

Abbas ALIPANAH KORDLAR

Aspiring Researcher in Maritime Engineering
Specializing in Cognitive Maritime Studies and Artificial Intelligence

I am a highly motivated and accomplished researcher with a Master's degree in Maritime Studies from Istanbul Technical University. My research interests lie in Cognitive Maritime Studies, with a strong focus on the intersection of artificial intelligence, maritime operations, and decarbonization. With experience in emotion recognition systems, psychophysiological data analysis, and safety enhancement, I am eager to contribute to pioneering research in maritime engineering and sustainability.

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Abbas Alipanah Kordlar 📍 Istanbul, Turkey

WORK & RESEARCH EXPERIENCE

Data Reporting Optimization Specialist

Digital Exchange

📅 Nov 2024 - ongoing 📍 Istanbul, Turkey

- I work as a Data Reporting Optimization Specialist at Digital Exchange (DEX), focusing on streamlining data retrieval and reporting processes through API integrations with platforms like Google Analytics, Meta, and TikTok. My role aims to reduce costs, automate workflows, and enhance data accuracy. Additionally, I am contributing to the development of an AI-powered reporting system as part of DEX's long-term innovation strategy.

Maritime Researcher | Cognitive Maritime Laboratory

BAP Project

📅 Sep 2023 - May 2024 📍 Istanbul, Turkey

- Developed an Emotion Recognition System utilizing machine learning techniques for maritime operations. The system leverages psychophysiological data to monitor crew emotional states, enhancing maritime safety by enabling real-time interventions.

Engineering Manager

D3 Teknik

📅 Mar 2020 - Aug 2021 📍 Istanbul, Turkey

- Managed engineering projects focusing on maritime technologies, ensuring high-quality deliverables and client satisfaction. Played a dual role as a sales manager, expanding the company's market presence in Europe and the USA.

Researcher

Urmia University of Technology

📅 Oct 2016 - May 2018 📍 Urmia, Iran

- Research and development of renewable energy

Designer

MSM

📅 Aug 2018 - Sep 2019 📍 Urmia, Iran

- Define a product roadmap, including business case global standards for web-casting

EDUCATION

M.Sc. Maritime Studies

Istanbul Technical University

📅 Feb 2022 - Aug 2024 📍 Istanbul, Turkey

SKILLS

Python

Utilized for maritime data analysis and developing machine learning models to enhance safety. ●●●●●

Machine Learning

Applied in maritime safety and operations, specifically for emotion recognition systems. ●●●●●

Project Management

Managed engineering projects ensuring quality and timely delivery in maritime settings. ●●●●●

Agile Project Leadership

Led agile projects to improve efficiency and collaboration in maritime research and development. ●●●●●

Scrum Master

Certified Scrum Master, facilitating agile practices in maritime projects. ●●●●●

Statistical Analysis

Interpreted complex maritime data to derive actionable insights. ●●●●●

Data Visualization

Created informative visual representations of maritime data to support decision-making. ●●●●●

MS Office Pack | LaTeX

Essential for maritime research documentation and professional presentations. ●●●●●

Cognitive Science Tools

Applied to study crew behavior and improve safety in maritime operations. ●●●●●

STRENGTHS

- Implement novel ML and DL methods from scientific papers to enhance maritime safety and operations
- Highly motivated and deadline-oriented, ensuring timely completion of maritime projects
- Experienced in leading research teams in maritime studies
- Deploy ML and DL models into production to improve maritime operational efficiency
- Teamwork and continuous learning to stay updated with the latest maritime industry advancements

- **Thesis:** Design of an Emotion Recognition System Using Machine Learning for Maritime Operations: Development of a Cognitive Interface with Psychophysiological Data Analysis
- GPA: 3.81

