

Res. Asst. OĞUZ ERYILMAZ

Personal Information

Place of birth: Antalya

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Biography

Oğuz ERYILMAZ is a research associate at Marmara University, Faculty of Technology, Department of Textile Engineering in Istanbul, Turkey. He received his B.Sc. degree in Textile Engineering from Uludağ University in 2011, Bursa. He obtained his M.Sc. degree in Textile Technology Program of Textile Engineering from Marmara University in 2017. Also, He is continuing to complete B.Sc. degree courses in Mechanical Engineering at Pamukkale University. He is currently a Ph.D. candidate in the Department of Textile Engineering at Marmara University. His main research area is Textile-Reinforced Composites which consist of a textile form as 2D or 3D woven fabrics, knitted fabrics, stitched fabrics, braids, nonwovens, multiaxial fabrics, and fibers can be used as textile materials. His specific research fields are:

Radial Braiding and Automated Fiber Placement (AFP) Technology for Carbon Fiber Composite

Thermoset and Thermoplastic Composite Structures Used in Aircraft and Space

Natural Fiber Composites for Automotive Applications

Hybrid Fabrics for Structural Composites

His hobbies are mostly related to aviation. He has been the chief advisor one of the Rocket Teams at Marmara University for almost 3 years. He has been making static model aircraft for 7 years. He is especially interested in commercial aircraft and fighter jet. Currently, there are 5 large body, 7 narrow-body, 7 fighter jets and 1 piston engine in his collection. He frequently visits aviation museums (Technik Museum Sinsheim, Dornier Museum Friedrichshafen, BMW Welt Museum, Turkish Air Force Museum Istanbul, etc.). Also, he likes watching Formula 1 races and investigating effects of composite technology to the F1 cars.

Education Information

Doctorate, Marmara University, Institute For Graduate Studies In Pure And Applied Sciences, Department Of textile Engineering, Turkey 2017 - Continues

Under Graduate, Pamukkale University, Faculty Of Engineering, Department Of Mechanical Engineering, Turkey 2013 - Continues

Post Graduate, Marmara University, Institute For Graduate Studies In Pure And Applied Sciences, Department Of textile Engineering, Turkey 2016 - 2017

Under Graduate, Bursa Uludağ University, Faculty of Engineering, Department of Textile Engineering, Turkey 2007 - 2011

Foreign Languages

German, B1 Intermediate

English, C1 Advanced

Certificates, Courses and Trainings

Vocational Training, ANSYS PrepPost (ACP) for Modelling and Analyzing Composite, UDEMY, 2020
Vocational Training, Basic Principle of KUKA Robotic KR-C2 and KR-C4 Working and Programming , ITA RWTH Aachen University, 2019
Vocational Training, ABAQUS for Adhesive and Composite Joints, UDEMY, 2019
Vocational Training, ANSYS Workbench, UDEMY, 2018
Vocational Training, MATLAB&Simulink, UDEMY, 2018
Personal Evolution, Successfully Accomplished All Exam Stages (DLR-1, HR, CRM, SHT-MED) of Turkish Airlines for First Officer Nominee to be Trained , Turkish Airlines, 2018
Foreign Language, IELTS, IDP IELTS Turkey, 2017
Vocational Training, SolidWorks, UDEMY, 2017
Vocational Training, Instron 4411 Tensile Strength Tester, ITW Test ve Ölçüm Hizmetleri San. ve Tic. Ltd. Şti., 2016
Science and Technology Policy, Aviation Quality System and Certification Training, Istanbul Development Agency, 2015
Foreign Language, German Language In Line With The European Language Portfolio, American Cultural Association, 2012
Finance, E-Foreign Trade Specialist Education, Yorktrade Foreign Trade Institute, 2008

Dissertations

Doctorate, High Pressure/Fuel Vessel Reinforced with Carbon Fiber Composite Design and Production for Aerospace Applications, Marmara University, Institute For Graduate Studies İn Pure And Applied Sciences, Department Of textile Engineering, 2021
Post Graduate, Development of the Mechanical Properties of Composite Structures Reinforced with Carbon Fiber, Marmara University, Institute For Graduate Studies İn Pure And Applied Sciences, Department Of textile Engineering, 2017

Research Areas

Computer Aided Design and Manufacturing, Finite Element Methods, Mechanical Testing, Textile Materials, Textile Physics, Textile Machinery, Technical Textiles, Composites

Academic Titles / Tasks

Research Assistant, Rheinisch-Westfaelische Technische Hochschule Aachen, Faculty of Mechanical Engineering, Institute of Textile Technology, Institut für Textiltechnik (ITA), 2019 - Continues
Research Assistant, Marmara University, Faculty of Technology, Textile Engineering, 2014 - Continues

Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

- Evaluation of the interaction between proliferation, oxidant-antioxidant status, Wnt pathway, and apoptosis in zebrafish embryos exposed to silver nanoparticles used in textile industry**
Eryilmaz O., Ates P. S. , Unal I., Ustundag U. V. , Bay S., Alturfan A. A. , Yiğitbaşı T., Emekli-Alturfan E. I. , Akalin M.
JOURNAL OF BIOCHEMICAL AND MOLECULAR TOXICOLOGY, vol.32, 2018 (Journal Indexed in SCI)

Articles Published in Other Journals

I. Investigation of the Water-Based Ink Hold onto the Thermoplastic Composites Reinforced with Sisal Fibers

Eryılmaz O., Sönmez S., Ovalı S., Jois K.

