

Ali Güney Özcebe

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e-mail aliguney.ozcebe@unipv.it, aliguney.ozcebe@polimi.it
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Occupation Post-doctoral research associate at University of Pavia
Lecturer at Politecnico di Milano

1. Education

2009 – 2013 Doctor of Philosophy in Earthquake Engineering

UME School-ROSE Program (IUSS), Pavia

Thesis Title Seismic stabilization of slopes with large diameter piles

Supervisor Prof. Carlo G. Lai

2007 – 2009 Master of Science in Civil Engineering

Middle East Technical University (METU), Ankara

Thesis Title A comparative assessment of available methods for seismic performance evaluation of buried structures

Supervisor Prof. Kemal Önder Çetin

2003 – 2007 Bachelor of Science in Civil Engineering

Middle East Technical University (METU), Ankara

2. Career summary

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|----------------------------------------------|--------------------------------------------------------------------------------------------|-------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>from</i> Sept 2007 <i>to</i> July 2009 | Temelsu Int. Eng. Serv. Inc. www.temelsu.com.tr | Junior Structural Engineer | <ul style="list-style-type: none">Analysis and anti-seismic design of various types of bridges |
| <i>from</i> Feb 2014 <i>to</i> Jan 2017 | DICA, Politecnico di Milano www.polimi.it | Research Associate and Teaching Assistant | <ul style="list-style-type: none">Various seismic soil-structure interaction problems,Ground motion selection and spectral matching,Effects of spatial variability of simulated ground motion on an engineering structure,Applications of linear viscoelasticity on unconventional geophysical field tests,Academic co-advising at MSc levelTeaching assistant role for various graduate coursesInvolvement in few national and international level consultancy activities |
| <i>from</i> Feb 2017 <i>to</i> NOW | DICAr, University of Pavia www.unipv.eu | Research Associate and Teaching Assistant | <ul style="list-style-type: none">Numerical modelling of soil liquefactionEffects of spatial variability of recorded ground motion on a real-like engineering structure,Physics-based ground motion simulation for a case study: NorciaDevelopment and testing of 1D causal site response analysisAcademic co-advising for various MSc students,Teaching assistant role for graduate level coursesInvolvement in a national/international consultancy activities |

3. Publications

In International Journals

1. Dhar S, Özcebe AG, Dasgupta K, Petrini L, Paolucci R [2019]. Different approaches for numerical modeling of seismic soil-structure interaction: impacts on impacts on the seismic response of a simplified reinforced concrete integral bridge. Earthquakes and Structures (accepted manuscript).
2. Özcebe AG, Smerzini C, Bhanu V [2018]. Insights into the effect of spatial variability of recorded earthquake ground motion on the response of a bridge structure. Journal of Earthquake Engineering, doi: <https://doi.org/10.1080/13632469.2018.1453412>
3. Paolucci R, Gatti F, Infantino M, Smerzini C, Özcebe AG, Stupazzini M [2018]. Broad-band ground motions from 3D physics-based numerical simulations using Artificial Neural Networks. Bulletin of Seismological Society of America (108, 3A): 1272-1286.
4. Özcebe AG, Paolucci R, Mariani S [2017]. Numerical modeling of the interaction of pressurized large diameter gas buried pipelines with normal fault ruptures. Soil Dynamics and Earthquake Engineering (101): 105-115.
5. Lai CG, Özcebe AG [2016]. Non-conventional lab and field methods for measuring frequency-dependent low-strain parameters of soil dynamic behaviour. Soil Dynamics and Earthquake Engineering (91):73-86.

Book Chapters

1. Paolucci R, Infantino M, Mazzieri I, Özcebe AG, Smerzini C, Stupazzini M [2018]. 3D Physics-based numerical simulations: advantages and current limitations of a new frontier to earthquake ground motion prediction. The Istanbul case study. In: Pitilakis K. (ed.) Recent Advances in Earthquake Engineering in Europe: 16th European Conference on Earthquake Engineering, Thessaloniki 2018. Springer International Publishing.
2. Lai CG, Özcebe AG [2016]. Causal Damping Ratio Spectra and Dispersion Functions in Geomaterials from the Exact Solution of Kramers-Kronig Equations of Viscoelasticity. In: Albers B., Kuczma M. (eds) Continuous Media with Microstructure 2. Springer, Cham.

