

# Curriculum Vitae

Houda CHIHI

PhD in Telecommunications.

Innov'COM Lab at Sup'Com.

Eugen Ionescu Postdoc Fellow 2021

Techwomen Fellow 2019

Internship at Qualcomm Californie

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## ACADEMIC UNIVERSITY CURRICULUM

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**2016** : PhD in Telecommunications. Host laboratory: INNOV'COM at the Higher School of Communications of Tunis (SUP'COM), National School of Engineers of Tunis (ENIT).

**2009** : Master in Telecommunications at the National School of Engineers of Tunis (ENIT).

**2007** : Bachelor in Electronic and Instrumentation at the Higher School of Sciences and Techniques of Tunis (ESSTT).

**2004** : Bachelor in Telecommunications at the Higher Institute of Technological Studies in Communications of Tunis (ISET'Com).

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## OBTAINED DIPLOMAS

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- **PhD**

- ✓ Specialty : Telecommunications.
- ✓ Date : Juin 2016.
- ✓ Mention : very Honorable.
- ✓ Affiliation : INNOV'COM at the Higher School of Communications of Tunis (SUP'COM).

- **Master**

- ✓ Specialty : Telecommunications.

- ✓ Date : Juin 2009.
- ✓ Mention : very Honorable.
- ✓ Affiliation : National School of Engineers of Tunis (ENIT).

- **Bachelor**

- ✓ Specialty : Electronic and Instrumentation.
- ✓ Date : June 2007.
- ✓ Affiliation: Higher School of Sciences and Techniques of Tunis (ESSTT).

- **Bachelor**

- ✓ Specialty : Telecommunication.
- ✓ Date : February 2004.
- ✓ Affiliation: Higher Institute of Technological Studies in Communications of Tunis (ISET'Com).

- **Baccalaureate**

- ✓ Session : June 2001.
- ✓ Specialty : Science.
- ✓ Affiliation : Secondary High School of Siliana.

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## PROFESSIONAL EXPERIENCE

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- **2005–2023** : Chief Engineer at Tunisie Telecom.

**Expertise** : KPI & Reporting (fixe/data/mobile), exploitation and maintenance of 2G/3G/4G networks (Huawei). Definition of operators into HSS (Ericsson).Provisionning (EDA / Ericsson).

- **November –December 2022** : Adjunct professor at Time High School private university of Tunisia (**TIME**).

**Expertise** : Security towards networks.

- **January-June 2021** : Adjunct professor at **ISI University**.

**Expertise** : CCNA.

- **September-December 2020** : Adjunct professor at **ISI University**.

**Expertise** : VoIP.

- **February- June 2019** : Adjunct professor at **ISAMM University**.  
**Expertise** : Multimedia.
  
- **September-December 2019** : Adjunct professor at **Sup'COM University**.  
**Expertise** : Electronic of transmission.
  
- **January-June 2019** : Adjunct professor at **ESPRIT University**.  
**Expertise** : Electronic
  
- **September-December 2016** : Adjunct professor at **Iset'Com University**.  
▪ **March-June 2017** : Adjunct professor at **Iset'Com University**.  
**Expertise** : Analog Electronic.
  
- **September-December 2018** : Adjunct professor at **Sup'COM University**.  
**Expertise** : Electronic of transmission.

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## COMPETENCIES AND PROFESSIONAL QUALIFICATIONS

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- Simulation tools : MATLAB.
  
- \* **Technical skills**
  - ✓ Telecommunications networks
  - ✓ Vehicular communication (V2X / LTE-V)
  - ✓ Mobile Networks : GSM, UMTS, HSPA, 4G / 5G.
  - ✓ Wireless communication.
  - ✓ Performances Evaluation of networks, QoS, planification..
  - ✓ NR V2X / C-V2X
  - ✓ Signal Processing
  - ✓ Green communication

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## PUBLICATIONS

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- **Journals**

- 1 Houda CHIHI, Ghazanfar Ali Safdar, Mohammed Bahja, "Improved Spectral Efficiency and connectivity in RSMA V2X Systems," **EAI Endorsed Transactions on Energy web**, Vol 9, No 6. 2022.

