Simos Gerasimidis

Assistant Professor
University of Massachusetts Amherst
Department of Civil and Environmental Engineering
130 Natural Resources Road, Amherst, MA 01003
917.833.7574 | sgerasimidis@umass.edu | https://sgerasimidis.wixsite.com/mysite

Appointments/Work Experience

2015-present	**Assistant Professor,** University of Massachusetts Amherst, MA, USA
2011-2015	**Post-doctoral Research Fellow,** Columbia University, New York, NY, USA
2007-2011	**Graduate Research Assistant,** Aristotle University of Thessaloniki, Thessaloniki, Greece
2006-2007	**Structural Engineer,** Thornton Tomasetti Engineers, New York, NY, USA
2005-2006	**Graduate Teaching Assistant,** MIT, Cambridge, MA, USA
2003-2004	**Structural Engineer,** Santiago Calatrava SA, Athens, Greece

Education

2011-2015 **Columbia University, NY, USA**
Post-Doctoral Research Fellow in Civil Engineering and Engineering Mechanics
Research Topic: **"Progressive Collapse and Resilience of Structures"**
Advisor: Prof. George Deodatis

2007-2011 **Aristotle University of Thessaloniki, Greece**
Doctor of Philosophy (Ph.D.) in Civil Engineering with honors
Ph.D. Thesis Title: **"Alternate Load Path Methods for Disproportionate Collapse Analysis of Steel Structures via Direct Methods of Plasticity"**
Advisors: Prof. Charalampos Baniotopoulos, Prof. George Deodatis, Prof. Christos Bisbos

2005-2006 **MIT, MA, USA**
Master of Engineering in Civil and Environmental Engineering
Followed the track of High Performance Structures
Individual thesis title: **"Application of knee-bracing system on high-rise buildings"**
Group thesis title: **"Cable-stayed Steel Bridge over the Cape Cod Canal"**
Advisor: Prof. Jerome J. Connor

1999-2005 **Aristotle University of Thessaloniki, Greece**
Diploma, M. Eng., in Civil Engineering specialized in Structural Engineering
Thesis Topic: **"Study of the behavior of the Steel Roof of the Olympic Stadium in Athens because of possible cable failures"**
Advisor: Prof. Charalampos Baniotopoulos

Honors - Awards

2021 **UMass CEE Department Faculty Research Award**

2021 **NSF CAREER Award**
Auxetic Lattice Reinforcing Metamaterial Architectures for a New Class of Concrete Metastructures

2019 **2nd place in the New England Graduate Student Water Symposium Poster Competition**
For the poster of student Bryan Ovelheiro: "Consideration of 3D printed biofilm carriers for wastewater treatment".

2018 **1st place in the Objective Resilience Committee Competition at the EMI:**
For the paper of student Panos Pantidis: "Towards an analytical resilience framework of steel and concrete composite buildings".

2016 **Greek Diaspora Fellowship from the Stavros Niarchos Foundation**
One of the 20 awards for Greek-born scholars to create collaborative engagements between Greek and North American academics ($12k).

2016 **Nominated for Distinguished Teaching Award, University of Massachusetts, Amherst**
Nominated by students for the Campus Wide Distinguished Teaching Award.

2015 **Open Education Initiative Award, University of Massachusetts, Amherst**
Awarded for the graduate class on Structural Stability - CEE549 ($1000).

2011 **Post-Doctoral Scholarship from the Pan-Hellenic Association of Kappadocian Unions and the "Family of Filippos Savvopoulos"**

2010 **IRAKLITOS II PhD Scholarship**
3-year IRAKLITOS II PhD Scholarship from the Greek General Secretariat for Research and Technology

RESEARCH INTERESTS

- **Architected Metamaterials:** Lightweight and high-strength and stiffness nano- and micro-lattice architected mechanical metamaterials. Architected metamaterials for metastructures. New Auxetically Boosted Concrete (ABC) using metal auxetic lattice architectures embedded into concrete. 3D printed architected micro-lattices for biofilm matrices and improved wastewater treatment. *Funded by NSF, UMass Institute of Applied Life Sciences, Massachusetts Technology Transfer Center.*
- **Stability of Thin Shells:** Imperfection sensitivity and residual stresses effects on cylindrical shells buckling. Establishing new knock-down factors for cylindrical shells. New non-destructive prediction techniques for cylindrical shell buckling. Stability of spiral welded wind turbine towers. *Funded by UMass Amherst, DOE - SBIR - Pecos Engineering.*
- **Aging Infrastructure and additive repair:** Experiments of naturally corroded steel beams from real bridges. New inspection procedures using LiDar and Unmanned Air Systems (UAS). New load rating procedures of steel bridges with deteriorated steel beam ends. New metal additive repair technologies.*Funded by the Massachusetts Department of Transportation.*
- **Resilience of Structures and Structural Robustness:** Post-event condition of tunnel structures through visual observations and non-destructive tools. New chart/checklist for post-event inspections. Progressive collapse of buildings. *Funded by the Massachusetts Department of Transportation.*

Funded Projects

Total as a PI:	$1,759,614
Total as a co-PI:	$275,210
Total:	$2,034,824

Externally Funded Projects

2021 **NSF CAREER: Auxetic Lattice Reinforcing Metamaterial Architectures for a New Class of Concrete Metastructures**
National Science Foundation (NSF), $547,870
PI: S. Gerasimidis

2021 **Revised Load Rating Procedures for Deteriorated Prestressed Concrete Beams**
Massachusetts Department of Transportation (MassDOT), $199,210
PI: S. Breña, co-PIs: **S. Gerasimidis**, S. Civjan, J. Boakye

2021 **Post-fire damage inspection of concrete structures Phase II – Experimental phase**
Massachusetts Department of Transportation (MassDOT), $160,000
PI: S. Gerasimidis, co-PI: S. Civjan

2020 **Workshop on Metamaterials and Metastructures for Civil Infrastructure**
National Science Foundation (NSF), $97,236
PI: S. Gerasimidis, co-PI: J. Guest (Johns Hopkins), G. Paulino (Princeton)

2020 **Tilt-up tower and installation system to reduce the cost of distribute wind turbines**
Pecos Wind Power (DOW-SBIR), $199,343 (UMass sub-award $61,000)
PI: S. Arwade, co-PIs: **S. Gerasimidis**, M. Lackner

2020 **Improved load rating procedures for deteriorated unstiffened steel beam ends in New England**
New England Transportation Consortium (NETC), $220,000
PI: S. Gerasimidis, co-PI: S. Breña