In International Conferences

1. Lai CG, Conca D, Famà A, Özcebe AG, Zuccolo E, Bozzoni F, Meisina C, Boni R, Poggi V, Cosentini RM [2019]. Mapping the liquefaction hazard at different geographical scales. 7th International Conference on Earthquake Geotechnical Engineering (7ICEGE), Roma.
2. Özcebe AG, Smerzini C, Paolucci R, Pourshayegan H, Rodriguez Plata R, Lai CG, Zuccolo E, Bozzoni F [2019]. On the comparison of 3D, 2D, and 1D numerical approaches to predict seismic site amplification: the case of Norcia Basin during the M6.5 2016 October 30 earthquake. 7th International Conference on Earthquake Geotechnical Engineering (7ICEGE), Roma.
3. Rodriguez Plata R, Smerzini C, Özcebe AG, Lai CG, Zuccolo E, Bozzoni F [2019]. A comparative study on time domain 1D/2D seismic ground response analysis of Norcia Basin during the M6.5 2016 October 30 earthquake. 7th International Conference on Earthquake Geotechnical Engineering (7ICEGE), Roma.
4. Bhanu V, Özcebe AG, Smerzini C [2018]. A study on vertical component of earthquake ground motion and its effects on a bridge. 16th European Conference on Earthquake Engineering (16ECEE), Thessaloniki.
5. Chiaradonna A, Özcebe AG, Bozzoni F, Fama A, Zuccolo E, Lai CG, Flora A, Cosentini RM, D'Onofrio A, Bilotta E, Silvestri F [2018]. Numerical simulation of soil liquefaction during the 20 May 2012 M6.1 Emilia Earthquake in Northern Italy: the case study of Pieve di Cento. 16th European Conference on Earthquake Engineering (16ECEE), Thessaloniki.

6. Stupazzini M, Infantino M, Allmann A, Kaser M, Mazzieri I, Özcebe AG, Paolucci R, Smerzini C [2016]. Near-fault earthquake ground-motion simulation in the Istanbul Area. 5th IASPEI/IAEE International Symposium: Effects of Surface Geology on Seismic Motion, Taipei.
7. Dhar S, Özcebe AG, Dasgupta K, Dey A, Paolucci R, Petrini L [2016]. Nonlinear dynamic soil-structure interaction effects on the seismic response of a pile-supported integral bridge structure. Sixth International Conference on Recent Advances in Geotechnical Earthquake Engineering and Soil Dynamics, Greater Noida, India.
8. Özcebe AG, Paolucci R, Mariani S, Santoro D [2015]. A numerical study of the pressurized gas pipeline-normal fault interaction problem. 6th International Conference on Earthquake Geotechnical Engineering (6ICEGE), Christchurch, New Zealand.
9. Stupazzini M, Allmann A, Käser M, Mazzieri I, Özcebe AG, Paolucci R, Smerzini C [2015]. PSHAE (probabilistic seismic hazard analysis enhanced): the case study of Istanbul. 10th Pacific Conference on Earthquake Engineering, Sydney, Australia.
10. Özcebe AG, Lai CG, Martinelli M [2014]. Performance based stabilization of seismically unstable slopes by large diameter piles. Second European Conference on Earthquake Engineering and Engineering Seismology (2ECEES), Istanbul.
11. Özcebe AG, Lai CG, Fioravante V, Giretti D, Prearo C [2012]. Numerical and physical modeling of slope stabilization with large diameter shafts. 15th World Conference on Earthquake Engineering (15WCEE), Lisboa.
12. Özcebe AG, Çetin KÖ [2012]. A complete simplified framework in determination of seismic racking response of shallow buried structures, 15th World Conference on Earthquake Engineering (15WCEE), Lisboa.
13. Lai CG, Özcebe AG [2012]. In-situ measurement of damping ratio spectra from the inversion of phase velocities of P and S waves in cross-hole seismic testing. Advances in Transportation Geotechnics 2: 116.