- 2 **H. CHIH**, Ridha BOUALLEGUE and Ahmed ASHORA," On Power Allocation For Congestion Control Into NR 5G V2V," International Journal of Digital Information and Wireless Communications (IJDIWC), **Vol 11, No 2. 2021**.
- 3 **H.CHIH** and R.BOUALLEGUE," stackelberg game exploitation for power minimization over lte-v mode 4", **Information and Telecommunication sciences Journal 2020**.
- 4 **H. CHIH**," Energy efficiency performance evaluation for multiband-OFDM UWB cross-layer design", **IJUWBCS 3(4): 219-224 (2018)**.
- 5 **H. CHIH**, R. Zaeem and R. BOUALLEGUE," Energy expenditure per bit minimization into MB-OFDM UWB systems," **IJDIWC, Vol.7,No. 1, 2017**.
- 6 R.M Zaeem, M. Naeimi, S.T. Arasteh, and **H. CHIH** ," Optimal thresholds for discrete power levels using adaptive modulation in presence of imperfect channel state information," **International Journal of Advanced Computer Research 2017**.
- 7 **H. CHIH**, R. BOUALLEGUE," Energy Efficiency Investigation for the MB-OFDM UWB Cross-Layer Design".**Wireless Personal Communication 2017**.
- 8 **H. CHIH**, "Energy efficiency performance evaluation for multiband-OFDM UWB cross-layer design," **Int. J. Ultra Wideband Communications and Systems, Vol. X, No. Y, 2017**.
- 9 **H. CHIH**, R. BOUALLEGUE," Energy Expenditure per Bit Minimization into MB-OFDM UWB Systems," **International Journal of Digital Information and Wireless Communications (IJDIWC), Vol 7, Issue 1, 2017**.
- 10 R. M. ZAEEM, M. NAEIMI, S. T. ARASTEH and **H. CHIH**," Optimal thresholds for discrete power levels using adaptive modulation in presence of imperfect channel state information," **International Journal of Advanced Computer Research (IJACR), Vol 7, Issue 31, July 2017**.

### • National Conferences

- 11 H. CHIH, R. BOUALLEGUE and R.DE LACERDA " ChDMA Technique based MB-UWB System over the IEEE 802.15.3a Proposal ". IEEE International Conference on Multimedia Computing and Systems (**IEEE ICMCS 2014**).

### • International Conferences

- 1 **H. CHIH**, R. BOUALLEGUE and R.DE LACERDA, " **Channel Division Multiple Access Analysis into MBOFDM UWB High Data Rate System** ". IEEE International Conference on Wireless Communications and Mobile Computing (**IEEE-IWCMC 2014**), Cyprus, Août 2014.
- 2 **H. CHIH**, A. HAMINI and R. BOUALLEGUE " **Energy consumption performance results Of multiband OFDM UWB systems** ". IEEE International Conference on Wireless Communications and Mobile Computing (**IEEE-IWCMC 2015**), Croitie, Août 2015.
- 3 **H. CHIH**, R.DE LACERDA and R. BOUALLEGUE, " **Adaptive Modulation and Coding Scheme for MBOFDM UWB Systems** ". IEEE International Conference on Software,

Telecommunications and Computer Networks (**IEEE SOFTCOM 2015**) Croitie, Septembre 2015.

- 4 **H. CHIHI, R.ZAEEM and R. BOUALLEGUE, " Energy Minimization by Selecting Appropriate Modulation and Coding Scheme for MB-OFDM ". IEEE International Conference on Advanced Information Networking and Applications (**IEEE AINA 2016**), AINA, Crans Montana 2016.**
- 5 **H. CHIHI, R. ZITOUNI, R. BOUALLEGUE and A. R. CHERIF," LATENCY AWARE INTO LTE-V2X MODE 4 SYSTEM," IEEE SITIS 2018 : The 14th International Conference on SIGNAL IMAGE TECHNOLOGY & INTERNET BASED SYSTEMS , Las Palmas de Gran Canaria, Spain , 2018.**
- 6 **H. CHIHI, R. ZITOUNI and R. BOUALLEGUE," ENERGY EFFICIENCY AND LATENCY INVESTIGATION INTO V2V COMMUNICATION," 9th International Conference on Communication, Security and Optimization of Decision Support System (**IC-CSOD 2018**) , Mumbai, India , 2018.**
- 7 **H. CHIHI, Rafik ZITOUNI, Ridha BOUALLEGUE, Amar RAMDANE-CHERIF:"Latency Aware Into LTE-V2X Mode 4 System." SITIS 2018: 569-573, Spain,2019.**

