

ABDULLA JASEM ALMANSOORI

abdu.jasem@gmail.com ◊ +971 55 101 8698 ◊ github.com/zeligism

RESEARCH OBJECTIVE

My research focuses on optimization in machine learning, with a particular interest in efficient and collaborative learning under the context of personalized federated learning. I aim to develop solutions to real-world challenges involving private data sources, such as in healthcare.

EDUCATION

Mohamed bin Zayed University of Artificial Intelligence Abu Dhabi, UAE
PhD in Machine Learning (Supervisor: Martin Takáč & Samuel Horváth) (Aug 2021 - Present)

- Research: optimization, federated learning, generative models, representation learning.
- Courses: optimization, advanced machine learning, probabilistic and statistical inference.

University of Southern California Los Angeles, CA
MS in Computer Science (Jan 2017 - Dec 2018)

- Courses: artificial intelligence, machine learning theory, robotics, algorithms, databases, computer architecture, operating systems, web technologies.

Purdue University West Lafayette, IN
BS in Industrial Engineering (with distinction) (Aug 2012 - May 2016)

- Courses: probability, statistics, multivariate calculus, linear algebra, differential equations, discrete math, real analysis, abstract algebra, linear programming, stochastic processes, control systems.

WORK EXPERIENCE

UAE National Service (Feb 2021 - Jun 2022)

- Finished army boot camp. Worked as a security guard in Dubai International Airport and Al Maktoum International Airport, and as a vehicle inspector in Expo 2020.

New York University (NYUAD) Abu Dhabi, UAE
Research Assistant (PI: Kris Gunsalus) (Jan 2020 - Feb 2022)

- Supported AI research with the core bioinformatics team, focusing on building and deploying containerized deep learning models on a high-performance cluster using Slurm, gaining experience in computational biology workflows. Ran simulations of outbreaks in small communities with custom testing strategies (*with Francesco Paparella*).

PUBLICATIONS

Conference

1. *Byzantine-Tolerant Methods for Distributed Variational Inequalities.* (2023)
Nazarii Tupitsa, **Abdulla Jasem Almansoori**, Yanlin Wu, Martin Takáč, Karthik Nandakumar, Samuel Horváth, Eduard Gorbunov. [Neural Information Processing Systems \(NeurIPS\)](#).

Journal

1. *PaDPaF: Partial Disentanglement with Partially-Federated GANs.* (2024)
Abdulla Jasem Almansoori, Samuel Horváth, and Martin Takáč. [Transactions on Machine Learning Research \(TMLR\)](#).
2. *Stochastic Gradient Methods with Preconditioned Updates.* (2024)
Abdurakhmon Sadiev, Aleksandr Beznosikov, **Abdulla Jasem Almansoori**, Dmitry Kamzolov, Rachael Tappenden, and Martin Takáč. [Journal of Optimization Theory and Applications \(JOTA\)](#).

Under Review

1. *Collaborative and Efficient Personalization with Mixtures of Adaptors.* (2024)
Abdulla Jasem Almansoori, Samuel Horváth, and Martin Takáč.

ACADEMIC SERVICE

- **Teaching Assistant at MBZUAI:** (i) ML701: Machine Learning (Fall 23, Fall 24), (ii) ML802: Advanced Topics in Machine Learning (Spring 24).
- **Conference reviewer:** (i) NeurIPS 2022, 2023, 2024, (ii) ICML 2023, 2024, (iii) ICLR 2023, 2024, 2025, (iv) ICOMP 2024, (v) TMLR.

ACHIEVEMENTS

- Best Reviewer Award, ICML 2024.
- Project Coordinator, MBZUAI Executive Program, 2023.
→ Coordinated an AI strategy project with executive participants.
- Kawader Research Assistantship, NYUAD, 2020.
- Phi Beta Kappa Society, Purdue University, 2016.
- Distinguished Students Scholarship, UAE Scholarships Office, 2012.
→ The UAE's most prestigious academic scholarship.

SKILLS

Programming Languages	Python, C, Shell, Haskell, Javascript
Machine Learning	PyTorch, flwr, NumPy, Matplotlib, pandas
Tools	Slurm, Docker, Git, L ^A T _E X
Languages	Arabic (native), English (fluent), Japanese (JLPT N3), Italian (conversational)

REFEREES

- Martin Takáč, Associate Professor, MBZUAI: martin.taki@gmail.com.
- Samuel Horváth, Assistant Professor, MBZUAI: samuel.horvath@mbzuai.ac.ae.
- Nizar Drou, Core Bioinformatics Lead Developer, NYUAD: nizar.drou@nyu.edu.