

# Yousef Abu Hour



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🏠 27 March 1991, Baithlahem

## 🏛️ Education

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- Nov 2018 – Feb 2019 **Cryptography Certificate, Cryptography training course**  
Military University of Technology (**WAT**), Poland  
**Ranked** : Very Good
- Sep 2014 – May 2016 **MSc. of Mathematics and Statistics**, Applied mathematics  
Jordan University of Science and Technology (**JUST**), Jordan  
**Ranked** : Excellent (95.7/100)
- Sep 2009 – Jan 2013 **BSc. of mathematics**,  
Al-Hashemite University (**HU**), Jordan  
**Ranked** : Excellent (3.84/4)

## 🗣️ Languages

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- **English** (professional working proficiency : read, written and spoken)
  - **Arabic** (native speaker)

## 🕒 Experiences

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- May 2017 - Current | **Jordan Design and Development Bureau (JODDB) | National Encryption Center**  
Senior Mathematician,
  - Trainer : Cryptography, Mathematics and OSINT,
  - Scientific Researcher : Researching fields are Cyber security, Cryptography and Applied Mathematics ,
  - Build necessary tools. Test crypto-sytems. and Validate proposed protocols.
- Aug 2013 - May 2017 | **Mathnasium | Math Learning Center**  
**Ministry Of Education**,  
Mathematics teacher | Teach national and international programmes such that IGCSE, SAT and IB.

## 🏆 Honors & Awards

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- > Distinguished Employee Award, in the IT projects, at year **2021**.
  - > Poland Cryptography Course | Ranked : **1<sup>st</sup>** among four trainees.
  - > Dean's Honor List 4 times | Ranked **1<sup>st</sup>** among a batch of 13 students (at JUST university).
  - > University Honor List 2 times and Dean's Honor List **6** times | Ranked **1<sup>st</sup>** among a batch of 78 students (at Al-Hashemite university).

## 📖 Publications

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- > Ahmad, Ashraf, **Yousef AbuHour**, Remah Younisse, Yasmeen Alslman, Eman Alnagi, and Qasem Abu Al-Haija. "MID-Crypt : A Cryptographic Algorithm for Advanced Medical Images Protection." *Journal of Sensor and Actuator Networks* 11, no. 2 (2022) : 24.
  - > Ahmed, A., **AbuHour, Y.**, and El-Hassan, A. (2022). A novel covid-19 prediction model with optimal control rates. *Intelligent Automation and Soft Computing*, 979-990.
  - > Ahmad, A., **AbuHour, Y.** and Alghanim, F., 2021. A Novel Model for Distributed Denial of Service Attack Analysis and Interactivity. *Symmetry*, 13(12), p.2443.
  - > Ahmad, A., Hababeh, M., Abu-Hantash, A., **AbuHour, Y.** and Musleh, H., 2020. Reduce Effect of Dependent Malicious Sensor Nodes in WSNs using Pairs Counting and Fake Packets. *International Journal of Computers, Communications and Control*, 15(5).
  - > Ahmad, A., **Abu-Hour, Y.** and DarAssi, M.H., 2020. Effects of computer networks' viruses under the of removable devices. *International Journal of Dynamical Systems and Differential Equations*, 10(3), pp.233-248.
  - > Al-Towaiq, M.H. and **Hour, Y.S.A.**, 2020. An Efficient Approach of the Fractional Lagrange Interpolation. *Journal of Engineering and Applied Sciences*, 15(3), pp.815-818.

- > DarAssi, M.H. and **Hour, Y.A.**, 2020. Residual power series technique for solving Fokker-Planck equation. *Italian Journal of Pure and Applied Mathematics*, (319–332).
- > Ahmad, A., **Hour, Y.S.A.** and DarAssi, M.H., 2019. Advance system and model to predict malicious files prorogation inside computer network. *IET Networks*, 8(1), pp.38-47.
- > Al-Towaiq, M. H., and **Abu Hour, Y. S.** (2017). Two improved classes of Broyden's methods for solving nonlinear systems of equations. *JOURNAL OF MATHEMATICS AND COMPUTER SCIENCE-JMCS*, 17(1), 22-31.. Available from : [https://www.researchgate.net/publication/307864741\\_Two\\_improved\\_classes\\_of\\_Broyden](https://www.researchgate.net/publication/307864741_Two_improved_classes_of_Broyden)
- > Al-Towaiq, M. H., and **Hour, Y. A.** (2016). Two Improved Methods Based On Broyden's Newton Methods For The Solution Of Nonlinear Systems Of Equations. *Journal of Engineering and Applied Sciences*, 100(11), 2344-2348. And discussed the paper at APPEMSE 2016, 26-29, Malisya.

## Research Interests

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- > Cryptography : Homomorphic Encryption, Lattices, LWE (learning with errors), Identity Based Encryption, . . .
- > Cyber Security : Privacy-preserving of medical information (Accepted article in *Journal of Sensor and Actuator Networks*).
- > *Open Source Intelligence (OSINT) : Data Scrapping, Media Investigation, extract media meta-data. Implement intelligence tools such : DeepFake(face-swap), deepfake detection, Face-search (Face-recognition), Anti-FaceRecognition.*

## Computer Skills

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**Programming Languages :** Python, MATLAB and  $\text{\LaTeX}$ .

**Operating Systems :** Ubuntu and Windows.

## Activities

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- > Participate and Contribute in **ROOT-ME**, my profile <https://www.root-me.org/Yousef-355875?lang=en>. Solve 55 challenges most of them in Crypt-analysis. Contribute new solutions for three challanges : RSA - Corrupted key 2, AES128 - CTR, and RSA - Lee cooper.
- > (Unofficial) Assistant lecturer in Princess Sumaya University for Technology (PSUT), *Data Encryption Course* (For PhD students)
- > (Unofficial) Attended course in Introduction to Hardware Security : Algorithmic and Design Aspects for PhD students in (PSUT), Dec 2017.
- > Participated in monitoring parliamentary elections 2016.
- > Participated in the monitoring of high school examinations in 2013, 2014, 2015 and 2016.