2020 **Post-fire damage inspection for concrete structures**
Massachusetts Department of Transportation (MassDOT), $99,998
PI: S. Gerasimidis, co-PI: S. Civjan

2019 **Feasibility of 3D printing applications for highway infrastructure construction and maintenance**
Massachusetts Department of Transportation (MassDOT), $174,999
PI: S. Gerasimidis, co-PI: J. Hart (MIT), W. Chen

2019 **Development of comprehensive inspection protocols for deteriorated steel beam ends**
Massachusetts Department of Transportation (MassDOT), $149,998
PI: S. Gerasimidis, co-PI: S. Breña

2019 **3D printed biomimetic biofilm supports for treatment systems**
Massachusetts technology Transfer Center Acorn Award, $15,000
PI: **C**. Butler, co-PI: **S. Gerasimidis**

2018 **Improved load rating procedures for deteriorated steel beam ends with deteriorated stiffeners**
Massachusetts Department of Transportation (MassDOT), $98,795
PI: S. Gerasimidis, co-PI: S. Breña

2017 **Development of load rating procedures for deteriorated steel beam ends**
Massachusetts Department of Transportation (MassDOT), $198,718

PI: S. Gerasimidis, co-PI: S. Breña

2016 **Greek Diaspora Fellowship**
Stavros Niarchos Foundation, $12,000
PI: S. Gerasimidis

Internally-supported Projects

2021 **Using artificial intelligence to discover defects and predict failure**
Department of Civil and Environmental Engineering, Brack Fund, $15,000
PI: S. Gerasimidis, co-PI: J. Oke

2019 **A next generation self-confining reinforced concrete metamaterial**
IALS Translation Midi-grant, $9,000
PI: S. Gerasimidis

Research advising

Post-doctoral researchers (2 current)

- **Kshitij Kumar Yadav, UMass Amherst, MA (Primary Supervisor)**
  Buckling of thin shells
  September 2020 - present

- **Peijun Hou, UMass Amherst, MA (Primary Supervisor)**
  Additive repair for aging infrastructure
  September 2020 - present

PhD Students (4 current, 3 completed)

- **Thomas Vitalis, UMass Amherst, MA (Primary Supervisor)**
  Fire effects on tunnel structures
  June 2021 - present

- **Aidan Provost, UMass Amherst, MA (Primary Supervisor)**
  Deteriorated steel bridges in New England
  June 2021 - present

- **Anderson Pires, UMass Amherst, MA (Primary Supervisor)**
  Auxetic metamaterial lattice architectures for concrete confinement
  September 2020 - present

- **George Tzortzinis, UMass Amherst, MA (Primary Supervisor)**
  Development of Load Rating Procedures and Inspection Protocols for Deteriorated Steel Bridges
  Current Position: expected to start post-doc at University of Dresden, Germany, Aug.1st, 2021
  September 2017 - present

- **Fani Derveni, UMass Amherst, MA (Co-supervisor with Prof. Peterman)**
  Harnessing the mechanics of thin-walled metallic structures: from plate-lattice materials to cold-formed steel shear walls
  Current Position: Post-doc, EPFL, Research group of Prof. Pedro Reis
  September 2017 - April 2021

- Kshitij Kumar Yadav, UMass Amherst, MA (Primary Supervisor)
  Buckling of thin cylindrical shells: imperfection sensitivity, non-destructive technique for capacity prediction and application for wind turbine towers
  Current Position: Post-doc, UMass Amherst
  September 2016 - July 2020

- Panos Pantidis, UMass Amherst, MA (Primary Supervisor)
  Mechanical performance of structural systems with missing members: from buildings to architected materials
  Current Position: Post-doc, NYU Abu Dhabi, UAE, Research group of Prof. Mobasher
  September 2015 - May 2019

M.S. Students (1 current, 5 completed)

- Zoe Sloane, UMass Amherst, MA (Primary Supervisor)
  Biomimetic high-rise building design inspired by the deep sea sponge Euplectella aspergillim
  September 2020 - present

- Nick Menz, UMass Amherst, MA (Primary Supervisor)
  Post-fire assessment of concrete tunnel structures
  Current Position: Structural Engineer, SGH
  September 2020 - May 2021

- Gabrielle Pryor, UMass Amherst, MA (Primary Supervisor)
  Development of comprehensive inspection protocols for deteriorated steel beam ends and the usage of Unmanned Aircraft Systems (drones)
  September 2019 - November 2020

- Bryan Ovelheiro, UMass Amherst, MA (Co-supervisor with Prof. Butler)
  3D Printed Biomimetic Biofilm Supports for Waste Water Treatment Systems
  Current Position: Quality Control Inspector, Holts Precision
  September 2018 - May 2020

- Brendan Knickle, UMass Amherst, MA (Primary Supervisor)
  Design of Experimental Testing setup for Deteriorated Steel Bridge Beam Ends
  Current Position: Assistant Engineer I, CHA Consulting Inc.
  September 2017 - December 2019

- Thomas Hill, UMass Amherst, MA (Primary Supervisor)
  Experimental Testing of Deteriorated Steel Bridge Beam Ends
  Current Position: Structural Engineer, Degenkolb
  September 2017 - May 2019

Thesis and Dissertation Committee Member (2 current, 7 completed)

- Li He, UMass Amherst, MA - Committee Chair: Prof. Zhang
  Functionalizing 3D Superhydrophobic Materials
  May 2021 - present

- Luca Fuller, UMass Amherst, MA - Committee Chair: Prof. Donahue (Biomedical)

Experimental and computational investigation of the role of bighorn sheep (Ovis canadensis) horncore bone architecture and material properties in mitigating brain cavity accelerations during ramming
September 2019 - present

- Alaa Tawfid Ahmed Al-Sammari, UMass Amherst, MA - Committee Chair: Prof. Breña
  Finite Element Simulation of Bonded and Mechanically Anchored Shear Interfaces of Externally Applied FRP Sheets to Concrete and Wood-Concrete Composites
  Current Position: Post-doc, UMass, Amherst
  September 2014 - May 2019

- Jorge Rivera, UMass Amherst, MA - Committee Chair: Prof. Breña
  Evaluation of the Effect of Bottom Bar Splice Location on Performance of Beams in Reinforced Concrete Perimeter Frames
  Current Position: Structural Engineer, US Army Corps of Engineers
  September 2014 - March 2019

- Chih-Shiuan (Jason) Lin, Columbia University, New York, NY - Committee Chair: Prof. Betti
  Deterioration Effect on Progressive Collapse of Bridges
  September 2014 - January 2019

