

Ali Gökhan Demir

Work experience

10/2018 – Ongoing	Assistant Professor – Senior (RTDb) Politecnico di Milano, Department of Mechanical Engineering, Milan, Italy
3/2015 – 10/2018	Assistant Professor (RTDa) Politecnico di Milano, Department of Mechanical Engineering, Milan, Italy
3/2014 – 3/2015	Post-Doctoral Researcher Politecnico di Milano, SITEC – Laboratory for Laser Applications, Department of Mechanical Engineering, Milan, Italy
1/2013 – 3/2014	Research Assistant Politecnico di Milano, Department of Mechanical Engineering, Milan, Italy

Education

1/2010 – 3/2014	Politecnico di Milano Ph.D. in Mechanical Engineering Manufacturing and Production Systems Division Milan, Italy Graduation grade: European PhD title with Merit Final thesis: “Development of Processing and Monitoring Strategies for Laser Surface Texturing of TiN coatings”
10/2007 – 10/2009	Politecnico di Milano M.Sc. in Mechanical Engineering Lecco, Italy Graduation grade: 110/110 Final thesis: “Laser microdrilling and anodic oxidation of titanium for the manufacturing of wettability controlled microvalve”
9/2003 - 7/2007	Yildiz Technical University B.Sc. in Mechanical Engineering Istanbul, Turkey GPA: 3.18/4.00 Final thesis: “Nanotubes and their applications” (in Turkish)

Teaching

Since A.Y. 2019/20	Lecturer – Tecnologia Meccanica 1 BSc in Mechanical Engineering, Milan
Since A.Y. 2013/14	Teaching assistant – Advanced Manufacturing Technologies Lab. MSc in Mechanical Engineering, Milan
2013/14 – 2018/19	Teaching assistant – Tecnologia Meccanica 1 BSc in Mechanical Engineering, Milan
A.Y. 2011/12-2013/14	Lab. assistant – Miglioramento Continuo delle Tecnologie MSc in Mechanical Engineering, Milan

A.Y. 2011/12-2013/14	Lab. assistant – Laboratorio delle Tecnologie Speciali MSc in Mechanical Engineering, Milan
A.Y. 2012/2013	Teaching assistant - Materiali e Tecnologie per l'Innovazione del Prodotto Industriale MSc in Industrial Product Design, Milan
A.Y. 2011/2012	Teaching assistant - Unconventional Machining MSc in Mechanical Engineering, Lecco

Awards

- Best paper award at 39th International MATADOR Conference on Advanced Manufacturing, 2017
- Award for high scientific productivity at the Department of Mechanical Engineering of Politecnico di Milano, 2016
- Premio Giovane Ricercatore AITeM “E. Capello” 2015- Young researcher award
- Heidenhein Scholarship, 2013 – Awarded at the 13th euspen International Conference in Berlin, Germany
- DTU Summer School on Microsystems Manufacture and Design, Lyngby, Denmark, 2011 – Scholarship for attendance
- euspen Student Challenge 2011 – Italy national heat winner
- Premio UCIMU 2010 - M.Sc. thesis prize in the category of “machine tools and manufacturing systems: design, engineering, integration, and technology applications in industrial production”
- Premio AITeM 2009 “F. Soavi” - M.Sc. thesis prize
- Ph.D. scholarship provided by Italian state and Department of Mechanical Engineering of Politecnico di Milano, 2010 - 2013
- M.Sc. scholarship provided by UniverLecco, 2007 - 2009
- Baskent Cup, Hidromobil 2007 – Fuel cell vehicle competition in Turkey. Participated with Solar Energized Systems Student Society of YTU

Projects with public or industrial funding

Since 2017	MADE4LO – Metal Additive for Lombardy. Project funded by Lombardy Region
Since 2017	AMATHO – Additive Manufacturing of Tiltrotor Hoursing, Clean Sky 2 Project
2017-2019	Run2Rail - Innovative RUNning gear soluTiOns for new dependable, sustainable, intelligent and comfortable RAIL vehicles
2018	Selective Laser Melting for producing household water fittings. Funded by SOS Italia.
2015 – 2017	INFINITE - Innovative laser machine For INdustrial engraving and Texturing. EU H2020 SME Tool
2015 – 2016	Creative Metal 3D Printing. Project funded by Lombardy Region
2013 – 2015	LightJumps - An efficient and effective platform for the cooperation of photonics clusters and the exploitation of European SMEs potential. EU 7 th Framework Program.

- 2013 – 2015 Development of Biodegradable Hybrid Stens in Magnesium with Polymeric Coating for Biomedical Applications. Funded by CARITRO
- 2013 – 2015 Nanostructured and degradable materials for paediatrics. Italo-Canadian executive cooperation program.
- 2013 – 2015 S.T.I.M.A., Hybrid Structures for Mechanics and Aerospace. Funded by Lombardy Region
- 2012 - 2014 LASTECO - LAsER Surface Texturing of COated cold forming dies to enhance the lubrication efficiency and wear life. MANUNET ERA-Net.
- 2011 Study of laser weldability of a Ni shell with an AISI 316L jackets. Funded by Medialario Srl.
- 2011 Study of laser weldability of AISI 304 and Ni elements. Funded by Medialario Srl.

Language Skills

Turkish	Mother tongue
English	Advanced (TOEFL iBT Score: 108)
Italian	Advanced (Level C 2)
German	Pre-Intermediate (Level B 1.1)

Interests

Music, musical instruments and music technologies, traveling, foreign languages.