Curriculum-Vitae

AHMED GODAT, PH.D., P.ENG, M.ASCE

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EDUCATION

- **Doctor of Philosophy,** Université de Sherbrooke, Sherbrooke, Québec, July −2008 (I obtained 4.0/4.0).
  Research Area: Structural Engineering
  Thesis: Numerical Modelling of Externally Shear−Strengthened Reinforced Concrete Beams using Fibre Reinforced Polymers.
- **Master of Science**, Chalmers University of Technology, Gothenburg, Sweden, March 2003.
  Subject: Structural Engineering
  Dissertation: Experimental Investigation of Mechano−Sorptive Creep of Modified Wood.
- **Bachelor of Science, Honours**, Sudan University of Science and Technology, Khartoum, Sudan, May 1999 (I was the only student in my group to be awarded with a **First Class** mention).
  Subject: Civil Engineering

ACADEMIC HONOURS AND AWARDS

- **Excellent Oral Presentation,** the 3rd International Civil Engineering and Architecture Conference, Kyoto (Japan), 17-20 March 2023;
- **Excellence Award in Teaching** from College of Engineering (UAEU) in 2021;
- **UAEU Research Award** for publishing in top 10% journals in year 2020;
- **UAEU Research Award** for publishing in top 5% journals in years 2017 and 2018;
- Nominated for **K.J. Bathe Award 2014** for the best paper in the *Computers and Structures Journal*;
- **FQRNT Scholarship**, postdoctoral fellow scholarship, Fonds québécois de recherche sur la nature et les technologies (FQRNT), Québec, September 2010-August 2012.
- **Mirko Roš Medal**, the best conference paper in the CICE2008 conference, Zurich, Switzerland, July 2008.
- **ISIS poster Award**, ISIS best poster competition, ISIS−Canada, May, Saskatoon, Saskatchewan, May 2008.
- **ISIS poster Award**, ISIS best poster competition, ISIS−Canada, St. John's, Newfoundland, May 2007.
- **Université de Sherbrooke Waiving of International Students Fees,** Université de Sherbrooke, Sherbrooke, Québec, 2005.
- **Université de Sherbrooke Waiving of International Students Fees,** Université de Sherbrooke, Sherbrooke, Québec, 2004.

- **Best Undergraduate−Student in Engineering Award**, Sudan University of Science and Technology, Khartoum, Sudan, May 1999.
- **Excellent Student Award**, Sudan University of Science and Technology, Khartoum, Sudan, May 1998.

RESEARCH EXPERIENCE

Associate Professor, Ajman University, Department of Civil Engineering, August 2022–Present.

- Fields of research interest include:
  Rehabilitation of existing structures;
  Finite element simulation of structures;
  Design of structures using innovative materials such as fiber reinforced polymers (FRP);
  Development of design equations using artificial intelligence and Monte-Carlo simulation approaches.

Research Associate, Université de Québec, École de Technologie Supérieure, Dept. of Construction Engineering, Montréal, Québec, September 2012 – August 2016.

- The group of *Development and Research in Structures and Rehabilitations* (*DRSR*). The head of the group is Prof. Omar Chaallal.

Post-doctoral Fellow, Université de Québec, École de Technologie Supérieure, Dept. of Construction Engineering, Montréal, Québec, September 2010 – Agust 2012.

- The group of *Development and Research in Structures and Rehabilitations* (*DRSR*). The head of the group is Prof. Omar Chaallal. This research period was completely funded by the FQRNT Scholarship (Fonds québécois de recherche sur la nature et les technologies).

PUBLICATIONS

- **Peer-reviewed Journal Articles**

1. N. IBRAHIM, S. ELKHOLY, **A. GODAT** AND A. EL-KHOLY (2023). "Implementation of Modified Compression Field Theory to Simulate the Behavior of Fiber-Reinforced Polymer Shear-Strengthened Reinforced Concrete Beams Under Monotonic Loading", *Buildings Journal* (*MDPI*), 13(4), No. 899.
2. **A. GODAT**, E. ALGHAFRI, N. AL TAMIMI, H. ALJABERI AND S. ALDAWEELA (2022). ''Bond Behavior of Basalt Fiber Reinforced Polymer Bars in Recycled Coarse Aggregate Concrete'', *Sustainability Journal*, Special Issue on Effect of Advanced Sustainable Material in Construction, 14(3), No. 1374.
3. **A. GODAT**, S. ALDAWEELA, H. ALJABERI, N. AL TAMIMI AND E. ALGHAFRI (2021). ''Bond Strength of FRP Bars in Recycled-Aggregate Concrete'', *Construction and Building Materials*, 267, No. 120919.
4. **A. GODAT**, O. CHAALLAL AND Y. OBAIDAT (2020). ''Nonlinear Finite-Element Modelling Investigation of the Parameters Affecting Externally-Bonded FRP Flexural-Strengthened RC Beams'', *Results in Engineering*, 8, No. 100168.
5. **A. GODAT**, F. HAMMAD AND O. CHAALLAL (2020). ''State-of-the-Art Review of Anchored FRP Shear-Strengthened Beams: A Study of Influencing Factors'', *Composite Structures*, 254, No. 112767.
6. **A. GODAT**, F. CERONI, M. PECCE AND O. CHAALLAL (2017). ''Evaluation of FRP-to-Concrete Anchored Joints Designed for FRP Shear-Strengthened RC T-Beams'', *Composite Structures*, 176, 481-495.

