

Chair of Structural Mechanics & Monitoring
 Institute of Structural Engineering (IBK)
 Department of Civil, Environmental and Geomatic
 Engineering (D-BAUG)
 Swiss Federal Institute of Technology (ETHZ)

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PERSONAL INFORMATION

Name: Eleni Chatzi Date of birth: 18.11.1981 (Athens, Greece) Nationality: Greek
 Google Scholar: <https://scholar.google.com/citations?user=2n9Mwt8AAAAJ&hl=en>
 ORCID: orcid.org/0000-0002-6870-240X

EDUCATION

2010 **Doctor of Philosophy (Ph.D.)**, Civil Engineering & Engineering Mechanics, Columbia University
2008 **Master of Philosophy (M.Phil)**, Civil Engineering & Engineering Mechanics, Columbia University
2006 **Master of Science (M.Sc.)**, Civil Engineering, National Technical University of Athens (NTUA)
2004 **Diploma Degree**, Civil Engineering of the National Technical University of Athens (NTUA)

EMPLOYMENT HISTORY INCLUDING CURRENT POSITIONS¹

2024- **ETH Zürich, Institute of Structural Eng., Full Professor – Chair of Structural Mechanics & Monitoring**
Teaching in the Civil Engineering Section: Theory of Structures (BSc) □ Finite Element methods I (MSc) □
 Finite Element methods II (MSc) □ Identification methods for Structural Systems (MSc) □ Non-Destructive
 Evaluation & Rehabilitation of Existing Structures
Research in the field of Data-driven Assessment of Engineered Systems with special interests in:
 Identification and Control of Nonlinear Structural Systems □ Structural Health Monitoring, Life Cycle
 Assessment, and Damage Detection □ Smart Sensor Technology, Smart Materials and Structures

2017-2024 **ETH Zürich, Inst. of Structural Eng., Associate Professor – Chair of Structural Mechanics & Monitoring**
2010-2017 **ETH Zürich, Inst. of Structural Engineering, Assistant Professor – Chair of Structural Mechanics**

INSTITUTIONAL RESPONSIBILITIES

since 2020 D-BAUG Department Delegate, ETH Zurich
 since 2012 Member of numerous ETH Committees and Bodies, including Competence Center for Materials and
 Processes (MaP), ETH Mobility Initiative, Energy Science Center, Partnership Council for Sustainable
 Construction, ETH-Women Professors Forum (ETH-WPF)

SELECTED APPROVED RESEARCH PROJECTS

- **Future Resilient Systems** - Module Leader of Dynamic Mobile Sensing Platform & Principal Investigator of Automated Hazard Detection for Social Resilience
- **SNSF Bridge Discovery project - AeroSense**: a novel MEMS-based surface pressure and acoustic IoT measurement system for wind turbines, collaboration with HSR
- **H2020-SC5-2018-2019-2020, SC5-17-2018 RIA Grant**, RISE: Real-time Earthquake Risk Reduction for a Resilient Europe, Swiss PIs: S. Wiemer, E. Chatzi, B. Stojadinovic
- **ITN Training Network**, H2020-MSCA-ITN-2018, INSPIRE: Innovative Ground Interface Concepts for Structure Protection, Swiss PIs: Prof. E. Chatzi, Prof. B. Stojadinovic
- **ETH Mobility Initiative Grant**, On board Monitoring for Integrated Systems Understanding & Management Improvement in Railways (OMISM), in collaboration with Prof. Corman and the SBB
- **ERC Proof of Concept (PoC) Grant**, ERC-2018-PoC WINDMIL RT-DT, An autonomous Real-Time Decision Tree framework for monitoring and diagnostics on wind turbines
- **ETH Research Grant**, Forschungsgesuch ETH-11 18-1, “Enabling Dynamic Earthquake Risk Assessment (DynaRisk)”, planned start date: 01.10.2018
- **H2020-MG-2016-2017 Grant**, FORESEE, Future proofing strategies FOr RESilient transport networks against

¹full CV and publication list found in: https://ethz.ch/content/dam/ethz/special-interest/baug/ibk/structural-mechanics-dam/people/chatzi/Chatzi_CV.pdf