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## RESEARCH TRAINING AND CERTIFICATS

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- **February 2021:** WomenTech Mentor ,
- **From 15 September To 14 December 2021 :** Eugen Ionescu postdoctoral internship Scholarship managed by AUF : visiting research at Politechnica University (UPB) of Bucharest (Transport Faculty).
- **From 1 to 14 December :** visiting researcher at Orange Lab at polytechnic university of Bucharest (UPB).
- **January 2019 :** TOEIC certification.
- **From 29 September To 3 November 2019 :** Techwomen Fellow 2019.
- **From 5 October To 29 October 2019 :** Internship at Qualcomm Californie.
- **From 20 Mars to 25 April 2018 :** Postdoc Internship, ECE Paris.
- **From 30 October 2017-6 January 2018:** Certificate course in advanced mobile communication technologies, UTL, India.
- **From 5 to 27 January 2015 :** Research internship, CentraleSupélec, Paris

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## PROFESSIONAL TRAINING & SCIENTIFIC ACTIVITIES

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- Member of scientific committee , conference ICEAAT **2023**.
- Reviewer at Network and Communication Technologies Journal **2023**.
- TPC Member at GLOBECOM conference; symposium : "communication QOS, reliability and modeling; **2023**.

- Participation into 2éme Edition conference Women in Data science WIDS summit organized at Tunis **2023**.
- Participation into Regional IPv6 Summit, 9 May **2023**, Four Seasons Hotel-Tunisia.
- Participation as global mentor at the African Women Fellowship program **2023**.
- Member of scientific committee of First International Conference on Electrical Engineering and advanced Technologies : ICEEAT **2022**.
- International Program Committee member of the E-Palli International Conferences held at Impiana KLCC, Kuala Lumpur, Malaysia **2022**.
- Reviewer of the project with the title : "Strip-link MIMO ARchitecture for Scalable deployment of Time-sensitive and Reliable networks in Indoor Professional," **2022**.
- Committee Member of IDEA2k22 (4th International Conference on Data, Engineering and Applications (IDEA-2k22)) **2022**.
- Member of International program committee of APICEE **2022**.
- Member of the organizing committee of ICTIST'22 May **2022**.
- Participation into the workshop organized by Elsevier about : " How to find an original research topic with an added value," 29 May **2022**.
- Participation into the workshop organized by Elsevier about : " How to make my research project visible internationally," 12 March **2022**.
- Participation into the training of Tunisie Telecom about : " Internet of Things IoT: Architecture - Applications - Technologies from 16/05/**2022** to 18/05/**2022** at Delta Center Rue des Entrepreneurs, Imm. DELTA CENTER, Charguia II, BP 210, 1080 Tunis Cedex.)
- Participation into conference Women in Data science WIDS summit organized at Tunis **2022**.
- IIOE Certificate of Competency - IIOE Training Series - Big Data General Level, UNESCO-ICHEI, January **2021**.
- Badge of competence in Pedagogy and technology, UVT Tunisia, 2019.
- Workshop Chair at EAI CICOM **2021** conference.
- Editorial board member of «Pakistan Journal of Engineering and Technology" Journal **2021**.
- Participation into webishop about : "Build your Linkedin Profile to get Job in Europe," 2 July **2020**.
- Participation into the training of « SDN, NFV, cloud computing et architecture datacenter : Overview», from 29/01 au 31/01/**2019** at Smart Future Tunis.