- Sang Guk Yum, Columbia University, New York, NY - Committee Chair: Prof. Deodatis
  Extreme Storm Surge Return Period Prediction Using Tidal Gauge Data and Estimation of Damage to Structures from Storm-Induced Wind Speed in South Korea
  September 2013 - May 2019

- Jenny (Evgenia) Sideri, Columbia University, New York, NY - Committee Chair: Prof. Deodatis
  Distributed Damage Effect on Progressive Collapse of Structures & Variability Response Functions in 2D Elasticity Stochastic Problems
  Current Position: Project Engineer, Thornton Tomasetti, New York, NY
  September 2012 - June 2016

- Athina Spyridaki, Columbia University, New York, NY - Committee Chair: Prof. Deodatis
  Response Variability of Statically Determinate Beam Structures Following Non-Linear Constitutive Laws & Analytical Identification of Progressive Collapse Modes of Steel Frames
  Current Position: Senior Structural Engineer, SOM, New York, NY
  September 2012 - June 2016

- Ignacio Centrangolo, Masters UMass, Amherst, MA - Committee Chair: Prof. Arwade
  I. The high strain rate response of hollow sphere steel foam, II. The dynamic response of an American ulmus tree
  September 2014 - June 2016

Undergraduate Students (3 current, 14 completed)

- James Viglas (Primary Supervisor)
  2021 – present, *Fire effects on tunnel structures*

- Andrew Lochner (Primary Supervisor)
  2020 – present, *Additive repair techniques for bridges*

- Alanna Joachim (Primary Supervisor)

2019 – present, *Architected lattice metamaterials as a new form of structural art*

- Aidan Provost (Primary Supervisor)
  2019-2021, *Architected lattice materials for energy absorption due to impact*
- Bridget Murphy (Primary Supervisor)
  2019-2020, *Scanning techniques for deteriorated bridges*
- Caden McKenna (Primary Supervisor)
  2019-2020, *Auxetically boosted confinement for concrete*
- Nick Menz (Primary Supervisor)
  2019-2020, *Super tall and slender building structures*
- Keegan Burchard (Primary Supervisor)
  2018-2019, *Steel properties of aged corroded steel girders*
- Connor Hill (Primary Supervisor)
  2018-2019, *Laboratory testing of deteriorated steel bridge beam ends*
- Robert Kennedy (Primary Supervisor)
  2018-2019, *The fabrication of architected materials through the additive manufacturing process of powder bed fusion*
- Anna Hayden (Primary Supervisor)
  2018-2019, *Implementing architected materials into the design of earthquake-resistant structures*
- Saleh Aqleh (Primary Supervisor)
  2017-2018, *Architected lattice materials for coronary stents*
- Bryan Ovelheiro (Primary Supervisor)
  2017-2018, *Sandwich plates using architected lattice materials*
- Tracy Donoghue (Primary Supervisor)
  2015-2017, *Progressive collapse of buildings*
- Brendan Knickle (Primary Supervisor)
  2015-2017, *Optimization of diagrid high-rise building structures*
- Andrew Rock (co-advised with Prof. Arwade)
  2015-2016, *The response of aluminum foam subject to dynamic strain rate impact*
- Carly Zinner (co-advised with Prof. Breña)
  2015-2017, *Optimization of diagrid high-rise building structures*

Teaching experience

1 Structural Analysis CEE331: Fall semester 2015, 2016, 2017, 2018, 2019, 2020.
2 Structural Stability CEE549: Spring semester 2016, 2017, 2019.
3 Structural Integrity CEE597: Spring semester 2020.
4 Seminar CEE694B: Fall and spring semesters 2015-2016, 2018-2019, 2019-2020.

PROFESSIONAL EXPERIENCE - CONSULTING

2008 – 2011 **Licensed Structural Engineer, Thessaloniki, Greece**

Designed from the conceptual stage to the construction drawings the two major interventions on the biggest Byzantine monuments of Thessaloniki, the Rotunda and the Eptapyrgion. Both interventions were part of a project improving the accessibility of Byzantine monuments, the design and the construction of which were funded by the European Union and the Greek Program of Public Works through the Ministry of Culture.

2006 – 2007 **Structural Engineer, Thornton Tomasetti Engineers, New York, NY**

Worked in the team designing the new steel/concrete New York Yankees Stadium under the direction of Tom Scarangello and Mike Squarzini, based in the Bronx, NY.

Calculated and modeled the steel high-rise tower for the Chicago Spire project under the direction of Tom Scarangello, architecturally designed by Santiago Calatrava, a 2000ft high tower at Chicago.

2003 – 2004 **Structural Engineer, Santiago Calatrava SA, Athens, Greece**

Calculated and remodeled in detail: the emblematic Arch/Dome-like steel structures for the coverage of the main **Olympic Stadium and the Olympic Velodrome**, the Steel superstructure and foundation of the "**AGORA**", the Steel "**Entrance Canopies**", the Frame-type Steel structure for the "**Nations' Wall**", the Tubular-Steel structure for the "**MONUMENT**", and the **cable–stayed Steel footbridge "CALATRAVA"**, at the "KATEHAKI" metro station (Project Owner ATTIKO METRO S.A.).

Invited Lectures

2019 **Princeton University, Department of Civil and Environmental Engineering, Princeton, NJ, USA**
Invited lecture on "Architected cellular truss-lattice metamaterials: defect sensitivity and structural applications".

2018 **ETH, Department of Civil, Environmental and Geomatic Engineering, Zurich, Switzerland**
Invited lecture on "Research developments and future challenges on the performance and resilience of steel and composite structures".

2017 **Harvard University, John A. Paulson School of Engineering and Applied Sciences, Cambridge, MA, USA**
Invited lecture on "Progressive Collapse of Structures".

2015 **Johns Hopkins University, Department of Civil Engineering, Baltimore, MD, USA**
Invited lecture on "Infrastructure Resilience and Robustness of Structures to Extreme Events".

2015 **University of Illinois at Urbana-Champaign, Department of Civil and Environmental Engineering, Urbana, IL, USA**
Invited lecture on "Urban Infrastructure Resilience to Extreme Events".

2015 **UMass, Department of Civil and Environmental Engineering, Amherst, MA, USA**
Invited lecture on "Infrastructure Resiliency and Robustness of Structures".

2015 **New Jersey Institute of Technology (NJIT), Department of Civil and Environmental Engineering, Newark, NJ, USA**

Invited lecture on “Infrastructure Resilience”.

2013 **MIT, Department of Civil and Environmental Engineering, Boston, MA, USA**
Invited lecture on “Infrastructure Resiliency and Robustness of Structures”.