B.Sc. Mechanical Engineering

Azad University of Tabriz

Jan 2011 - Sep 2016 Tabriz, Iran

- GPA: 2.67

PUBLICATIONS

1. **Alipanah Kordlar, Abbas.** (April, 2023). Statistical Approaches to Seafarer's Fatigue. *Maritime Wellbeing Book*. Nova Publishers. ↓
2. **Alipanah Kordlar, Abbas, & Tavacioglu, L.** (2024). Design of an emotion recognition system using machine learning for maritime operations development of a cognitive interface with psychophysiological data analysis. Paper presented at the *International Conference on Educational Sciences, Psychology, Sport Sciences and Physical Education*.
3. Kızılsaç, B. B., Aksoy, K. D., Gıcı, D. Y., Tavacıoğlu, L., & **Alipanah Kordlar, Abbas.** (2024, April 8). Revealing the relationship between substance abuse and prevalence of anxiety in maritime workers. *Eurasian Academy of Sciences Social Sciences Journal*, 52, 98-107. ↓
4. Dolu, D. A., Tavacıoğlu, L., Kılınç, A. T., **Alipanah Kordlar, Abbas,** & Kızılsaç, B. B. (2023, December 28). The relationship between workload, work stress and burnout in masters and deck officers. *Eurasian Business & Economics Journal*, 34, 91-104.
5. **Alipanah Kordlar, Abbas,** Kızılsaç, Baris, & Tavacioglu, Leyla. (2023). The Relationship Between Workload, Work Stress, and Burnout in Masters and Deck Officers. *Eurasian Academy of Sciences Social Sciences Journal*. ↓
6. **Alipanah Kordlar, Abbas,** & Tavacioglu, L. (2023). Safety Culture in Maritime. *Multidisciplinary SCIENTIFIC JOURNAL OF MARITIME RESEARCH* (sent to the journal).
7. **Alipanah Kordlar, Abbas,** Nasrollahzadeh Sabet, S., Rezaei, S., & Zamani Ghermezkhah, M. (2017). Numerical investigation of flow around 4 square cylinders with different space. *International Conference on New Horizons in Engineering Sciences*. ↓
8. **Alipanah Kordlar, Abbas,** Pirmahboub, S., & Zamani Ghermezkhalefeh, M. (2018). Investigating of Lift coefficient in 5 square cylinders in different spaces and different Reynolds numbers in steady state. *International Conference on New Horizons in Engineering Sciences*. ↓
9. **Alipanah Kordlar, Abbas,** Rezaei, S., & Rezapour Ghouschi, A. (2018). Numerical study of circular vortex generator in wavy microchannel. *3rd International Conference on Applied Research in Science and Engineering*. ↓
10. Pirmahboub, S., **Alipanah Kordlar, Abbas,** & Zamani Ghermezkhalefeh, M. (2018). Numerical study of the effect of 3 baffles on heat transfer and the laminar flow pattern in a microchannel in different Reynolds number. *International Conference on New Horizons in Engineering Sciences*. ↓
11. Pirmahboub, S., Zamani Ghermezkhalefeh, M., & **Alipanah Kordlar, Abbas.** (2018). Numerical study of the effect of 3 rectangular vortex generators and one square vortex generator on heat transfer in a microchannel in different Reynolds number. *International Conference on New Horizons in Engineering Sciences*. ↓
12. **Alipanah Kordlar, Abbas,** & Zare, V. (2017). Energy analysis and exergy refrigeration cycle cascade to create low temperatures. *25th Seminars and Conferences of The Iranian Society of Mechanical Engineers (ISME)*. ↓

LANGUAGES

English

Turkish

Azerbaijani

Persian

Arabic

German

MOST PROUD OF

Being in the top 3%
of university entrance exam among more than half a million people

Bap Research Scholarship
Awarded by the Istanbul Technical University, reflecting my academic excellence and research potential in maritime studies.

Completed a TÜBİTAK project
The research project was in the field of maritime operations and safety. The original scope of the project had anticipated the involvement of two master's degree students and one PhD candidate, however, I was able to successfully complete the project solo under the guidance of my academic advisor.

REFERENCES

Prof. Dr. Leyla TAVACIOĞLU
tavaciog@itu.edu.tr

Prof. Dr. Bayram Barış KIZILSAÇ
kizilsac@itu.edu.tr

13. Zare, V., & **Alipanah Kordlar, Abbas**. (2017). Energy analysis and exergy of turbofan engine equipped with afterburner. *25th Seminars and Conferences of The Iranian Society of Mechanical Engineers (ISME)*. ↓