

## CURRICULUM VITAE

**Dr. Mahyar MAALI**

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### **Education:**

Ph.D., Department of Civil Engineering, Ataturk University, Erzurum, TURKIYE, 2016.

M.Sc., Department of Civil Engineering, Islamic Azad University, Maragheh, IRAN, 2011.

B.Sc., Department of Civil Engineering, Islamic Azad, Maragheh, IRAN, 2008.

### **Research summary:**

- Steel Structures
- Structural Steel Design
- Behavior of Steel Connections,
- Numerical Methods and Finite Elements
- Plates and Shells
- Structural Stability

### **Awards and Memberships:**

- **Best Paper Award**, Experimental Behaviour of Screwed Beam-to-Column Connections in Cold-Formed Steel Frames, structure engineering and construction 26-28 July 2017. Malaysia.
- **Yayın Yüksek Onur Belgesi**. Atatürk Üniversitesi, Fen Bilimleri Enstitüsü Müdürlüğü, 01.11.2016
- Scholarship from Scientific and Tech. Research Council (**TUBITAK-2215**), TURKIYE, 2014-2016,
- Member of Construction Engineering Organization of IRAN, 2008-2012
- **1<sup>st</sup> top student** in MSc of Islamic Azad University, Maragheh Branch among 30 students, 2011
- **2<sup>nd</sup> top student** in BSc of Islamic Azad University, Maragheh Branch among 100 students, 2008

### **Work Experience:**

2013- Present, Project Consultant & Technical Chief at Gencler Metal Company, Erzurum, TURKIYE

2005-2012, Manager at Bavanal Azar Company, Maragheh, IRAN

### **Publications:**

#### **Published Papers (SCI-SCI Expanded):**

1. **Maali M**, Kılıç M, Yaman Z, Açıkcakoca E, Aydın A.C, “Buckling and Post-Buckling Behavior of Various Dented Cylindrical Shells Using CFRP Strips Subjected to Uniform External Pressure: Comparison of Theoretical and Experimental Data”, Thin Walled Structures, 137, 29-39, 2019.
2. **Maali M**, Aydın AC, Showkati H, Sağıroğlu M, Kılıç M,, “The Effect of Longitudinal Imperfections on The Thin-Walled Conical Shells”, Journal of Building Engineering, 20, 424-441, 2018.

3. **Maali, M.**, Sagiroglu, M., and Solak M.S., "Experimental Behaviour of Screwed Beam-to-Column Connections in Cold-Formed Steel Frames", *Arabian Journal of Geosciences*, 11(9), 205, 2018.
4. Sagiroglu, M., **Maali, M.**, Kılıç, M. and Aydın, A.C., "A Novel Approach for Bolted T-Stub Connections", *International Journal of Steel Structures*, 18(3), 891-909, 2018.
5. **Maali, M.**, Kılıç, M., Sagiroglu, M. and Aydın, A.C., "Experimental Model for Predicting the Semi-Rigid Connections' Behaviour with Angles and Stiffeners", *Advances in Structural Engineering*, 2017, 20(6), 884-895.
6. **Maali, M.**, Kılıç, M. and Aydın, A.C., "Experimental Model of the Behaviour of Bolted Angles Connections with Stiffeners", *Int. Journal of Steel Structures*, 16(3):1-15, 2016.
7. **Maali, M.**, Aydın, A.C. and Sagiroglu, M., "Investigation of innovative steel runway beam in industrial building", *Microsilica SADHANA Academy Proceedings in Engineering Sciences*, 40, October 2015, 2239-2251.
8. Aydın, A.C., **Maali, M.**, Kılıç, M. and Sagiroglu, M., "Experimental Investigation of Sinus Beams with End-Plate Connections", *Thin-Walled Structures*, 97, December 2015, 35-43.
9. Aydın, A.C., Kılıç, M., **Maali, M.** and Sagiroglu, M., "Experimental Assessment of the Semi-Rigid Connections Behavior with Angles and Stiffeners", *Journal of Constructional Steel Research*, 114, November 2015, 338-348.
10. Niloufari, A., Showkati, H., **Maali, M.** and Fatemi, S.M., "Experimental Investigation on the Effect of Geometric Imperfections on the Buckling and Post-Buckling Behavior of Steel Tanks under Hydrostatic Pressure ", *Thin-Walled Structures*, 74, 2014, 59-69.
11. Fatemi, S.M., Showkati, H. and **Maali, M.**, "Experiments on Imperfect Cylindrical Shells under uniform External Pressure ", *Thin-Walled Structures*, 65, 2013, 14-25.
12. **Maali, M.**, Showkati, H. and Fatemi, S.M., "Investigation of the Buckling Behavior of Conical Shells under Weld-induced Imperfections", *Thin-Walled Structures*, 57, 2012, 13-24.

