Curriculum Vitae

Huda Haikl Hussein AL-NAYYEF

University of Mustansiriyah – College of Science
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PERSONAL SUMMARY:

Huda AL-NAYYEF was born in May 1980 in Baghdad, Iraq. In 2004, she defended her M.Sc. thesis in computer science – Internet security from the University of Al-Nahrain, department of Computer Science, Iraq. Since Nov. 2005 – Dec. 2015, she became an assist. lecturer in the University of Mustansiriyah, Department of Computer science, Iraq. In December 2015, she defended her Ph.D. thesis in Artificial Intelligant – bioinformatics, from the University of Franche-Comté, Lab. Femto-ST (DISC Department of computer science), France. Her researches focuses on the domains of Artificial Intelligent, Bioinformatics, and Transposable elements within DNA sequences for bacterial genomes.

EDUCATION:

- **Ph.D. (2013-2015)**:

  Doctorate of Philosophy (Ph.D.) in Computer Science, specialty in Artificial Intelligance - Bioinformatics | University of Franche-Comté, France),
  Thesis title: "*Investigating the Impact of Insertion Sequences on the Evolution of Prokaryotic Genomes*".

- **M.Sc. (2001-2004)**:

  Master of Science (M.Sc.) in Information Technology and Computer Science. University of Al-Nahrain, Iraq. Major: Computer Science | Minor: Internet Security | GPA: 77.14%
  Thesis title: "*Development of a Dynamic Packet Filtering LAN Firewall System*".

- **B.Sc. (1999 – 2001):**

  Bachelor of Science (B.Sc.) in Computer Science. Al-Nahrain University. Department of Computer Science. Iraq | Rank: 3rd | GPA: 75.7%
  Project title: "*Computer Aided System: Learning Number System*".

ACADEMIC HONORS AND AWARDS:

- #1: I got a letter of acknowledgment awarded by the chairman of Al-Mustansiriya University in 2016.

- #2: I got a letter of acknowledgment awarded by the chairman of Al-Mustansiriya University in 2014.

- #3: I got a letter of acknowledgments awarded by the Dean of the College of Science/ Al-Mustansiriya University in 2010.

ACADEMIC /TEACHING EXPERIENCE:

- #1 Lecturer in College of Science / Atmosphere Depart Since October 2016 Until now
- #2: Lecturer in College of Science / Computer science Depart Since 2005 Until September 2016
- #3: lecturing Theoretical and Practical for some subjects for (1st class, 2nd class , and 4th class)

COURSES TAUGHT:

Undergraduate	Graduate
1. Applications Intelligent / Practical / 4th class 2. Data Structures / Practical / 2nd class 3. Computer Architecture/ Practical / 2nd class 4. IC3 / Theoretical and Practical / 1st class 5. Programming 2 /Theoretical and Practical / 2nd class	

PROFESSIONAL AFFILIATIONS:

- Member of the graduation projects exam committees for undergraduate students in the Department of Computer Science, University of Mustansiriyah.
- Member of copyrights committees to evaluate some scientific researches and master dissertations in the Department of Computer Science.
- Member of graduation project selection committes for undergraduate students in Atmosphere Deparment.
- Member in the Committee for Continuing Education in Atmosphere Department.

PUPLICATIONS:

- **National / International Journals and Conferences:**

1 Huda Al-Nayyef, Christophe Guyeux, and Jacques M. Bahi. ***Taenia* biomolecular phylogeny and the impact of mitochondrial genes on this latter**. In CIBCB 2015, IEEE Conference on Computational Intelligence in Bioinformatics and Computational Biology, Canada.

2 Huda Al-Nayyef, Christophe Guyeux, Marie Petitjean, Didier Hocquet, and Jacques Bahi. **Relation between Insertion Sequences and Genome Rearrangements in Pseudomonas aeruginosa**. In *IWBBIO 2015, 3rd Int. Work-Conf. on Bioinformatics and Biomedical Engineering, LNB, Lecture Notes in Bioinformatics*, Granada, Spain, pages

426--437, 2015, Springer LNB series.

3   Bassam Alkindy, <u>Huda Al-Nayyef,</u> Christophe Guyeux, Jean-François Couchot, Michel Salomon, and Jacques Bahi. **Improved Core Genes Prediction for Constructing well-supported Phylogenetic Trees in large sets of Plant Species**. In *IWBBIO 2015, 3rd Int. Work-Conf. on Bioinformatics and Biomedical Engineering*, *LNB*, *Lecture Notes in Bioinformatics*, Granada, Spain, pages 379--390, 2015, Springer.

4   <u>Huda Al-Nayyef</u>, Christophe Guyeux, and Jacques Bahi. **A pipeline for insertion sequence detection and study for bacterial genome**. Lecture notes in informatics (LNI), P-235:85-99, 2014..

5   <u>H. H. Hussein</u>, **Facial Features Extraction by Relative Geometrical Position**, Journal of the Al-Austath, University Of Baghdad, college of Ibn-Rushed. ISSN 0552-265X, No 134, 2010.

