

School of Electrical Engineering and Computer Science  
Washington State University  
Pullman, WA, USA

🌐 [Personal Webpage](#)  
✉ [yassine.chemingui@wsu.edu](mailto:yassine.chemingui@wsu.edu)

## RESEARCH SUMMARY

I am interested in research on **Offline Optimization** and **Reinforcement Learning**, with a focus on developing practical methods that enable safe, efficient, and trustworthy decision-making from limited data, covering the following areas:

- **Offline Model-Based Optimization**
  - Developing surrogate models to approximate expensive or unknown objective functions.
  - Designing efficient strategies for solving high-dimensional and complex design problems.
  - Applications: Nanoporous materials discovery and Hardware design
- **Offline Safe Reinforcement Learning**
  - Incorporating safety constraints to ensure reliable policy deployment.
  - Exploring robust and risk-aware policy optimization with offline data.
  - Applications: Smart grid management and Clinician-in-the-Loop

## EDUCATION

<b>Ph.D., Computer Science</b> <i>Washington State University</i> Advisor: <a href="#">Prof. Jana Doppa</a> <i>Thesis: Advances in Offline Decision-Making: Black-box Optimization, Safe Reinforcement Learning, and Policy Comparison from Logged Data.</i>	2022 – Present <i>Pullman, WA, USA</i>
<b>Polytechnician Engineer Degree</b> 🎓 (Graduated with Excellence) <i>Tunisia Polytechnic School</i> Major: <i>Signals &amp; Systems</i> <i>Thesis: Reinforcement Learning Approach for Inventory Replenishment.</i>	2015 – 2018 <i>Tunis, Tunisia</i>
<b>University First Cycle Studies</b> 🎓 (Top 2% Nationally) <i>Preparatory School For Engineering Studies of Tunis (IPEIT)</i> Major: <i>Mathematics-Physics</i>	2013 – 2015 <i>Tunis, Tunisia</i>

## AWARDS AND HONORS

- |  |           |
|--|-----------|
| • <b>Outstanding Research Assistant in Computer Science Award</b><br><i>School of Electrical Engineering and Computer Science, Washington State University</i> | 2024-2025 |
| • <b>Outstanding Research Assistant in School of EECS Award</b><br><i>Voiland College of Engineering and Architecture, Washington State University</i>         | 2024-2025 |
| • <b>AAAI Student Scholarship and Volunteer Program</b><br><i>Association for the Advancement of Artificial Intelligence Conference</i>                        | 2025      |
| • <b>NeurIPS Top Reviewer Award</b><br><i>Conference on Neural Information Processing Systems</i>  | 2024      |
| • <b>Mahmoud M. Dillsi Family Graduate Fellowship</b><br><i>School of Electrical Engineering and Computer Science, Washington State University</i>             | 2023-2024 |
| • <b>Alfred Suksdorf Fellowship</b><br><i>Voiland College of Engineering and Architecture, Washington State University</i>                                     | 2023-2024 |

- **Tunisia National Rank 49 (Top 2%)** 2015  
*Qualification Exam for Engineering Schools Entrance*
- **Tunisia National Rank 379 (Top 2.5%)** 2013  
*Tunisian Mathematics Baccalaureate*

## PROFESSIONAL APPOINTMENTS

---

- Research Assistant** 2022 – Current  
EECS Department - Washington State University, USA,  
  - Offline Safe Reinforcement Learning.
  - Offline Model Based Black-box Optimization.
- Machine Learning Fellow** 2021  
Fellowship AI, USA,  
  - Automation of domain specific chat-bots.
  - Integration of RASA with Facebook’s Blenderbot.
- Research Assistant** 2019 – 2021  
Department of Electrical Engineering - Qatar University, Qatar  
  - Development of reinforcement learning-based energy management system for school buildings.
  - Development of deep learning-based load identification module.
- Applied Mathematics Engineer** 2018 – 2019  
ADAGOS, Tunisia  
  - Develop machine learning solutions based on company’s neural networks tools.
  - Work on internal research projects.
- Graduation Project Internship** 2018  
Infor, Tunisia  
  - Development of reinforcement learning-based inventory replenishment model.
- Research and Development Intern** 2017  
Mass Analytics, Tunisia  
  - Intelligent crawling via text mining techniques with topic modeling of outputs.

