

**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  
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 ORCID: [orcid.org/0000-0002-6870-240X](https://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 POSITIONS<sup>1</sup>**

**2017-** **ETH Zürich, Institute of Structural Engineering, Associate Professor - Chair of Structural Mechanics**  
*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  
**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

<sup>1</sup> full CV and publication list found in: [https://ethz.ch/content/dam/ethz/special-interest/baug/ibk/structural-mechanics-dam/people/chatzi/Chatzi\\_CV.pdf](https://ethz.ch/content/dam/ethz/special-interest/baug/ibk/structural-mechanics-dam/people/chatzi/Chatzi_CV.pdf)

full publication list: [https://ethz.ch/content/dam/ethz/special-interest/baug/ibk/structural-mechanics-dam/people/chatzi/publications\\_list.pdf](https://ethz.ch/content/dam/ethz/special-interest/baug/ibk/structural-mechanics-dam/people/chatzi/publications_list.pdf)

- **H2020-MG-2016-2017 Grant**, FORESEE, Future proofing strategies FOr RESilient transport networks against 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, defended in 2015 □ J.P. Escallón, defended in 2015 □ J. Felkner, defended in 2016 □ R. Klis, defended in 2016 □ C. Leyder, defended in 2018 □ Y. Ou, in progress □ Y.E. Harmanci, defended in 2018 □ H. Martin-Sanz, defended in 2019 □ K. Tatsis, defended in 2021 □ Ch. Mylonas, defended in 202 □ Mohamadreza Afrasiabi, defended in 2021 □ R. Zaccherini, defended in 2021 □ G. Aguzzi, “Investigation of metamaterials to control the propagation of ground and seismic vibrations in civil structures”, in progress □ C. Hoelzl, “On Board Monitoring for Railway Infrastructure”, in progress □ S. Nicoli, “Enhancement of the XFEM for application on complex geometries”, in progress □ S. Ganzeboom, “Engineering Self-Aware Structures with Living Materials”, in progress □ G. Arcieri, “Monitoring -based Decision Support of Railway Infrastructure”, in progress □ K. Vlachas, “Nonlinear Model Order Reduction”, in progress, □ T. Simpson, “Substructuring as a ROM for Hybrid Simulation”, in progress □ K. Chondorgiannis, “Nonlinear Metamaterial Unit Lattices”, in progress □ P. Martakis, “SHM for Enabling Dynamic Earthquake Risk Assessment”, 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 (ongoing) □ Dr. L. Estevez (ongoing) □ Dr. Y. Reuland (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	<b>President</b> , SWICOMMAS, Swiss Community for Comput. Methods in Applied Science
since 2021	Member of the Swiss National Research Council, Division IV: Programmes
since 2021	<b>Vice President</b> , European Academy of Wind Energy (EAWE)
since 2018	<b>Chair</b> , EMI Dynamics Committee of the ASCE
since 2015	<b>Branch President</b> , ASCE International Group in Switzerland

#### SELECTED PRIZES/AWARDS

2022	Thorpe Medal, awarded from the European Council (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