- **National & International Workshops**:

6   <u>Huda Al-Nayyef,</u> Christophe Guyeux, and Jacques Bahi. **Transposable Elements Investigation Tool applied to Prokaryotic Genomes**. In *SeqBio'14*, Montpellier, France, pages 9--11, November 2014.

7   Bassam Alkindy, <u>Huda Al-Nayyef</u>, Jean-François Couchot, Christophe Guyeux, Michel Salomon, and Jacques Bahi. "**Algorithmics on Genomic Evolution: Insertion Sequences and Core Genomes**". Workshop of Femto-ST, June 2014, Besancon, France. Note: Poster.

8   Bassam Alkindy, <u>Huda Al-Nayyef,</u> Panisa Treepong, Bashar Al-Nuaimi, Christophe Guyeux, Jean-François Couchot, Michel Salomon, and Jacques Bahi. "**Bioinformatics Approaches on Genomic Evolution in Femto-ST (Core Genome, Phylogenetic Analysis, Transposable Elements, and Ancestral Reconstruction***)*". Workshop of Femto-ST, June 2015, Besancon, France. Note: Poster.

9   <u>Huda Al-Nayyef,</u> "**Women in Science and Technology**", Al-Sadiq International Conference on Multidisciplinary in IT (AIC-MITC) - 2016, Imam Jafar Al-Sadiq University college, April 18-20 2016, Baghdad, Iraq.\

PROFFESSIONAL DEVELOPMENT

- **Certifications:**
    - Certificate of Microsoft Internet and Computer Core Certificate (IC3) 2005.
    - Certificate of Microsoft Internet and Computer Core Certificate (IC3) 2007.
    - Certificates for Methods of Teachings, University of Mustansiriyah, 2007.
    - Certificate for IT course, Al-Nahrain University, 2004.

- **Summer Schools & Academic Courses :**

  - Huda Al-Nayyef, Christophe Guyeux, and Jacques Bahi. (**Impact of Transposable Elements on the Genomic Inversions of Bacterial Species)**. SSBSS 2015, 2nd International Synthetic and Systems Biology Summer School, Taormina - Sicily, Italy, July 2015.

  - *"Strategy of Publications"*, University of Franche-Comté; 10 hours, Mar. - Apr. 2014, France.

  - Pierre-Yves BOURGEOIS, *"Tool for writing publications: LaTex (beginner, intermediate, and advance)"*, University of Franche-Comté , 9 hours, (18/4, 6/6, and 13/6) 2014, France.

  - Fabrice LAURI, *"Machine Learning – Theory and Algorithms"*, University of Franche-Comté, Belfort, 14 hours, 4-5 Feb. 2014, France.

  - François VERNOTTE, *"Exploitation statistics des mesures"*, University of Franche-Comté, 9 hours, (3, 10, and 17) Apr. 2014, France.

د. هدى هيكل حسين النايف

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ملخص تعريفي:

هدى النايف من مواليد 1980 من بغداد. في عام 2001، حصلت على شهادة البكالوريوس في علوم الحاسوب من كلية العلوم/جامعة النهرين. فى 2004 حصلت على شهادة ماجستير في علم الحاسوب – حماية شبكات من نفس الجامعة. في 23- 11-2005، شغلت منصب عضو هيئة تدريسية في الجامعة المستنصرية، كلية العلوم، قسم علوم الحاسوب، العراق. في ديسمبر 2015، نالت شهادة الدكتوراه بت قدير امتياز عن أطروحتها في اختصاص علوم الحاسوب - الذكاء الاصطناعي - المعلوماتية الحيوية(Bioinformatics) من جامعة فرانش كومتيه، كلية العلوم والت قنيات الد قي قة (قسم علوم الحاسوب)، فرنسا. في مارس 2016، أصبحت محاضرة بل قب علمي (مدرس) في قسم علوم الحاسوب. تتركز أبحاثها في مجالات الذكاء الاصطناعي، المعلوماتية الحيوية وتتضمن دراسة الجينومات واشرطة ال DNA وتتطبيق خوارزميات الحاسوب لحل مشاكل بايولوجيه.

الشهادات الدراسية:

- دكتوراه **(2015 – 2013)**

  شهادة دكتوراه في علوم الحاسوب، باختصاص الذكاء الاصطناعي – المعلوماتيه الحيويه (Bioinformatics)
  جامعة فرانش كومته، كلية العلوم والت قنيات الد قي قة، فرنسا | ت قدير: امتياز | تاريخ الحصول على الشهادة: 15-12-2015
  عنوان الاطروحة: "*Investigating the Impact of Insertion Sequences on the Evolution of Prokaryotic Genomes*".

- ماجستير**(2004 – 2001)**

  شهادة ماجستير في علوم الحاسوب، باختصاص حماية شبكات – (Firewall)
  جامعة النهرين/كلية العلوم بمعدل *77.14%*
  عنوان الاطروحة: "*Development of a Dynamic Packet Filtering LAN Firewall System*"

- بكالوريوس **(2001 – 1998)**

  شهادة بكالوريوس في علوم الحاسوب، كلية العلوم/جامعة النهرين ، العراق | ت قدير: جيد | تسلسله: الثالث
  معدل التخرج : 75.7%
  عنوان بحث التخرج: "*Computer Aided System: Learning Number System*"

الجوائز والتكريم الأكاديمي

- كتاب شكر من رئيس الجامعة المستنصرية في 2016.
- كتاب شكر من رئيس الجامعة المستنصرية في 2014.