2012 **University of Birmingham, Department of Civil Engineering, UK**
School of Engineering, Invited lecture on “Robustness and progressive collapse of building structures”, for the workshop “Wind-Energy-Structures”.

Professional Service - Memberships

- Member of the American Society of Civil Engineers (ASCE).
    - Member of the ASCE EMI Committee on Architected Materials
    - Member of the ASCE SEI Committee on Tall Buildings
    - Member of the ASCE EMI Committee on Stability
    - Member of the ASCE EMI Committee on Objective Resilience - one of the judges for the 2017 student competition within the EMI Conference
- Member of the Structural Stability Research Council (SSRC).
    - Member of the Task Group 2: Systems: Stability of Steel Systems, Especially Frames.
    - Member of the Task Group 6: Extreme Loads: Stability under Extreme Loads.
- Member of the Progressive Collapse working group of the Council of Tall Buildings and Urban Habitat (CTBUH).
- Member of the International Association for Shell and Spatial Structures (IASS): Working Group 8 on Metal Spatial Structures.
- Member of the American Physical Society (APS).
- Member of the National Committee of Young Engineers (Greek Technical Chamber).
- Member of the Technical Chamber of Greece.
- Member of the Association of Civil Engineers of Greece: Elected Member of the 15 Member National Board (July 2010 – September 2011)
- Certified Professional Licensed Civil Engineer in Greece (1st Degree Level).
- Ad-hoc journal Reviewer: Extreme Mechanics Letters (Elsevier), Journal of Structural Engineering (ASCE), Journal of Engineering Mechanics (ASCE), Journal of Performance of Constructed Facilities (ASCE), Journal of Constructional Steel Research (Elsevier), Engineering Structures (Elsevier), Structural and Multidisciplinary Optimization (Springer), Structures (Elsevier), Thin-Walled Structures (Elsevier), Journal of Wind Engineering and Industrial Aerodynamics (Elsevier), Journal of Building Engineering (Elsevier), Structure and Infrastructure Engineering (Taylor and Francis), Structural Engineering and Mechanics (Techno Press), Advances in Structural Engineering (Sage), Journal of Applied Mechanics (ASME).
- Mini-symposium Organizer at the Engineering Mechanics Institute Annual Conference on: Progressive Collapse (2015-present) and on Safety Assessment of Aging Infrastructure: From data to decision (2017-present).

University and Department Service

Member of the Curriculum Committee for the Department of Civil and Environmental Engineering.

Member of the Committee on the ABET Certification for the Department of Civil and Environmental Engineering.

Member of the Pathways search committee for a tenure-track Assistant Professor position in the Department of Civil and Environmental Engineering.

Manager of the UMass ABAQUS License for the campus.

Ph.D. Exams, January 2016, September 2016, January 2017, May 2018, May 2019, created, administered and graded the Structural Analysis Exams for Structural Engineering and Mechanics Ph.D. students.

CEE-694B, 2016-2017, 2018-2019, 2019-2020, Organized the Structural Engineering and Mechanics Seminar Series.

New Student Orientation, Summer 2018, Summer 2019, advised incoming first-year students on their first semester coursework

Peer-Reviewed Journal Articles

* *Indicates graduate and undergraduate advisees*

*A note on author order: The convention predominantly observed in my area of research for peer reviewed literature is the lead student is the first author and the PI is the last author, anchoring the author list. Contributing students, faculty and researchers are listed in between based on their contributions.

1. Rivera-Cruz J.A.*, Breña S., **Gerasimidis S.**, Clouston P., (2021). Perimeter beams with integrity reinforcing details of low seismic regions, *ACI Structural Journal*, (accepted).
2. Yadav K.K.*, Cuccia N., Virot E., Rubinstein S.M., **Gerasimidis S.**, (2021). A non-destructive technique for the evaluation of thin cylindrical shell's axial buckling capacity, *ASME Journal of Applied Mechanics*, 88(5): 051003.
3. Menz N.*, **Gerasimidis S.**, Civjan S., Czach J., Rigney J., (2021). A review of post-fire inspection procedures for concrete tunnels, *Transportation Research Record*, (accepted).
4. **Gerasimidis S.**, Hutchinson J.W., (2021). Dent imperfections in shell buckling: the role of geometry, residual stress and plasticity, *ASME Journal of Applied Mechanics*, 88(3): 031007.
5. Tzortzinis G.*, Knickle B.*, Bardow A., Breña S., **Gerasimidis S.**, (2020). Strength evaluation of deteriorated girder ends. I: Experimental study on naturally corroded I-beams, *Thin-walled Structures*, 159: 107220.
6. Tzortzinis G.*, Knickle B.*, Bardow A., Breña S., **Gerasimidis S.**, (2020). Strength evaluation of deteriorated girder ends. II: Numerical study on corroded I-beams, *Thin-walled Structures*, 159: 107216.
7. Liokatis P., Tzortzinis G.*, **Gerasimidis S.**, Smolka W., (2020). Finite element analysis of different titanium plates for internal fixation of fractures of the mandibular condylar neck, *Journal of Oral and Maxillofacial surgery*, 79(3): 10.1016.
8. Derveni F.*, **Gerasimidis S.**, Peterman K., (2020). Behavior of cold-formed steel shear walls sheathed with high-capacity sheathing, *Engineering Structures*, 225, 111280.
9. Derveni F.*, **Gerasimidis S.**, Schafer B., Peterman K., (2020). High-Fidelity Finite Element Modeling of Wood-Sheathed Cold-Formed Steel Shear Walls, *ASCE Journal of Structural Engineering*, 147(2): 04020316.
10. Yadav K.K.*, **Gerasimidis S.**, (2020). Imperfection insensitive thin cylindrical shells for next generation wind turbine towers, *Journal of Constructional Steel Research*, 172, 106228.
11. Yadav K.K.*, **Gerasimidis S.**, (2020). Imperfection insensitivity of thin wavy cylindrical shells under axial compression or bending, *ASME Journal of Applied Mechanics*, 87(4): 041003.
12. Yadav K.K.*, **Gerasimidis S.**, (2019). Instability of thin steel cylindrical shells under bending, *Thin-Walled Structures*, 137, pp. 151-166.
13. Pantidis P.*, Gross A., Bertoldi K., **Gerasimidis S.**, (2019). Correlation between topology and elastic properties of imperfect truss-lattice materials, *Journal of the Mechanics and Physics of Solids,* 124, pp. 577-598.
14. Psyrras N., Kwon O.S., **Gerasimidis S.**, Sextos A., (2019). Can a buried natural gas pipeline buckle locally during earthquake ground shaking? *Soil Dynamics and Earthquake Engineering*, 116, 511-529.
15. Song J., Sun Q., Luo S., Arwade S.R., **Gerasimidis S.**, Guo Y., Zhang G., (2018). Compression behavior of individual thin-walled metallic hollow spheres with patterned distributions of microporosity, *Material Science and Engineering A,* 734, pp. 453-475.

