



ALLA MAGNIFICA RETTRICE  
DELL'UNIVERSITA' DEGLI STUDI DI MILANO

COD. ID:7073

Il sottoscritto chiede di essere ammesso a partecipare alla selezione pubblica, per titoli ed esami, per il conferimento di un assegno di ricerca presso il Dipartimento di MATHEMATICS AND COMPUTER SCIENCES.

Responsabile scientifico: **Prof. Cazzola Walter**

Muhammad Adnan

## CURRICULUM VITAE

### INFORMAZIONI PERSONALI

Cognome	Adnan
Nome	Muhammad

### OCCUPAZIONE ATTUALE

Incarico	Struttura
Joint PhD student: University of Genova/ University of Carlos III, Madrid	1. Conduct research on LiDAR point clouds to detect and track obstacles around the ego vehicle. 2. Perform classification of static and dynamic tracks using advanced data analysis techniques. 3. Localize the ego vehicle using static tracks and Dynamic Bayesian Networks. 4. Complete technical courses at the University of Genova and non-technical courses at the University Carlos III of Madrid. 5. Publish research findings in reputable conferences and journals. 6. Attend and participate in workshops relevant to the research field. 7. Present research through poster presentations at academic and industry events. 8. Participate in weekly departmental meetings to discuss research progress and collaborative projects.
Computer science lecturer: 04/04/2016 - 29/12/2021	1. Devised and delivered comprehensive lectures to undergraduate students, ensuring clarity and engagement. 2. Facilitated dynamic and inclusive classroom discussions to enhance learning experiences. 3. Conducted independent research and attended national and international symposiums to stay abreast of the latest advancements in computer science. 4. Planned, developed, and revised curriculum materials to meet academic standards and student needs. 5. Collaborated with the Head of Department to monitor and support student progress. 6. Designed and administered examinations to evaluate student knowledge and understanding. 7. Supervised practical lab sessions in Machine Learning, Deep Learning, and Web Development. 8. Organised and arranged seminars to promote knowledge sharing and professional development. 9. Actively participated as an organiser in international conferences to foster academic collaboration and exchange.



Web developer: 01/01/2013 - 28/02/2016	1. Built, designed, and maintained the company's official website, ensuring a user-friendly interface and seamless functionality. 2.
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	Collaborated with team members and supervisors to align the website's direction with company goals and branding strategies. 3. Conducted thorough research on various software programs to identify the best tools and technologies for web development projects. 4. Maintained detailed software documentation to ensure consistency and facilitate future updates or troubleshooting. 5. Participated in regular meetings with company officials to discuss project progress, gather requirements, and implement feedback. 6. Provided training sessions for staff members to enhance their understanding of website functionalities and basic maintenance tasks. 7. Implemented security measures to protect the website from vulnerabilities and ensure data privacy. 8. Optimised website performance by analyzing metrics and making necessary adjustments to improve loading times and overall user experience. 9. Integrated third-party services and APIs to enhance website capabilities and provide additional functionalities. 10. Developed responsive web designs to ensure compatibility across various devices, including desktops, tablets, and smartphones. 11. Troubleshooted and resolved technical issues promptly to minimize downtime and maintain website reliability. 12. Stayed updated with the latest web development trends and technologies to continuously improve the website's features and performance.
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## ISTRUZIONE E FORMAZIONE

Titolo	Corso di studi	Università	anno conseguimento titolo
Laurea Magistrale o equivalente	Master in computer science	Blekinge institute of technology	2010
Specializzazione			
Dottorato Di Ricerca	PhD in engineering and Computer science	University of Genova/University Carlos III, Madrid	PhD contract completed in December 2024. Submission of thesis (deadline January,2025)
Master			
Diploma Di Specializzazione Medica			
Diploma Di Specializzazione Europea			
Altro			

## ISCRIZIONE AD ORDINI PROFESSIONALI

Data iscrizione	Ordine	Città



## LINGUE STRANIERE CONOSCIUTE

lingue	livello di conoscenza
1. English	Professional
2. Urdu	Native
3. Pashto	Mother tongue
4. Spanish	Beginner