#### **International journal paper**

1. **Maali, M.**, Kılıç, M., Sağıroğlu, M. and Aydın, A.C., "Experimental behavior of bolted T-Stub connections with IPE standard profile", *Journal of civil and environmental engineering*, 8:2, 1-8, 2018.
2. **Maali, M.**, Aydın, A.C., Showkati, H., Fatemi, S.M., Sagiroglu, M., "Longitudinal imperfections on thin walled cylindrical shells", *Journal of civil and environmental engineering*, 8:2, 1-10, 2018.
3. Sağıroğlu, M., **Maali, M.** and Aydın, A.C., "Installation and Maintenance Principles of seismic Isolators: Erzurum Health Campus", *The Open Civil Engineering Journal*, 12, 83-95, 2018.
4. **Maali, M.**, Sağıroğlu, M., Kılıç, M. and Aydın, A.C., "Investigation of moment resistance characteristic of bolted semi-rigid connections: An experimental study", *International Journal of Engineering Research in Mechanical and Civil Engineering (IJERMCE)*, 2(12), 85-88, 2017.

#### **National Papers:**

1. **Maali, M.**, “Dikey berkitmeli alın levhalı kiriş-kolon birleşimlerinin davranışının deneysel olarak incelenmesi”, Gümüşhane Üniversitesi Fen Bilimleri Enstitüsü Dergisi, 8(2), 255-263, 2018.
2. Aydın, A.C., Kılıç, M., **Maali, M.** and Sagirolu, M., "Alt ve Üst Korniyerlerli Yarı-Rijit Birleşimlerde Kaynak Boyu Etkisi", Işık Üniversitesi Fen Bilimleri Enstitüsü Dergisi, 5(4), 41-55, 2015.

#### **International Conference:**

1. **Maali, M.**, Sagirolu, M., “Determination of failure modes of screwed connections in cold-formed steel structures”, 20th International Conference on Civil and Construction Engineering, 12(4), 12-13 April 2018, Venice, Italy.
2. **Maali, M.**, Sagirolu, M. Kılıç, M. and Aydın, A.C., “Experimental study on post-fire mechanical properties of S235 steel”, 20th international conference on civil and construction engineering, April, 12-13, 2018, Venice, Italy.
3. **Maali, M.**, Sagirolu, M. Kılıç, M. and Aydın, A.C., “Investigation of moment resistance characteristic of bolted semi-rigid connections: An experimental study”, International Conference on Civil and Structural Engineering (ICCSE-17) 30th Dec - 31st Dec' 2017, Doha.
4. **Maali, M.**, Sagirolu, M., Kılıç, M. and Aydın A.C., “An experimental study of the capacity of top and seat T connections with stiffeners”, 3rd World Congress and Exhibition on Construction and Steel Structure (Steel Structure 2017), October 16-18, 2017, Atlanta, USA.
5. **Maali, M.**, Sagirolu, M. and Solak, M. S., “Experimental Behaviour of Screwed Beam-to-Column Connections in Cold-Formed Steel Frames”, Global Civil Engineering Conference (GCEC2017), July 2017, Malaysia.
6. M., Sagirolu. Kılıç, M., **Maali, M.**, and Aydın, A.C ,Behaviour of Bolted Connection with T-Shaped Element and Seat Angle, Global Civil Engineering Conference (GCEC2017), July 2017, Malaysia.
7. Aydın, A.C., **Maali, M.**, Kılıç, M., and Sagirolu, M., “Experimental Model of the Behaviour of Bolted Angles Connections with Stiffeners”, 18th International Conference on Construction and Civil Engineering, 29-30 September 2016, London, England.
8. **Maali, M.**, Kılıç, M., Sagirolu, M. and Aydın, A.C., “Behavior of the Moment-Rotation Curves of Bolted T-Stub Connections”, 41<sup>st</sup> IAHS World Congress-Sustainability and Innovation for the Future, 13-16 September 2016, Albufeira, Algarve, Portugal.
9. Aydın, A.C., Sagirolu, M., **Maali, M.** and Kilic, M., “Experimental Investigation of Moment-Rotation Curve of End-Plate Connection with Sinus Beam”, Steel Structure-2015 Conference, 16-18 November 2015, Dubai.
10. Aydın, A.C., Kılıç, M., **Maali, M.** and Sagirolu, M., “An Experimental Study on the Moment-Rotation of Bolted Beam-Column Connection”, Third International Conference on Advances in Civil, Structural and Environmental Engineering - ACSEE 2015, 10-11 October 2015, Zurich, Switzerland.