16. Pantidis P.*, **Gerasimidis S.**, (2018). Progressive collapse of 3D steel composite buildings under interior gravity column loss, *Journal of Constructional Steel Research.,* 150, pp. 60-75.
17. **Gerasimidis S.**, Virot E.E., Hutchinson J.W., Rubinstein S.M., (2018). On Establishing Buckling Knockdowns for Imperfection-Sensitive Shell Structures. *ASME. J. Appl. Mech*; 85(9): 091010.
18. **Gerasimidis S.,** Khorasani N.E., Garlock M., Pantidis P.*, Glassman, J., (2017). Resilience of tall steel moment resisting frame buildings with multi-hazard post-event fire, *Journal of Constructional Steel Research*, 139, pp. 202-219.
19. Sideri J.*, Mullen C.L., **Gerasimidis S.,** Deodatis G., (2017). Distributed Column damage effect on progressive collapse vulnerability in steel buildings exposed to an external blast event, *ASCE Journal of Performance of Constructed Facilities,* 31(5): 04017077.
20. Pantidis P.*, **Gerasimidis S.**, (2017). New Euler-type progressive collapse curves for 2D steel frames: an analytical method, *ASCE Structural Engineering,* 143 (9): 04017113.
21. **Gerasimidis S.,** Knickle B.*, Moon K., Pantidis P.*, (2016). Diagrid Structural System for High-Rise Buildings: Applications of a simple stiffness-based optimized design, *International Journal of High-Rise Buildings*, 5(4), pp. 319-326.
22. **Gerasimidis S.,** Deodatis G., Yan Y.*, Ettouney M., (2016). Global instability induced failure of tall steel moment frame buildings, *ASCE Journal of Performance of Constructed Facilities,* 31(2): 04016082.
23. **Gerasimidis S.,** Sideri T.*, (2016). A new partial distributed damage method for progressive collapse analysis of buildings, *Journal of Constructional Steel Research*, Volume 119, pp. 233-245.
24. Stavridou N., Efthymiou E., **Gerasimidis S.**, Baniotopoulos C.C., (2015). Investigation of stiffening schemes effectiveness towards buckling stability enhancement in tubular steel wind turbine towers, *Steel and Composite Structures,* Volume 19 (5), pp. 324-331.
25. **Gerasimidis S.,** Baniotopoulos C.C., (2015). Progressive collapse mitigation of 2D steel moment frames - Assessment of the effect of different strengthening schemes, *Stahlbau*, Volume 84 (5), pp. 324-331.
26. **Gerasimidis S.,** Kontoroupi T., Deodatis G., Ettouney M., (2014). Loss-of-stability induced progressive collapse modes in 3D steel moment frames, *Structure and Infrastructure Engineering*, Volume 11 (3), pp. 334-344.
27. **Gerasimidis S.,** (2014). Analytical assessment of steel frames progressive collapse vulnerability to corner column loss, *Journal of Constructional Steel Research*, Volume 95, pp. 1-9.
28. **Gerasimidis S.,** Bisbos C.D., Baniotopoulos C.C., (2013). A computational model for full or partial damage of single or multiple adjacent columns in disproportionate collapse analysis via linear programming, *Structure and Infrastructure Engineering,* 10 (5), pp. 670-683.
29. **Gerasimidis S.,** Bisbos C.D., Baniotopoulos C.C., (2012). Vertical geometric irregularity assessment of steel frames on robustness and disproportionate collapse, *Journal of Constructional Steel Research*, Volume 74, pp. 76-89.
30. **Gerasimidis S.,** Ampatzis A., Bisbos C.D., (2012). A mathematical programming computational model for disproportionate collapse analysis of steel building frames, *Optimization Letters*, Volume 6, Number 3, pp. 525-535.
31. **Gerasimidis S.,** Baniotopoulos C.C., (2011). Evaluation of wind load integration in disproportionate collapse analysis of steel moment frames for column loss, *Journal of Wind Engineering and Industrial Aerodynamics,* Volume 99, Issue 11, pp. 1162-1173.
32. **Gerasimidis S.,** Baniotopoulos C.C., (2011). Steel moment frames column loss analysis: the influence of time step size, *Journal of Constructional Steel Research*, Volume 67, Issue 4, pp. 557-564.

33. **Gerasimidis S.,** Baniotopoulos C.C., (2011). Disproportionate collapse analysis of cable-stayed steel roofs for cable loss, *International Journal of Steel Structures*, Volume 11, Number 1, pp. 91-98.
34. **Gerasimidis S.,** Efthymiou E, Baniotopoulos C.C., (2009). On the application of robustness criteria to steel lattice masts, *POLLACK Periodica*, Volume 4, Number 1, pp. 17-28.

Manuscripts under Review

1. Tzortzinis G.*, Ai C., Breña S., **Gerasimidis S.**, Using 3D laser scanning for estimating the capacity of corroded steel bridge girders: experiments, computations and analytical solutions, *(submitted May 2021)*.
2. Tzortzinis G.*, Gross A., **Gerasimidis S.**, Auxetic boosting of confinement in mortar by 3D reentrant truss lattices, *(submitted May 2021)*.
3. Derveni F.*, Gross A., Peterman K., **Gerasimidis S.**, Buckling knockdown factors and imperfection insensitivity of elastoplastic plate-lattice materials, *(submitted May 2021)*.
4. Hou P., Mooraj S., Champagne V., Siopis M.J., Liaw P.K., **Gerasimidis S.**, Chen W., Modeling of plasma arc additively-manufactured metallic components: effect of build height on temperature evolution and thermal-induced residual stresses, *(submitted May 2021)*.
5. Liokatis P., Tzortzinis G.*, **Gerasimidis S.**, Smolka W., Finite element analysis of different titanium miniplates: evaluation of three-dimensional designs applied on condylar neck fractures, *(submitted October 2020)*.