4. National and international projects

1. **H2020 TURNkey (ongoing).**
2. **SIGMA-2.** Seismic Ground Motion Assessment project (**ongoing**).
3. **DPC-ReLUIS 2016 Research Project RS2.** Numerical simulations of earthquakes and near-source effects (**completed**).
4. **H2020 LiqueFACT (in WP2 and WP4) (completed).**
5. **DPC Progetto Esecutivo 2009-2012 e6 (completed).**

5. Co-supervised M.Sc. students

1. **Mr. Kasra Majdanishabestari [2019].** Lateral response of single and group of fixed head piles, Politecnico di Milano.
Advisors: Prof. Roberto Paolucci, Dr. Ali Güney Özcebe, Ing. Bruno Becci
2. **Mr. Samsul Hug Kaja Maideen [2019].** Using fully-coupled constitutive models in the assessment of seismic soil liquefaction, Politecnico di Milano.
Advisors: Prof. Roberto Paolucci, Prof. Carlo G. Lai, Dr. Ali Güney Özcebe
3. **Mr. Sheng Guo [2019].** Filling the gap between engineering seismology and earthquake structural engineering: seismic analysis of an existing viaduct in Turkey using the results of 3D physics-based earthquake simulations, Politecnico di Milano.
Advisors: Prof. Roberto Paolucci, Dr. Ali Güney Özcebe, Dr. Chiara Smerzini

4. **Mr. Ricardo Rodriguez Plata [2018]**. Comparison of 2D and 1D numerical simulations for the evaluation of seismic site effects in sedimentary basins: the case of Norcia basin, Central Italy, Politecnico di Milano.
Advisors: Dr. Chiara Smerzini, Prof. Carlo G. Lai, Dr. Ali Güney Özcebe
5. **Mr. Raul Hernan Molena Montoya [2018]**. Assessment of liquefaction triggering through in-situ methods: CPT, SPT, and Vs, Politecnico di Milano.
Advisors: Prof. Roberto Paolucci, Prof. Carlo G. Lai, Dr. Ali Güney Özcebe
6. **Mr. Vishvendra Bhanu [2017]**. Effect of Vertical Component and Spatial Variability of Earthquake Ground Motion on a Bridge Structure, Politecnico di Milano.
Advisors: Dr. Chiara Smerzini, Dr. Ali Güney Özcebe
7. **Mr. Alejandro Molina Gonzales [2016]**. Analysis of the “Via D’Annunzio 24/26” building collapse during L’Aquila Earthquake 6 April 2009, Politecnico di Milano.
Advisors: Prof. Maria Gabriella Mulas, Dr. Ali Güney Özcebe
8. **Mr. Andrea Barri [2015]**. Sviluppo di un software per la selezione e la scalatura di accelogrammi reali spettro-compatibili, Politecnico di Milano.
Advisors: Prof. Roberto Paolucci, Dr. Ali Güney Özcebe

6. Teaching experience

1. **Lecturer of Risk Based Design (ongoing)**
Graduate Level Course, Politecnico di Milano
Language: English
Academic Year: 2019/2020
2. **Teaching Assistant of Buildings in Seismic Areas (6 times)**
Graduate Level Course, Politecnico di Milano
Language: English
Academic Years: 2013/2014, 2014/2015, 2015/2016, 2016/2017, 2017/2018, 2018/2019
Lecturer: Prof. Roberto Paolucci
3. **Teaching Assistant of Earthquake Geotechnical Engineering (2 times)**
Graduate Level Course, UME School
Language: English
Academic Years: 2012/2013, 2014/2015
Lecturers: Prof. Misko Cubrinovski and Prof. Carlo G. Lai
4. **Teaching Assistant of Geotechnical Earthquake Engineering (1 time)**
Graduate Level Course, IUSS Pavia and University of Pavia
Language: English
Academic Years: 2017/2018
Lecturers: Prof. Carlo G. Lai
5. **Teaching Assistant of Seismic Design of Foundation Systems (1 time)**
Graduate Level Course, UME School
Language: English
Academic Year: 2012/2013
Lecturer: Prof. Alain Pecker
6. **Tutor of Geotecnica (1 time)**
Undergraduate Level Course, University of Pavia
Language: Italian
Academic Year: 2018/2019
Lecturer: Prof. Carlo G. Lai

7. Languages

1. **Turkish:** Mother tongue
2. **English:** Working proficiency
3. **Italian:** Communication proficiency

8. Honours and awards

1. IUSS Doctoral scholar holder during PhD studies
2. TUBITAK Scholar during M.Sc. studies
3. Honour student at undergraduate level (standing=7/200)

I authorize the processing of data pursuant to the GDPR 2016/679 of 27 April 2016 (European Regulation concerning the protection of individuals regarding the processing of personal data).

I authorize the publication of the Curriculum Vitae on the institutional site of the Politecnico di Milano (Section Transparent Administration) in compliance with Legislative Decree no. 33 of 14 March 2013 (and s.m.i.).

Ali Güney Özcebe
Pavia, 16 October 2019