#### **Book chapter**

1. **Maali, M.**, Sagirolu, M., and Solak M.S., “Experimental Behaviour of Screwed Beam-to-Column Connections in Cold-Formed Steel Frames”, Lecture Notes in Civil Engineering, GCEC2017 Proceedings of the 1st Global Civil Engineering

### **Scientific Projects:**

1. “Yarı-Rijit Birleřimlerde Moment-Dönme Davranıřlarının Deneysel ve Sayısal İncelenmesi”, Atatürk Üniversitesi-BAP 2015-125, Bursiyer, “55506,23 bütçeli”, 01.05.2015-05.04.2017
2. “Berkitmeli ve Korniyerli Birleřimlerde Moment-Dönme Eřrilerinin Deneysel Belirlenmesi”, Atatürk Üniversitesi-BAP 2015-126, Bursiyer, “15000 bütçeli”, 23.06.2015-23.05.2016.
3. “Yarı-Rijit T ve Alt Korniyerli Birleřimlerde Moment-Dönme Eřrilerin Davranıřlarının Deneysel İncelenmesi”, Atatürk Üniversitesi-BAP 2015-124, Bursiyer, “15000 bütçeli”, 12.04.2015-20.05.2016.
4. “Kiriřin Kolon Gövdesinde Birleřtirildiři Korniyerli Birleřim Davranıřlarının Belirlenmesi”, Atatürk Üniversitesi-BAP 2014-075, Bursiyer, “15000 bütçeli”, 10.07.2014-10.07.2015.
5. “Kiriřin Kolon Gövdesine Birleřtirildiři T Birleřimler için Moment Dönme Özelliklerinin Belirlenmesi”, Atatürk Üniversitesi-BAP 2014-076, Bursiyer, “10000 bütçeli”, 10.07.2014-10.07.2015.

### **Research Experience:**

**Ph.D. Thesis** at Atatürk University, Erzurum, Turkey, 2016

Experimental and Numerical Investigation of Moment-Rotation Behaviour on Semi-Rigid Connections

**Master Thesis** at Islamic Azad University, Maragheh Branch, Iran, 2011.

Experimental Evidence of Geometrical Imperfections Influence on Conical Shells Buckling and Post Buckling Behavior, under Combined Loading

**Bachelor Project** at Islamic Azad University, Maragheh Branch, Iran, 2008.

The nine-story reinforced concrete building design - Reinforced concrete

**Bachelor Project** at Islamic Azad University, Maragheh Branch, Iran, 2008.

The three-story steel hospital building design- Steel structures

**Bachelor Project** at Islamic Azad University, Maragheh Branch, Iran, 2008.

The design of the road between two supposed points- Road construction

### **Skills:**

Software: ABAQUS, ANSYS, Sap2000, AutoCAD, ETABS, TEKLA Structures, Sketch up.