

ABDULLA JASEM ALMANSOORI

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RESEARCH OBJECTIVE

I am interested in optimization in machine learning, specifically personalized federated learning.

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 Airport and Expo 2020.

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

- Built and deployed containerized deep learning models on the cluster with slurm. Created pipelines of AI-based bioinformatics tools for next-generation sequencing.

PUBLICATIONS

Conference

- *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

- *PaDPaF: Partial Disentanglement with Partially-Federated GANs.* (2024)
Abdulla Jasem Almansoori, Samuel Horváth, and Martin Takáč. [Transactions on Machine Learning Research \(TMLR\)](#).
- *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 \(JOTA\)](#).

In-progress

- *Collaborative and Efficient Personalization with Mixtures of Adaptors.* (2023)
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.

ACHIEVEMENTS

- Best Reviewer Award at ICML 2024.
- Project coordinator in the fourth cohort of the MBZUAI Executive Program, 2023.
- Kawader research assistantship, NYUAD, 2020.
- Phi Beta Kappa society, Purdue University, 2016.
- Distinguished Students Scholarship from the Scholarships Office (SCO), UAE, 2012.

SKILLS

Coding	Python, C, Shell, Haskell, Javascript.
Tools	L ^A T _E X, PyTorch, pandas, flwr, Slurm, git, gdb, AngularJS.
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.