## PREMI, RICONOSCIMENTI E BORSE DI STUDIO

anno	Descrizione premio
2022	Italian PhD PON scholarship

## ATTIVITÀ DI FORMAZIONE O DI RICERCA

1. Machine learning crash course 2022
2. Deep learning: a hands on introduction
3. Computer vision crash course
4. Probabilistic reasoning/Dynamic Bayesian networks
5. International summer school on Artificial Intelligence 2023 (University of Udine, Italy)
6. Practice your dissertation oral's exam
7. Speak More Clearly in English: Rhythm, Beat, Articulation and Chunking / Enjoy the ride: Writing
8. project management and mindset skills for doctoral students

## ATTIVITÀ PROGETTUALE

## TITOLARITÀ DI BREVETTI

Brevetto
1. IoT, Big Data Healthcare Summit Western Canada

## CONGRESSI, CONVEGNI E SEMINARI

Data	Titolo	Sede




## PUBBLICAZIONI

<b>Libri</b>
[titolo, città, editore, anno...]
[titolo, città, editore, anno...]

<b>Articoli su riviste</b>
Adnan M, Slavic G, Martin Gomez D, Marcenaro L, Regazzoni C. Systematic and comprehensive review of clustering and multi-target tracking techniques for LiDAR point clouds in autonomous driving applications. <i>Sensors</i> . 2023 Jul 3;23(13):6119.
Feng C, Adnan M, Ahmad A, Ullah A, Khan HU. Towards Energy-Efficient Framework for IoT Big Data Healthcare Solutions. <i>Scientific Programming</i> . 2020;2020(1):7063681.
Ahmad A, Ullah A, Feng C, Khan M, Ashraf S, Adnan M, Nazir S, Khan HU. Towards an Improved Energy Efficient and End-to-End Secure Protocol for IoT Healthcare Applications. <i>Security and Communication Networks</i> . 2020;2020(1):8867792.
Usman M, Khan MA, Salam A, Adnan M. Designing a Framework for Standardization of Ophthalmic Data using DICOM. <i>International Journal of Computer Science and Information Security</i> . 2016 Sep 1;14(9):1248.
Autonomous Vehicle Localization using combined dictionaries-based predictions via LiDAR-Based Classification of Dynamic and Static Tracks in Dynamic Environments (submitting for the journal)

<b>Atti di convegni</b>
Adnan M, Zontone P, Marcenaro L, Gómez DM, Regazzoni C. Classifying Static and Dynamic Tracks for LiDAR-Based Navigation of Autonomous Vehicle Systems. In <i>2024 9th International Conference on Frontiers of Signal Processing (ICFSP) 2024 Sep 12 (pp. 111-117)</i> . IEEE.
Khan K, Banoori F, Adnan M, Zahoor R, Khan T, Obite F, William NJ, Ahmad A, Qayum F, Nazir S. Smart Pilot Decontamination Strategy for High and Low Contaminated Users in Massive MIMO-5G Network. In <i>Proceedings of International Conference on Information Technology and Applications: ICITA 2022 2023 May 19 (pp. 435-447)</i> . Singapore: Springer Nature Singapore.
Autonomous Vehicle Localization via LiDAR-Based Classification of Dynamic and Static Tracks in Dynamic Environments (submitted to IJCNN conference at ROME)

## ALTRE INFORMAZIONI


Le dichiarazioni rese nel presente curriculum sono da ritenersi rilasciate ai sensi degli artt. 46 e 47 del DPR n. 445/2000.



# UNIVERSITÀ DEGLI STUDI DI MILANO

Il presente curriculum, non contiene dati sensibili e dati giudiziari di cui all'art. 4, comma 1, lettere d) ed e) del D.Lgs. 30.6.2003 n. 196.

**RICORDIAMO** che i curricula **SARANNO RESI PUBBLICI sul sito di Ateneo** e pertanto si prega di non inserire dati sensibili e personali. Il presente modello è già precostruito per soddisfare la necessità di pubblicazione senza dati sensibili.

Si prega pertanto di **NON FIRMARE** il presente modello.

Luogo e data: 12/02/2025, \_\_\_\_\_