Journal of Textile Science & Fashion Technology (JTSFT) , vol.5, pp.1-9, 2020 (Refereed Journals of Other Institutions)

Refereed Congress / Symposium Publications in Proceedings

I. Insulation of Parachute Mechanism of Glass Fiber Reinforced Composite Rocket Body Produced by Filament Winding Method with FR Fabrics

Eryılmaz O., Yıldırım Y. E., Demir E., Öz M. E.

Uşak Üniversitesi TTO 1.Ar-Ge ve Tasarım Proje Pazarı: UTTO, Uşak, Turkey, 14 - 16 October 2020, pp.1-19

II. Development of Bio-Composite Structures for Interior Noise Reduction in Automobiles

Sancak E., Özen M. S., Yüksek M., Usta I., Atak O., Beyit A., Pars A., Eryılmaz O.

Aachen – Dresden – Denkkendorf International Textile Conference, Aachen, Germany, 29 - 30 November 2018

III. Comparison of Mechanical Properties of Epoxy Composites Reinforced with Hybrid (Carbon-Aramid) and Carbon Woven Fabrics

Eryılmaz O., Sancak E., Yüksek M.

Aachen – Dresden – Denkkendorf International Textile Conference, Aachen, Germany, 29 - 30 November 2018

IV. An Investigation on Thermal Conductivity Properties of Epoxy Based Twill Fabrics Carbon Composites

Eryılmaz O., Ovalı S., Sancak E., Yüksek M., Akalin M.

8th International Textile Conference Evolution of Technical Textiles, İstanbul, Turkey, 14 - 16 May 2018

V. Exposure to silver nanoparticles used in textile industry affects the embryonic development of zebrafish embryos in a dose dependent manner

ERYILMAZ O., Ateş P. S., Üstündağ Ü. V., Ünal İ., ALTURFAN E. I., YİĞİTBAŞI T., EMEKLİ N., AKALIN M.

10th European Zebrafish Meeting, 3 - 07 July 2017

VI. An Investigation on Mechanical Properties of Epoxy Based Woven Fabrics Carbon Composites

Eryılmaz O., Akalin M., Yüksek M., Sancak E.

14th Asian Textile Conference, Victoria-City, Hong Kong, 27 - 30 June 2017

VII. Mechanical and Electromagnetic Shielding Properties of Stainless Steel Yarn Reinforced Composites

Sancak E., Usta I., Yüksek M., Uzun M., Eryılmaz O., Pars A., Ihlamur M.

14th Asian Textile Conference, Victoria-City, Hong Kong, 27 - 30 June 2017

VIII. Investigation of the Effects of Silver Nanoparticles Used in Textile Industry on Apoptosis and Myc, Cyclin D1, Gsk3 Expressions

Eryılmaz O., Alturfan A. A., Alturfan E. I.

VI. International Congress of Molecular Medicine 2017, İstanbul, Turkey, 22 - 25 May 2017, pp.450-460

IX. Silver Nanoparticles Used in Textile Industry Affect the WNT/ β Catenin Pathway in a Dose Dependent Manner in Zebrafish Embryos

Eryılmaz O., Ateş P. S., Üstündağ Ü. V., Ünal İ., Alturfan E. I., Akalin M.

3. Uluslararası İlaç ve Eczacılık Kongresi, İstanbul, Turkey, 26 - 29 April 2017

X. Development of the Mechanical Properties of the Composite Structures with Reinforced Carbon Fiber

Eryılmaz O., Akalin M., Yüksek M., Sancak E.

10th Asian-Australasian Conference on Composite Materials (ACCM-10), Busan, South Korea, 16 - 19 October 2016

XI. The Toxicity of silver and silver nanoparticles in zebrafish danio rerio embryos

Alturfan E. I., Eryılmaz O., Yüksek M., Akalin M.

V. International Congress of Molecular Medicine, İzmir, Turkey, 20 - 22 May 2015

Supported Projects

Eryilmaz O., TUBITAK Project, Design, Production and Mechanical Properties of Carbon Fiber Reinforced Composite Pressure Vessel Produced by Radial Braiding and Braidtrusion Methods, 2020 - 2021

Eryilmaz O., Project Supported by Other Official Institutions, High Pressure/Fuel Vessel Reinforced with Carbon Fiber Composite Design and Production for Aerospace Applications, 2019 - 2020

Akalm M., Eryilmaz O., Project Supported by Higher Education Institutions, Development of Mechanical Properties of the Composites with Reinforced Carbon Fiber, 2016 - 2018

Eryilmaz O., TUBITAK Project, An Investigation on Mechanical Properties of Epoxy Based Woven Fabrics Carbon Composites, 2017 - 2017

Citations

Total Citations (WOS):6

h-index (WOS):1