2016 — June 2018**
Degree	**Master of Science in Computer Science**
CGPA	**3.96/4.00**
Advisor	**Dr. Attila Altay Yavuz**
Thesis	**Low-Cost Standard Public Key Cryptography Services for Wireless IoT Systems**
University	**Oregon State University** Corvallis, OR, USA

Period	**September 2012 — June 2016**
Degree	**Bachelor of Science in Electrical and Electronics Engineering**
CGPA	**3.49/4.00**
University	**Bilkent University** Ankara, Turkey

Research Interests

My primary interests include light-weight cryptography for IoT systems (drones and medical devices), privacy enhancing technologies (dynamic symmetric and public key based searchable encryption) and post-quantum cryptography.

Work Experience

Period	**January 2018 — March 2018**
Employer	**Oregon State University** Corvallis, OR, USA
Job Title	**Teaching Assistant**

I served as a TA for the course CS496 - Mobile and Cloud Software Development. My primary duties included grading and holding office hours.

Period	**September 2017 — December 2017**
Employer	**Oregon State University** Corvallis, OR, USA
Job Title	**Teaching Assistant**

I served as a TA for the courses CS261 - Data Structures and CS/ECE578 - Cybersecurity. My primary duties for CS261 included grading, holding office hours and recitations where I solved example questions and held quizzes. My primary duties for CS/ECE578 included preparing exam/homework questions, grading and holding office hours.

Period	**January 2017 — March 2017**
Employer	**Oregon State University** Corvallis, OR, USA
Job Title	**Teaching Assistant**

I served as a TA for the course CS492 - Mobile Software Development. My primary duties included grading and holding office hours.

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https://github.com/ozgurozmen

Period	**September 2016 — Present**	
Employer	**Oregon State University**	Corvallis, OR, USA
Job Title	**Research Assistant**	

Publications

Peer-reviewed conference publications:

C1 Rouzbeh Behnia, Attila A. Yavuz and **Muslum Ozgur Ozmen**. *High-Speed High-Security Public Key Encryption with Keyword Search.* In DBSEC: IFIP Annual Conference on Data and Applications Security and Privacy 2017.

C2 **Muslum Ozgur Ozmen** and Attila A. Yavuz. *Low-Cost Standard Public Key Cryptography Services for Wireless IoT Systems.* In IoTS&P: Workshop on Internet of Things Security and Privacy 2017 (Affiliated with ACM CCS).

C3 **Muslum Ozgur Ozmen**, Thang Hoang and Attila A. Yavuz. *Forward-Private Dynamic Searchable Symmetric Encryption with Efficient Search.* In IEEE ICC: International Conference on Communications 2018.

C4 **Muslum Ozgur Ozmen** and Attila A. Yavuz. *Compact Energy and Delay-Aware Authentication.* In IEEE CNS: IEEE Conference on Communications and Network Security 2018.

C5 **Muslum Ozgur Ozmen** and Attila A. Yavuz. *Dronecrypt-An Ultra-Low Energy Cryptographic Framework for Small Aerial Drones.* To Appear In IEEE MILCOM: Military Communications Conference 2018.

C6 Rouzbeh Behnia, **Muslum Ozgur Ozmen**, Attila A. Yavuz and Mike Rosulek. *TACHYON: Fast Signatures from Compact Knapsack.* To Appear In ACM CCS: Conference on Computer and Communications Security 2018.

Peer-reviewed journal publications:

J1 Rouzbeh Behnia, **Muslum Ozgur Ozmen** and Attila A. Yavuz. *Lattice-Based Public Key Encryption with Keyword Search.* Under Review In IEEE TDSC: IEEE Transactions on Dependable and Secure Computing.

J2 Thang Hoang, **Muslum Ozgur Ozmen**, Yeongjin Jang and Attila A. Yavuz. *Hardware-Supported ORAM in Effect: Practical Oblivious Search and Update on Very Large Dataset.* To Appear In PoPETS: Proceedings on Privacy Enhancing Technologies.

Patents

P1 **Muslum Ozgur Ozmen**, Hoang Thang, and Attila A. Yavuz *Forward-Private Dynamic Searchable Symmetric Encryption with Efficient Search*, OSU-17-55, Provisional Application No: 62/572,339, Submitted: October 10, 2017

Presentations

Conference and Workshop Talks:

T1 *Low-Cost Standard Public Key Cryptography Services for Wireless IoT Systems.* Workshop on Internet of Things Security and Privacy. Dallas, TX, USA, November 2017.

Invited Talks:

I1 *Lightweight, Delay-Aware and Scalable Cryptographic Services for Smart-Grid Systems.* Cyber Resilient Energy Delivery Consortium (CREDC) Pacific Northwest Industry Workshop. Richland, WA, USA, November 2017.

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Services

External Reviewer in:

E1 *33th Annual Computer Security Applications Conference (ACSAC 2017)* Orlando, FL, USA, December 2017.

Awards and Honors

- Sharpeye - Acoustic Localization of Gunshot, funded by The Scientific and Technological Research Council of Turkey, 2016.
- Turkish Educational Foundation, Outstanding Success Scholarship (awarded to 50 students nationwide), September 2013 — June 2016.
- Full Scholarship from Bilkent University, September 2012 — June 2016.
- 467th out of 1,805,433 students in Turkish National University Entrance Exam, June, 2012.

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