Conference Papers-Presentations

1. Tzortzinis G.* **Gerasimidis S.**, Bardow A., Breña S., (2021). "Capacity assessment of aging simple span bridges." *Engineering Mechanics Institute Conference,* Virtual Conference.
2. Tzortzinis G.*, Ai C., Breña S., **Gerasimidis S.**, (2021). "From point clouds to load rating." *MassDOT Transportation Innovation Conference,* Virtual Conference.
3. Tzortzinis G.*, **Gerasimidis S.**, Breña S., Bardow A., (2021). "Corroded steel bridges: From inspection to evaluation." *Committee on Steel Bridges Meeting, TRB,* Virtual Conference.
4. Derveni F.*, **Gerasimidis S.**, Peterman, K.D., (2021), Lateral performance of cold-formed steel shear walls sheathed with steel-gypsum composite panels, *Engineering Mechanics Institute (EMI) Conference*, New York, NY, USA.
5. Derveni F.*, Gross, A., Peterman K.D., **Gerasimidis S.**, (2021), Imperfection sensitivity of metallic plate-lattice materials, *Annual Stability Conference, Structural Stability Research Council (SSRC)*, Louisville, Kentucky, USA.
6. Menz N.*, **Gerasimidis S.**, Civjan S., Czach J., Rigney J., (2021), Review of post-fire inspection procedures for concrete tunnels, *TRR Meeting*, Online.
7. Yadav K.K.*, Cuccia N., Virot E., Rubinstein S., **Gerasimidis S.**, (2021), Prediction of the buckling capacity of thin shells by using stability landscapes, *APS March Meeting*, Online.
8. Cuccia N., Yadav K.K.*, Virot E., Rubinstein S., **Gerasimidis S.**, (2021), Universal Features of Buckling Initiation in Thin Shells, *APS March Meeting*, Online.
9. Tzortzinis G.*, Knickle B.*, **Gerasimidis S.**, Bardow A., Breña S., (2020). "Development of an analytical framework for strength assessment of corroded steel bridges." *World Steel Bridge Symposium,* Atlanta, GA.

10. **Gerasimidis S.**, Tzortzinis G.*, Bardow. A., (2020). "Development of new load rating procedures for deteriorated steel beam ends: experiments, computations, and proposed methods." *TRB*, Washington DC.
11. Derveni F.*, Gross, A., Peterman K.D., **Gerasimidis S.**, (2020), Sensitivity of plate-lattice metamaterials to geometric imperfections, *Materials Research Society (MRS) Conference*.
12. Derveni F.*, **Gerasimidis S.**, Peterman, K.D., (2020), Impact of fastener spacing on the behavior of cold-formed steel shear walls sheathed with fiber cement board, *Cold-Formed Steel Research Consortium Colloquium (CFSRC) Conference*.
13. Derveni F.*, **Gerasimidis S.**, Peterman, K.D., (2020), Nonlinear fastener-based modeling of cold-formed steel shear walls, *Structures Congress Conference*, St. Louis, Missouri, USA.
14. Derveni F.*, **Gerasimidis S.,** Peterman K., (2019), Nonlinear fastener-based modeling of cold-formed steel shear walls under earthquake events, *Engineering Mechanics Institute Conference,* Pasadena CA, USA.
15. Tzortzinis G.*, Knickle B.*, **Gerasimidis S.,** Bardow A., Breña S., (2019), Development of analytical framework for objective resilience of corroded steel bridges, *Engineering Mechanics Institute Conference,* Pasadena CA, USA.
16. Tzortzinis G.*, Knickle B.*, **Gerasimidis S.,** Bardow A., Breña S., (2019), Development of analytical framework for objective resilience of corroded steel bridges, *International Engineering Mechanics Institute Conference,* Lyon, France.
17. Tzortzinis G.*, **Gerasimidis S.**, Bardow A., (2019), Strength evaluation of corroded beam ends, *MassDOT Transportation Innovation Conference*, Worcester, MA, USA.
18. Pantidis P.*, **Gerasimidis S.**, Schafer B., Arwade S., Overlheiro B.*, (2019), Architected materials in structural engineering applications: novel slab design and performance, *Structures Congress*, Orlando, Fl, USA.
19. Yadav K.K.*, **Gerasimidis S.**, (2019), Wavy thin steel cylindrical shells: An alternative to circular thin cylinders for tall and super-tall wind turbine towers, *Structures Congress*, Orlando, Fl, USA.
20. Yadav K.K.*, **Gerasimidis S.**, (2019), Imperfection insensitive thin steel tubular shells under bending, *SSRC Stability Conference*, St. Louis, MO, USA.
21. Yadav K.K.*, **Gerasimidis S.**, (2019), Imperfection-insensitive thin wavy cylindrical shells under bending: Effect of local radius of curvature on buckling and imperfection-sensitivity, *APS March Meeting*, Boston, MA.
22. Yadav K.K.*, **Gerasimidis S.**, (2019), Imperfection insensitivity of thin wave cylindrical shells under axial compression or bending, *NEW.Mech*, Amherst, MA.
23. Tzortzinis G.*, Knickle B.*, **Gerasimidis S.,** Breña S., (2019), Experiments and Computations on Steel Bridge Corroded Beam Ends, *SSRC Stability Conference*, St. Louis, MO, USA.
24. Derveni F.*, **Gerasimidis S.,** Peterman K., (2019), Capturing cold-formed steel shear wall behavior through nonlinear fastener-based modeling, *SSRC Stability Conference*, St. Louis, MO, USA.
25. Tzortzinis G.*, Knickle B.*, **Gerasimidis S.,** Bardow A., Breña S., (2019), Identification of most common shapes and locations for beam end corrosion of steel girder bridges, *TRB*, Washington DC, USA.
26. **Gerasimidis S.,** Virot E., Hutchinson J.W., Rubinstein S.M., (2018), On establishing knockdowns for imperfection-sensitive shell structures, *NewMech 2018,* Brown University, Providence RI, USA.
27. Pantidis P.*, Gross A., Bertoldi K., **Gerasimidis S.**, (2018), On the correlation between topology and elastic properties of imperfect architected materials, *NewMech 2018,* Brown University, Providence RI, USA.
28. Pantidis P.*, Gross A., Bertoldi K., **Gerasimidis S.**, (2018), Flaw tolerance in architected metamaterials, *13th World Congress on Computational Mechanics (WCCM XIII), 2nd Pan American Congress on Computational Mechanics (PANACM II),* 22-27 July 2018, New York, NY, USA.