- كتاب شكر من عميد كلية العلوم/الجامعة المستنصرية في 2010.

الخبرة الأكاديمية والتدريس:

تشرين الاول 2016 –الان : عضو هيئة تدريسية في قسم علوم الجو، كلية العلوم، الجامعة المستنصرية.
2005 – ايلول 2016 : عضو هيئة تدريسية في قسم علوم الحاسوب، كلية العلوم، الجامعة المستنصرية.
المشاركة في العديد من الورش العلمية العالمية بموضوع المعلوماتية الحيوية.
الاشراف على مشاريع التخرج لطلبة الدراسه الاولية.

المقررات الدراسية التي تم تدريسها:

الدراسات العليا	الدراسات الأولية
	- Applications Intelligent / Practical / 4th class - Data Structures / Practical / 2nd class - Computer Architecture/ Practical / 2nd class - IC3 / Theoretical and Practical / 1st class - Programming 2 /Theoretical and Practical / 2nd class

الأنتساب المهني او الجمعيات:

- عضو في لجان مناقشة مشاريع بحوث طلبة الدراسة الأولية في قسم علوم الحاسوب/ سابقا.
- عضو في لجنة الاستلال لبحوث الترقيات العلمية ورسالات الماجستير في قسم علوم الحاسوب/ سابقا.
- عضو في لجنة اختيار مشاريع بحوث طلبة الدراسة الأولية في قسم علوم الجو.
- عضو في لجنة التعليم المستمر في قسم علوم الجو.

المنشورات العلمية

- بحوث علمية منشورة في مجلات او مؤتمرات علمية عالمية او محلية

- <u>Huda Al-Nayyef</u>, Christophe Guyeux, and Jacques M. Bahi. *Taenia* **biomolecular phylogeny and the impact of mitochondrial genes on this latter**. In CIBCB 2015, IEEE Conference on Computational Intelligence in Bioinformatics and Computational Biology, Canada.

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- Bassam Alkindy, <u>Huda Al-Nayyef</u>, Christophe Guyeux, Jean-François Couchot, Michel Salomon, and Jacques Bahi. **Improved Core Genes Prediction for Constructing well-supported Phylogenetic Trees in large sets of Plant Species**. In *IWBBIO 2015, 3rd Int. Work-Conf. on Bioinformatics and Biomedical Engineering, LNB, Lecture Notes in Bioinformatics*, Granada, Spain, pages 379--390, 2015, Springer.

- <u>Huda Al-Nayyef</u>, Christophe Guyeux, and Jacques Bahi. **A pipeline for insertion sequence detection and study for bacterial genome**. Lecture notes in informatics (LNI), P-235:85-99, 2014.

- <u>H. H. Hussein</u>, **Facial Features Extraction by Relative Geometrical Position**, Journal of the Al-Austath, University Of Baghdad, college of Ibn-Rushed. ISSN 0552-265X, No 134, 2010.

6. ‏ورش عمل محلية وعالمية

- <u>Huda Al-Nayyef</u>, Christophe Guyeux, and Jacques Bahi. **Transposable Elements Investigation Tool applied to Prokaryotic Genomes**. In *SeqBio'14*, Montpellier, France, pages 9--11, November 2014.

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- Bassam Alkindy, <u>Huda Al-Nayyef</u>, Panisa Treepong, Bashar Al-Nuaimi, Christophe Guyeux, Jean-François Couchot, Michel Salomon, and Jacques Bahi. "**Bioinformatics Approaches on Genomic Evolution in Femto-ST (Core Genome, Phylogenetic Analysis, Transposable Elements, and Ancestral Reconstruction***)*". Workshop of Femto-ST, June 2015, Besancon, France. Note: Poster.

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‏تطوير المهارات:
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- ‏شهادات اخرى، دورات علمية

  - ‏شهادات اخرى
    - ‏شهادة دولية في رخصة قيادة الحاسوب من مايكروسوفت (2005) IC3.
    - ‏شهادة دولية في رخصة قيادة الحاسوب من مايكروسوفت (2007) IC3.
    - ‏شهادة في دورة تكنلوجيا المعلومات ، جامعة النهرين، 2004

  - ‏دورات علمية و مدارس صيفية:

- <u>Huda Al-Nayyef</u>, Christophe Guyeux, and Jacques Bahi. (**Impact of Transposable Elements on the Genomic Inversions of Bacterial Species**). SSBSS 2015, 2nd International Synthetic and Systems Biology Summer School, Taormina - Sicily, Italy, July 2015.

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- Fabrice LAURI, "*Machine Learning – Theory and Algorithms*", University of Franche-Comté, Belfort, 14 hours, 4-5 Feb. 2014, France.

- François VERNOTTE, "*Exploitation statistics des mesures*", University of Franche-Comté, 9 hours, (3, 10, and 17) Apr. 2014, France.