## PUBLICATIONS

---

1. [NeurIPS’25] Yassine Chemingui, Aryan Deshwal, Alan Fern, Thanh Nguyen-Tang, Janardhan Rao Doppa. **O3SRL: Online Optimization for Offline Safe Reinforcement Learning**. Conference on Neural Information Processing Systems (NeurIPS), 2025.
2. [AAAI’25] Yassine Chemingui, Aryan Deshwal, Honghao Wei, Alan Fern, Janardhan Rao Doppa. **Constraint-Adaptive Policy Switching for Offline Safe Reinforcement Learning**. Association for the Advancement of Artificial Intelligence Conference (AAAI), 2025 (**Oral**).
3. [AAAI’24] Yassine Chemingui, Aryan Deshwal, Trong Nghia Hoang, and Janardhan Rao Doppa. **Offline Model-based Black-Box Optimization via Policy-Guided Gradient Search**. Association for the Advancement of Artificial Intelligence Conference (AAAI), 2024.
4. [EECSS’21] Yassine Chemingui, Adel Gastli and Mahdi Houchati. **Deep Learning-based Electric Appliances Identification from their Switching-On Current Waveforms**. 7th World Congress on Electrical Engineering and Computer Systems and Sciences s (EECSS), 2021.
5. [Energies’20] Yassine Chemingui, Adel Gastli and Omar Ellabban. **Reinforcement Learning-Based School Energy Management System**. Energies 2020.
6. [ICASET’20] Yassine Hchaichi, Yassine Chemingui, and Mariem Affes. **A Policy Gradient Based Reinforcement Learning Method for Supply Chain Management**. 4th International Conference on Advanced Systems and Emergent Technologies (ICASET), 2020.

## ACADEMIC AND PROFESSIONAL SERVICE

---

### Program Committee Member at Top AI and ML Conferences

- Association for the Advancement of Artificial Intelligence (**AAAI**) 2026
- Conference on Neural Information Processing Systems (**NeurIPS**) 2025
- International Conference on Machine Learning (**ICML**) 2025
- International Conference on Learning Representations (**ICLR**) 2025
- Artificial Intelligence and Statistics (**AISTATS**) 2025
- Association for the Advancement of Artificial Intelligence (**AAAI**) 2025
- Conference on Neural Information Processing Systems (**NeurIPS**) — *Top Reviewer* 2024
- Association for the Advancement of Artificial Intelligence (**AAAI**) 2024

### Tecahing Assistant

- CptS 437: Introduction to Machine Learning Fall 2023

## PROFESSIONAL REFERENCES

---

- **Prof. Jana Doppa**  
Huie-Rogers Endowed Chair Professor of Computer Science  
*School of Electrical Engineering and Computer Science,*  
*Washington State University*  
✉ [jana.doppa@wsu.edu](mailto:jana.doppa@wsu.edu)
- **Prof. Alan Fern**  
Professor of Computer Science and Associate Head of Research  
*School of Electrical Engineering and Computer Science,*  
*Oregon State University*  
✉ [alan.fern@oregonstate.edu](mailto:alan.fern@oregonstate.edu)
- **Prof. Aryan Deshwal**  
Assistant Professor of Computer Science  
*Department of Computer Science and Engineering,*  
*University of Minnesota*  
✉ [adeshwal@umn.edu](mailto:adeshwal@umn.edu)

## LANGUAGES

---

- Arabic: Native
- English: Professional
- French: Professional
- German: Basic