- Extreme Events, MG-7-1-2017 RIA, Swiss PI: Prof B. Adey, E. Chatzi
- **H2020-MSCA-IF-2017 Grant**, SiMAero, Simulation-Driven and On-line Condition Monitoring with Applications to Aerospace, Proposal ID: 795917 Call, Postdoctoral Fellow: Dr. Konstantinos Agathos
- **ITN Training Network**, MSCA-ITN-2017, DyVirt: Dynamic virtualisation: modelling performance of Eng. Structures
- **ERC Starting Grant #679843 WINDMIL** “Smart Monitoring, Inspection and Life-Cycle Assessment of WTs”

SUPERVISION OF JUNIOR RESEARCHERS

PhD: M. Miah, 2015 □ J.P. Escallón, 2015 □ J. Felkner, 2016 □ R. Klis, 2016 □ C. Leyder, 2018 □ Y. Ou, 2018 □ Y.E. Harmanci, 2018 □ H. Martin-Sanz, 2019 □ K. Tatsis, 2021 □ Ch. Mylonas, 2021 □ Mohamadreza Afrasiabi, 2021 □ R. Zaccherini, 2021 □ G. Aguzzi, 2022 □ C. Hoelzl, 2023 □ S. Nicoli, 2024 □ S. Ganzeboom, in progress □ G. Arcieri, in progress □ K. Vlachas, in progress, □ T. Simpson, 2023 □ K. Chondrogiannis, 2024 □ P. Martakis, 2022 □ G. Duthé, in progress □ Y. Marikovski, in progress □ P. Sieber, in progress □ A. Jaffari, in progress □ K. Bacsa, in progress

Postdoc: Dr. M. Spridonakos (2011-2013) □ Dr. S. Triantafyllou (2011-2012) □ Dr. B. Barahona (2016-2018) □ Dr. L.D. Avendano (2016-2018) □ Dr. V. Dertimanis (ongoing) □ Dr. I. Abdallah (ongoing) □ Dr. K. Agathos (2019-2021) □ Dr. Z. Lai (2019-2022) □ Dr. A. Colombi (ongoing) □ Dr. C. Stoura (ongoing) □ Dr. S. Gres (2022-2023) □ Dr. L. Estevez (2022-2023) □ Dr. Y. Reuland (ongoing) □ Dr. M. Haywood-Alexander (ongoing) □ Dr. Xudong Jian (ongoing)

SELECTED JOURNAL EDITORIAL ACTIVITIES

- **Co-editor in Chief**, Data Centric Engineering (Cambridge University Press)
- **Editorial Board Member**, Journal of Sound & Vibration
- **Editorial Board Member**, Structure & Infrastructure Engineering, Taylor & Francis
- **Editorial Board Member**, Mechanical Systems and Signal Processing, Elsevier
- **Associate Editor**, Journal of Engineering Mechanics, ASCE
- **Editorial Board Member**, Archive of Applied Mechanics, Springer

SELECTED ACTIVE MEMBERSHIPS IN SCIENTIFIC SOCIETIES

since 2022 **President**, SWICOMMAS, Swiss Community for Comput. Methods in Applied Science

since 2021 **Member**, Swiss National Research Council, Division IV: Programmes

since 2021 **Vice President**, European Academy of Wind Energy (EAWE)

since 2018 **Chair**, EMI Dynamics Committee of the ASCE

since 2015 **Branch President**, ASCE International Group in Switzerland

SELECTED PRIZES/AWARDS

2024 SHM Person of the Year Award, selected by the editors and associate editors of SHM: An International Journal.

2023 JM Ko Award - recognizing excellence in Structural Engineering research by honoring young individuals at or under the age of 45 who have made outstanding contributions through original research of the highest level of excellence.

2022 Dandelion Award for Entrepreneurship – ETH Zurich

2022 Thorpe Medal, awarded from the European Council on Construction (shared authorship award)

2020 EASD Junior Research Prize in the area of Computational Structural Dynamics, by the EASD

2020 Walter L. Huber Career Prize awarded by the ASCE

2019 TUM-IAS Hans Fischer Fellowship, awarded by the TÜV Süd Foundation

2016 T. Francis Ogilvie Young Investigator Lecture award (MIT).

2015 ERC Starting Grant, ERC-2015-StG #679843, by the European Research Council.

2010 Distinction, Fu Foundation School of Engineering and Applied Science at Columbia University

2009 Mindlin Award, Civil Engineering and Engineering Mechanics in Columbia University

2006 Fulbright Fellow