29. Pantidis P.*, Gross A., Bertoldi K., **Gerasimidis S.**, (2018), Flaw tolerance in architected metamaterials, *15th International Conference on Nanosciences and Nanotechnologies (NN18)*, 3-6 July 2018, Thessaloniki, Greece.
30. Yadav, K.K.*, **Gerasimidis S.,** (2018), Imperfection insensitivity of wavy cross-sectional thin cylindrical shells under bending, *Proceedings of the IASS Symposium 2018, MIT,* Cambridge MA.
31. Pantidis P.*, **Gerasimidis S.**, (2018), The role of shear connections in the progressive collapse response of 3D gravity framed systems, *Structures Congress,* Fort Worth, TX, USA.
32. Hill T.*, Pantidis P. *, **Gerasimidis S.**, (2018), The impact of gravity connections on the progressive collapse response of steel-framed and concrete composite buildings, *SSRC Stability Conference*, Baltimore, MD, USA.
33. Derveni F.*, Pantidis P., **Gerasimidis S.**, Peterman K., (2018), A partial-distributed damage method for progressive collapse of 3D steel composite buildings, *SSRC Stability Conference*, Baltimore, MD, USA.
34. Pantidis P.*, Gross A., Bertoldi K., **Gerasimidis S.**, (2018), Flaw tolerance in three-dimensional defected architected metamaterials, *Engineering Mechanics Institute Conference,* Cambridge, MA, USA.
35. Pantidis P.*, Hill T.*, **Gerasimidis S.**, (2018), Impact of gravity connections on the progressive collapse response of steel-framed and concrete composite buildings, *Engineering Mechanics Institute Conference,* Cambridge, MA, USA.
36. **Gerasimidis S.**, Pantidis P.*, (2018), Missing members in periodic geometries: from buildings to nanolattice materials, *Engineering Mechanics Institute Conference,* Cambridge, MA, USA.
37. Derveni F.*, Pantidis P.*, **Gerasimidis S.**, Peterman K., (2018), A partial-distributed damage method for progressive collapse of 3D steel and concrete composite buildings, *Engineering Mechanics Institute Conference,* Cambridge, MA, USA.
38. Tzortzinis G.*, Knickle B.*, Bardow A., **Gerasimidis S.**, Breña S., (2018), Deteriorated steel beam ends: Identification and selection of most common corrosion patterns, *Engineering Mechanics Institute Conference,* Cambridge, MA, USA.
39. Rivera J.*, Breña S., **Gerasimidis S.**, (2018), Evaluation of the effect of bottom bar splice location on performance of beams in reinforces concrete perimeter frames, *Engineering Mechanics Institute Conference,* Cambridge, MA, USA.
40. Yadav K.K.*, **Gerasimidis S.**, (2018), Imperfection insensitivity of wavy cross-sectional thin cylindrical shells under bending: Effect of cross section's shape and curvature, *Engineering Mechanics Institute Conference*, Cambridge, MA, USA.
41. Psyrras N., Sextos A., Kwon O.S., **Gerasimidis S.**, (2018), Safety factors of buried steel natural gas pipelines under spatially variable earthquake ground motion, *11th U.S. National Conference on Earthquake Engineering,* Los Angeles, CA, USA.
42. **Gerasimidis S.,** Ettouney M., (2017), On the definition of resilience, *Engineering Mechanics Institute Conference,* San Diego, CA, USA.
43. Yadav K.K.*, **Gerasimidis S.,** (2017), Imperfection sensitivity of tall wind turbine thin steel cylindrical shell towers, *Engineering Mechanics Institute Conference,* San Diego, CA, USA.
44. Pantidis P.*, **Gerasimidis S.,** (2017), Progressive collapse response investigation of a 3D 20-story steel framed prototype building, *Engineering Mechanics Institute Conference,* San Diego, CA, USA.
45. Song J., Zhang G., Rahbar N., Arwade S.R., **Gerasimidis S.,** (2017), Experimental and computational microscale characterization of hollow sphere mechanics, *Engineering Mechanics Institute Conference,* San Diego, CA, USA.
46. Yadav K.K.*, **Gerasimidis S.,** Wind J.W., (2017), On the investigation of the most critical shape imperfections for wind turbine tower shell structures, *SSRC Stability Conference*, San Antonio, TX, USA.

47. Pantidis P.*, **Gerasimidis S.,** (2017), Loss-of-stability vs yielding-type collapse mode in 3D steel structures under a column removal scenario: an analytical method of assessing the collapse mode, *SSRC Stability Conference*, San Antonio, TX, USA.
48. **Gerasimidis S.,** (2017), Computational assessment of the residual stresses of a wind turbine tower steel shell and their effect on its buckling capacity, *SSRC Stability Conference*, San Antonio, TX, USA.
49. Papadopoulos S., Sextos A., Kwon O., **Gerasimidis S.**, Deodatis G., (2017), Impact of spatial variability of earthquake ground motion on seismic demand to natural gas transmission pipelines, *16th World Conference on Earthquake Engineering,* Santiago, Chile.
50. **Gerasimidis S.**, Ettouney M., (2016), Long Wave Buckling Instability Study for Progressive Collapse of Tall Steel Moment Frames, *Engineering Mechanics Institute Conference,* Nashville, TN, USA.
51. Pantidis P.*, **Gerasimidis S.,** (2016), New Euler-type progressive collapse curves for 3D steel frames, *Engineering Mechanics Institute Conference,* Nashville, TN, USA.
52. Sideri J.*, Mullen C., **Gerasimidis S.**, Deodatis G., (2016), Progressive collapse vulnerability of 3D high rise steel buildings under external blast loading, *Engineering Mechanics Institute Conference,* Nashville, TN, USA.
53. Pantidis P.*, **Gerasimidis, S.,** (2016), New Euler-type progressive collapse curves for steel frames, *SSRC Stability Conference*, Orlando, FL, USA.
54. Stavridou N., Efthymiou, E., **Gerasimidis, S. &** Baniotopoulos, C.C., (2015), On the Buckling Analysis of Steel Tubular Wind Turbine Towers with vertical and horizontal stiffeners, *Proc. ICOCEE*, Cappadocia, Nevsehir, Turkey, 2015.
55. Torres M., **Gerasimidis S.**, Deodatis G., Ettouney M., (2015), Long Wave Buckling Instability Study for Progressive Collapse of Tall Steel Moment Frames, *Engineering Mechanics Institute Conference,* Stanford, CA, USA.
56. Spyridaki A., **Gerasimidis S.**, Deodatis G., Ettouney M., (2015), Analytical identification of progressive collapse modes of 3D steel frames through new Euler-type progressive collapse curves, *Engineering Mechanics Institute Conference,* Stanford, CA, USA.
57. Sideri J., **Gerasimidis S.**, Deodatis G., Ettouney M., (2015), The effect of partial distributed damage on the progressive collapse mechanisms and collapse loads of high-rise steel buildings, *Engineering Mechanics Institute Conference,* Stanford, CA, USA.
58. Sideri J., Mullen C., **Gerasimidis S.**, Deodatis G., (2015), Progressive collapse vulnerability of 3D high rise steel buildings under external blast loading, *Engineering Mechanics Institute Conference,* Stanford, CA, USA.
59. Mullen C., Sideri J., **Gerasimidis S.**, Deodatis G., (2015), Influence of beam-column parameter interdependency on SDOF based damage mapping in blast impact region of a high-rise steel building, *Engineering Mechanics Institute Conference*, Stanford, CA, USA.
60. Baniotopoulos, C.C., Stavridou, N., Efthymiou, E. & **Gerasimidis, S.,** (2014), On the Buckling Analysis of Steel Tubular Wind Energy Towers: Improving their Structural Response by Stiffening Rings, *Proc. XIX SMIE2014*, Mexico, 12-16.11.2014, 650-660.
61. Yan Y., **Gerasimidis S.,** Deodatis G., Ettouney M., (2014). Global loss-of-stability progressive collapse of steel moment frame structures under column loss, *Engineering Mechanics Institute Conference,* Hamilton, ON, Canada.
62. Yan Y., **Gerasimidis S.,** Deodatis G., Ettouney M., (2014). Global-loss-of-stability progressive collapse mechanisms of 3D steel frame buildings, *CESARE '14, Civil Engineering for Sustainability & Resilience*, Amman, Jordan.
63. Stavridou N., Efthymiou E., **Gerasimidis S.,** Baniotopoulos C.C., (2014). Improvement of steel wind turbine tower structural response with implementation of steel stiffening rings, *CESARE '14, Civil Engineering for Sustainability & Resilience*, Amman, Jordan.

