

Abolfazl (Abe) Eslami

Ph.D., M. ASCE, Professor and Private Consultant

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Located in Coto de Caza, CA

[Personal Website](#)

[Google Scholar](#)

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1- EDUCATION

Ph.D., (1992-1997), Geotechnical Engineering, University of Ottawa, Ottawa, Canada

M.Sc., (1986-1988), Geotechnical Engineering, Tehran Polytechnic (AUT), Tehran, Iran

B.Sc., (1982-1985), *Graduated*; Civil Engineering, Sharif University of Technology (SUT), Tehran, Iran

B.Sc., (1978-1982), *Accepted & Started*; Faculty of Engineering, University of Tehran (UT), Tehran, Iran

2- CAREER HISTORY

Professor, Amirkabir University of Technology (AUT), 2007-2024, [Link](#)

Assistant & Associate Professor, Civil Engineering Department, University of Guilan, 1997-2007

Founder & Chairman, Sham-e Consulting Engineering Co. Tehran, Iran, 2000-present

3- VISITING SCHOLAR & FELLOWSHIP

- Civil Engineering Department, University of British Columbia (UBC), Canada, 1994
- Faculty of Mining Engineering, McGill University, Canada, 2017-2018
- Structural Engineering Department, University of California, San Diego (UCSD), USA, 2022-2023
- Civil Engineering Department, University of Nevada, Las Vegas (UNLV), USA, 2021-2024

4- PROFESSIONAL EXPERTIZE

- **Geotechnical Investigation & Reporting:** Dozens of Tall Buildings, Highways, Airports & Dams
- **Design & Consulting of Geo-Structures:** Foundation Systems, Retaining Walls & Shorings
- **Project Management & Value Engineering:** Industrial Projects & Bridges
- **Ground Improvement & Slope Stability Control:** Industrial, Residential & Transportation Fields
- **Leveling, Repair & Retrofitting** of Damaged Adjacent Buildings
- **Value Engineering:** Optimization of Designed Foundations and Reuse of Existing Foundations
- **Sustainable Geotechnics:** Trending on less artificial, more geomaterial and C&DWs recycling
- **Workshops:** In-situ Testing, Special Foundation Systems, Ground Engineering & Sustainable Geo-structures

5- RESEARCH

A. Supervised Graduate Students; Over 150 M.Sc. and More than 25 Ph.D. theses

B. Journal Papers: Over 140 scientific and research papers, particularly published in esteemed Journals: *Deep Foundations Institute, DFI* (1995, 2023), *Canadian Geotechnical Journal, CGJ* (1997, 2011), *Computers & Geotechnics, COMGEO* (2009, 2023, 2024), *Bulletin of Earthquake Engineering, BEE* (2015), *International Journal of Geomechanics, ASCE* (2015, 2020, 2024), *Rock Mechanics & Geotechnical Engineering* (2017, 2018, 2024), *Soil Dynamics & Earthquake Engineering, SDEE* (2017, 2024, 2025), *Soft Computing* (2022), *Ocean Engineering, OE* (2023, 2024), *Geotechnique* (2024)

C. International & National Conference Papers: About 100

D. Inventions/Patents

- Attached Single Foundations, 2004
- Frustum Confining Vessel (FCV-AUT), Large-scale, 2014
- Inclined Retaining Wall, 2016
- Upgrading 1g apparatus for adjacent foundations study along with image processing, 2023

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6- SHORT COURSES & WORKSHOPS

- “CPT & CPTu Application for Deep Foundations Geotechnical Design; Databased Approach”, 2025, Louisville, USA, Geotechnical Frontiers, held by Geo-Institute of ASCE
- “Geotechnical & Foundation Engineering Aspects for Adjacent Construction”, 2024, Sari, Mazandaran
- “Buildings Foundation System; Engineering Patterns Trend Sustainable Development”, 2024, Rasht, Guilan
- “Cone Penetration Tests (CPT & CPTu) Records for Deep Foundations Geotechnical Design”, 2023, University of California, San Diego (UCSD), USA
- “CPT & CPTu Applications in Foundation Engineering”, 2022, University of Mining and Technology, China
- “CPT & CPTu Applications in Geotechnical Engineering”, 2022, State Key Laboratory for Geomechanics & Deep Underground Engineering, China
- “Development and Application of Databases in Deep Foundation Engineering”, 2019, held by IGS

7- KEYNOTE & INVITED LECTURES

- “Insight on Foundation Systems Categorization; Form & Load Transfer Aspects”, 2023, 13th International Congress on Civil Engineering, University of Science and Technology
- “Databased Approach for CPT & CPTu Applications in Foundation Engineering”, 2023, Samueli School of Engineering, University of California, Irvine (UCI), USA
- “Foundations Systems of Tall Buildings: Stories Behind the Storeys”, 2022, Babolsar, Mazandaran.
- “Uncertainty & Reliability Appraisal of CPT Based Methods for Piles”, DFI 46th, 2021, LV, USA
- “In-situ Tests Applications in Civil Engineering”, 2020, University of Kurdistan.
- “Physical Modelling via FCV-AUT”, 2018, University of Victoria, BC, Canada.
- “AUT; Geo-CPT & Pile Database”, 2017, Montreal Polytechnic, QC, Canada.
- “CPT and CPTu Applications for Piles”, 2017, McGill University, QC, Canada.

8- TAUGHT COURSES

- Soil Mechanics and Geotechnical Engineering
- Foundation Engineering & Advanced Foundation Engineering
- Applied Geotechnics
- Ground Modification and Soil Improvement
- In-situ Testing Applications in Geotechnical Engineering
- Marine Geotechnical Engineering & Deep Foundations for Marine Structures

9- HONORS & AWARDS

- Citation based on Google Scholar: 3780 cites with an H-Index of 33. [Link](#).
- Selected as the superior composer of Latin books in AUT, 2019.
- Compiled and outsourced AUT-Geo: CPT & Pile Database, 2016. [Link](#).
- Award for Lifetime Achievement in Civil Engineering, Lasting Fame National Foundation, 2015.
- First rank on paper presentation events, The Canadian Geotechnical Society (CGS), 1996.

10- PUBLISHED BOOKS

- 1- Karakouzian, M. & Eslami, A. 2025. *Advanced Foundation Engineering, Principles, Performance and Prospect*, Wiley (Under Publication)
- 2- Eslami, A. et al., 2020. *Piezocone and Cone Penetration Test (CPTu and CPT) Applications in Foundation Engineering*, ELSEVIER.
- 3- Eslami, A., 2005. *Foundation Engineering: Design & Construction*. Building and Housing Research Center, BHRC. No. B-437, 4th Edition (In Persian).
- 4- Fellenius, B. H., Infante, J. L. & Eslami, A., 2002. “UniCone Software” for Processing and Reporting of Cone Penetration Tests (CPT and CPTu), Soil Profiling, and Pile Capacity Analysis.

11- PROFESSIONAL AFFILIATIONS

- DFI (Deep Foundation Institute), USA
- ASCE (American Society of Civil Engineers) & GI (Geo-Institute)