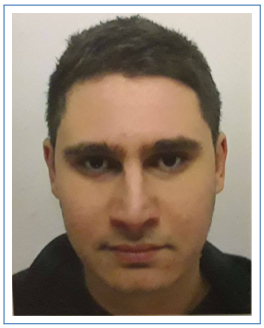

Soulaimane GUEDRIA

Curriculum Vitae

Ph.D. in Computer Science & Software Enginner

Education

2017-2020 **Ph.D. in Computer Science**, *Univ. Grenoble Alpes*, Grenoble.
Thesis: A scalable and component-based deep learning parallelism platform: an application to convolutional neural networks for medical imaging segmentation.

2013 - 2016 **Software Engineer**, *INSAT, Carthage University*, Tunis, Engineer's degree.
Specialization in information systems management

2011 - 2013 **Integrated Preparatory Cycle**, *INSAT, Carthage University*, Tunis.
Mathematics, physics and computer science

2007 - 2011 **Baccalaureate**, *High school of Ksibet Mediouni*, Monastir, Computer Science.
Honors

Experience

2021–Present **Research Engineer/Post-doctoral Research Fellow** , *Floralis UGA Filiale*, Grenoble.
Technology transfert of my Ph.D. thesis results in collaboration with Huawei Technologies

2020–2021 **Research Fellow**, *Laboratoire D'Informatique de Grenoble, AGEIS (Univ. Grenoble Alpes)*, Grenoble.
Design and development of a deep-learning-based solution for rapid detection and diagnostic of Covid-19

2017–2020 **Ph.D Candidate**, *Laboratoire D'Informatique de Grenoble, AGEIS (Univ. Grenoble Alpes)*, Grenoble.
Building an end-to-end scalable deep learning toolkit for medical imaging and development of a component-based software framework to automate convolutional neural network (CNN) parallelism. Conducting a thorough analysis of the generalizability of the CNN parallelism techniques to the imaging segmentation applications and proposing a guideline to scale up CNNs training process without accuracy loss.

2017 – 2019 **Graduate Teaching Assistant**, *IUT2, Univ. Grenoble Alpes*, Grenoble.
I was teaching Linux, web development basics, algorithmics, c programming and providing end of study project tutoring.

Bâtiment IMAG, 700 Avenue Centrale – 38401 Saint-Martin-d'Hères, France
+33 (0) 769 228 693 • +33 (0) 457 421 658
soulaimane.guedria@univ-grenoble-alpes.fr • www.guedria.com

Feb–Jul 2016 **Data scientist Intern**, *Thuasne*, Grenoble.
- Building a sentimental analysis system in order to detect and pull trends of a patient dedicated social network http://www.des-ailes-pour-votre-sante.com/
- Developing of a text clustering application used in various tasks by the company's marketing department.

2011–2014 **Tennis Refree**, *International Tennis Federation (ITF)*.
Level 1 ITF refree in a set of national and international tennis tournaments.

Jul–Aug 2014 **Software Engineer Intern**, *Anypli*, Monastie, Tunisia.
Design and development of a Windows Phone 8.1 food delivery application.

Awards

2019 Judges' Vote Award Winner of the EIT Health PhD Translational Fellowships 2019, University of Oxford, England, UK

2018 EIT Health Innovation Days 2018 Grenoble Bronze Winner, Grenoble, France

2011 Baccalaureate Excellence Award (Ranked 9th nationally), Tunisia

Skills

Advanced Deep Learning, Software Engineering, Distributed Systems, Big Data

Intermediate Medical Imaging, Text mining, Web and mobile development

Basic Blockchains

Scientific Communications

2019 Automating CNN Parallelism with Components, *(2019 IEEE International Conference on Computational Science and Computational Intelligence (CSCI-ISHI) at: Las Vegas, Nevada, USA)*

2019 Auto-CNNp: a component-based framework for automating CNN parallelism, *(IEEE BigData 2019 PEASH Workshop at Los Angeles, CA, USA)*

2020 R2D2: A scalable deep learning toolkit for medical imaging segmentation, *Software: Practice and Experience*

2020 Variability and reproducibility in deep learning for medical image segmentation, *Scientific Reports - Nature Research (SREP)*

Languages

Arabic **Mothertongue**

French **Fluent**

English **Fluent**

Interests

- Tennis
- Healthcare fundraising
- Entrepreneurship
- Animal shelter volunteer

Bâtiment IMAG, 700 Avenue Centrale – 38401 Saint-Martin-d'Hères, France
+33 (0) 769 228 693 • +33 (0) 457 421 658
soulaimane.guedria@univ-grenoble-alpes.fr • www.guedria.com