64. **Gerasimidis S.,** Kontoroupi T., Deodatis G., Ettouney M., (2013). Progressive collapse of 3D steel moment frames due to loss-of-stability phenomena, *84th Shock & Vibration Symposium*, Atlanta, GA, USA.
65. **Gerasimidis S.,** Yan Y., Deodatis G., Ettouney M., (2013). A global loss of stability study for progressive collapse of tall steel moment frames, *84th Shock & Vibration Symposium*, Atlanta, GA, USA.
66. **Gerasimidis S.,** Spyridaki A., Deodatis G., Ettouney M., (2013). An analytical tool for the identification of the type of progressive collapse mode of steel moment frames subjected to corner column removal, *84th Shock & Vibration Symposium*, Atlanta, GA, USA.
67. Yan Y., **Gerasimidis S.,** Deodatis G., Ettouney M., (2013). A study on the global loss of stability progressive collapse mechanisms of steel moment frames, *ICOSSAR 2013,* New York, USA.
68. Sideri E., **Gerasimidis S.,** Deodatis G., Ettouney M., (2013). Ductile progressive collapse mechanisms of steel moment frames, *ICOSSAR 2013,* New York, USA.
69. Spyridaki A., **Gerasimidis S.,** Deodatis G., Ettouney M., (2013). A new analytical method on the comparison of progressive collapse mechanisms of steel frames under corner column removal, *ICOSSAR 2013,* New York, USA.
70. Kontoroupi T., **Gerasimidis S.,** Deodatis G., Ettouney M., (2013). A 3D nonlinear progressive collapse study of multi-story steel frame buildings accounting for loss of stability, *ICOSSAR 2013,* New York, USA.
71. Stavridou N., Efthymiou E., **Gerasimidis S.,** Baniotopoulos C.C., (2013). Modeling of the structural response of wind energy towers stiffened by internal rings, *10th HSTAM International Congress on Mechanics,* 25-27 May 2013, Chania, Crete, Greece.
72. **Gerasimidis S.,** Deodatis G., Ettouney M., (2012). New Findings in progressive collapse of buildings & global structural integrity of damaged structures, *83rd Shock & Vibration Symposium*, New Orleans, LA, USA.
73. **Gerasimidis S.,** Bisbos C., Baniotopoulos C.C., (2011). Disproportionate collapse analysis of steel buildings – a plastic limit approach, *National Conference of Steel Structures*, Volos, Greece.
74. Tsalikis C., **Gerasimidis S.,** Baniotopoulos C.C., (2011). Progressive collapse of steel moment frames under localized fire, *Eurosteel 2011*, Budapest, Hungary.
75. Kuhlmann U., Rolle L, Izzuddin B.A., Pereira M., Bisbos C., **Gerasimidis S.,** (2011). Fact sheet of steel structures, *Proceedings of the Final Conference of COST Action TU0601*, Robustness of Structures, pp.85-98, Prague, Czech Republic.
76. Efthymiou E., **Gerasimidis S.** & Baniotopoulos C.C., (2009). On the structural response of steel telecommunication lattice masts for wind loading and combined effects, *EACWE 5*, Florence Italy.
77. **Gerasimidis S.,** Efthymiou E. & Baniotopoulos C.C., (2009). Optimum outrigger locations of high-rise steel buildings for wind loading, *EACWE 5*, Florence Italy.
78. Kalliagra S., **Gerasimidis S.,** Malindretos M., (2009). Sustainability considerations and standards for structural timber, *3RD CIB International Conference on Smart and Sustainable Built Environments*, Delft.
79. Giannakas N., Tegos I., **Gerasimidis S.,** (2009). On the reinforcement of circular section columns under axial loading and biaxial bending of earthquake resistance structures, *Earthquake and Tsunami*, Istanbul, Turkey.
80. Kalliagra S., **Gerasimidis S.,** Malindretos M., (2008). How really sustainable is timber construction, *RETBE*, Alexandria, Egypt.
81. **Gerasimidis S.,** Konstantopoulos K., Manikas C., Baniotopoulos C.C., (2008). Trusses Classification According to Robustness Criteria, *Eurosteel 2008*, Graz, Austria.

CURRICULUM VITAE SUMMARY

Table 1. Curriculum Vitae Summary from 09/2015 - 05/2021

Category	Number/Amount
Number of journal articles that have appeared	24
Number of book chapters accepted (to appear)	1
Number of conference presentations/publications that have appeared	53
Dollar amount of extramural funding awarded as PI	$1,759,614
Dollar amount of extramural funding awarded as co-PI	$275,210
Number of post-docs supervised	2
Number of Ph.D. students supervised that have graduated	3
Number of Ph.D. students co-supervised that have graduated	6
Number of Ph.D. students currently supervised	4
Number of Ph.D. students currently co-supervised	2
Number of M.S. students supervised that have graduated	4
Number of M.S. students co-supervised that have graduated	1
Number of M.S. students currently supervised	1
Number of M.S. students currently co-supervised	0
Number of undergraduate thesis students supervised	14