- Attended the meeting of to the African Union Cybersecurity Expert Group (AUCSEG) hold from 10 - 12 December **2019** in Addis Ababa, Ethiopia.
- Attended the training of to the First North African Internet Governance hold from 22 - 24 December **2019** in Nouakchatt, Mauritanie.
- Attended the training of "Self Management", DAAD , September **2018**.
- CCNA certified, September **2017**.
- Participation at the research day of Sup'COM, Hammamet, Tunisia, September **2016**.
- Participation at International Conference on Advanced Information Networking and Applications (AINA 2016), Crans Montana, Mars **2016**.
- WCDMA RNC Dimensioning Training, CifodeCom **2015**.
- WCDMA RAN14.0 NodeB Training, CifodeCom, **2015**.
- WCDMA RAN14.0 RNC Operation Training, CifodeCom, **2015**.
- WCDMA RAN14.0 RNC Configuration Training, CifodeCom, **2015**.
- WCDMA RAN14.0 RAN Troubleshooting Training, CifodeCom, **2015**.
- UMTS RAN17.1 BSC6910 Operation and maintenance Training, CifodeCom, **2015**.
- ISSC-5G'2015 : International School on 5G , Hammamet, Tunisia, **2015**.
- GSM BSS (BSC6000) Operation level 3 Training, CifodeCom **2014**.
- WCDMA NodeB Maintenance Training, CifodeCom **2014**.
- GSM BSS (BSC 6000)Operation level 3 Training, CifodeCom **2014**.
- Participation at IEEE International Conference on Wireless Communications and Mobile Computing (IWCMC 2014), Cyprus, August **2014**.
- Participation at International Conference on Information Processing and Wireless Systems (Ip-Wis-2013), Djerba, Tunisia **2013**.
- Participation EP-CEM'2013, spring school of Magnetism Hammamet, Tunisia, **2013**.

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### Participation in Events

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- Participation as a speaker into Connectivity Day ,"Overview About 5G network slicing," Mext B2B Metaverse platform **2023**.
- Participation as a speaker ; " Building a successful career in Tech," at African Seasoned Speakers Network, **2023**.
- Participation as a panelist into web conference «Ransomware ou Rançongiciel, vos données prises en otage !» One Africa Forums **2023**.

- Participation as penalist at African Education Forum, " Exploiting new technologies for Education, " May **2023**.
- Participation at 2023 **FIRST & AfricaCERT** Regional Symposium as a virtual speaker where my talk is about AI and Cybersecurity, March **2023**.
- Participation of "Alumni Voices" organized by Tunisian American Alumni Network March **2023**.
- Participation as speaker into international rights of women in Togo , " **Women and Technology**," 12 March **2023**.
- Invited Podcaster at **Women who code**, January **2023**.
- Invited Speaker at **African Seasoned Speakers Network** February **2023**.
- Participation at Internet governance Forum **IGF** held at Ethiopia from 28 November to 2 December **2022**.
- Participation as speaker at **CyFy** Conference about "Boon, Bane or Bust: Can Our Planet Survive Tech? held in New Delhi from 26 to 28 October **2022**.
- Participation into Africa Internet Governance Forum (**AFIGF 2022**) held in Lilongwe Malawie from 19 to 21 July **2022**.
- Participation through an intervention into the inaugural virtual symposium of MENA Business Architecture guided Strategy Execution, 25 May **2022**.
- Invited Speaker , "5G Network Slicing " at Advanced Connectivity / 5G day organized by MUST (March 23 **2022**).
- Invited Speaker at IEEE WIE Oman section , " Tech Careers for Women" on March 27 **2022**.
- Invited Speaker at IEEE Mysore subsection, "Tips to boost your Research career " March 31 **2022**.
- Invited Speaker at IEEE Computer Science Chapter of Indonesia « Women in technology ». April **2021**.
- Invited Speaker at 5G Colloquium India , " Network slicing in 5G", July **2021**.

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### **Associations Membership**

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- Leader of African women cybersecurity working group at **Afroleadership**, 2022.
- Member of AfricanUnion cybersecurity expert group (**AUECG**), 2019.

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### Spoken Languages

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- \* **Arabic.**
- \* **French.**
- \* **English.**
- \* **Deutsch.**
- \* **Hindi.**

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### REFERENCES

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- **Charlie Martial NGOUNOU :**  
President , Afroleadership  
E-mail: [charlie@afroleadership.org](mailto:charlie@afroleadership.org)
  
- **ZOURE Moubarak**  
Cloud Architect , Devoteam,  
E-mail : [MoubarakZoure@gmail.com](mailto:MoubarakZoure@gmail.com)