7. **A. GODAT,** R. PROWT AND O. CHAALLAL (2016). ''Bond Mechanism of a New Anchorage Technique for FRP Shear-Strengthened Beams using CFRP Rope'', *Journal of Reinforced Plastics and Composites*, 35(6), 487-503.
8. O. CHAALLAL, M. AROCKIASAMY AND **A. GODAT** (2015). ''Field Test Performance of Buried Flexible Pipes under Live Truck Loads'', *Journal of Performance of Constructed Facilities* (*ASCE*), 29(5).
9. O. CHAALLAL, M. AROCKIASAMY AND **A. GODAT** (2015). ''Numerical Finite-Element Investigation of the Parameters Influencing the Behavior of Flexible Pipes for Culverts and Storm Sewers under truck load'', *Journal of Pipeline Systems Engineering and Practice* (*ASCE*), 29(5).
10. O. CHAALLAL, M. AROCKIASAMY AND **A. GODAT** (2015). ''Various Laboratory Tests to Evaluate Mechanical Properties of Flexible Pipes'', *Journal of Performance of Constructed Facilities* (*ASCE*), 6(2).
11. G. EL-SAIKALY, **A. GODAT** AND O. CHAALLAL (2015). ''A New Anchorage Technique for FRP Shear-Strengthened RC T-Beams using CFRP Rope'', *Journal of Composites for Construction* (*ASCE*), 19(4).
12. **A. GODAT**, O. CHAALLAL, AND A. L'HADY (2013). ''Comportement des Ancrages de la Méthode par Insertion de Barres en PRF pour le Renforcement en Cisaillement de Poutres en Béton Armé'', *Canadian Journal of Civil Engineering*, 40, 408-416.
13. **A. GODAT**, O. CHAALLAL AND K.W. NEALE (2013). ''Nonlinear Finite Element Models for the Embedded Through-Section FRP Shear-Strengthening Method'', *Computers and Structures*, 119, 12–22.
14. **A. GODAT** AND O. CHAALLAL (2013). ''Strut-and-Tie Method for Externally Bonded FRP Shear-Strengthened Large-Scale Beams'', *Composite Structures*, 99, 327–338.
15. **A. GODAT**, A. L'HADY AND O. CHAALLAL (2012). ''Bond Behavior of Embedded Through-Section FRP Bar Shear-Strengthening Method'', *Journal of Composites for Construction* (*ASCE*), 16 (5), 529–539.
16. **A. GODAT,** P. LABOSSIÈRE, K. W. NEALE AND O. CHAALLAL (2012). ''Behavior of RC Members Strengthened in Shear with EB FRP: Assessment of Models and FE Simulation Approaches'', *Computer and Structures*, 92–93, 269–282.

- **Refereed Conference Proceedings**

17. **A. GODAT**, E. ALGHAFRI, N. ALTAMIMI, H. ALJABERI AND S. ALDAWEELA (2024). "Exploring the bond performance of FRP bars in concrete made with recycled aggregate concrete", *the 7th International Conference on Composite Material, Polymer Science and Engineering (CMPSE 2024*), May 24-25, Bangkok, Thailand.
18. O. ALASAAD, A. MOHAMED, M. ALTAKRETI, A. ALHAJJAJ, **A. GODAT** AND A. NASSR (2024). "Development of high strength recycled-aggregate concrete'', *the 1st International Student Conference on Applied Sciences (ISCAS 2024) "Empowering Youth in the Digital Era"*, May 21-22, Virtual Conference.
19. S. ELKHOLY, **A. GODAT**, AND S. GHAZI1 (2023). "Finite element modelling of externally-prestressed girders", *The 3rd International Civil Engineering and Architecture Conference* (*CEAC 2023)*, March 17-20, Kyoto, Japan.
20. A. ELKHOLY, A. S. ELKHOLY AND **A. GODAT** (2022). Towards finite element modelling of reinforced recycled-coarse aggregate concrete deep beams", *4th Advances in Science and Engineering Technology multi-conferences* (*ASET 2022*), February 21-24, Dubai, UAE.
21. N. IBRAHIM, S. ELKHOLY AND **A. GODAT** (2022). "Finite element simulation of Reinforced Concrete Beams under fatigue loading", *7th International Conference on Structural Engineering and Concrete Technology* (*ICSECT'21*), April 10-12, Virtual Conference.

22. F. HAMMAD AND **A. GODAT** (2021). "The effectiveness of CFRP ropes to anchor FRP shear-strengthened RC T-beams with continuous sheets", *CICE 2020- The 10th International Conference on FRP Composites in Civil Engineering* (*CICE 2020*), July 1-3, Istanbul, Turkey.
23. **A. GODAT**, S. ALDAWEELA, H. ALJABERI, N. ALTAMIMI AND E. ALGHAFRI (2020). "Bond-slip behavior of FRRP bars in recycled concrete", *10th International Conference on Advanced Models and new Concepts in Concrete and Masonry Structures* (*AMCM*), Lublin, Poland.
24. **A. GODAT**, E. ALGHAFRI, N. ALTAMIMI, H. ALJABERI AND S. ALDAWEELA (2020). "Evaluation of bond performance of BFRP bars in recycled concrete", *The 3rd European and Mediterranean Structural Engineering and Construction Conference* (*EURO MED SEC 3*), August 3-8, Limassol, Cyprus.
25. **A. GODAT**, E. ALGHAFRI, N. ALTAMIMI, H. ALJABERI AND S. ALDAWEELA (2020). "Bond Strength of BFRP Bars in Recycled-Aggregate Concrete", *UAEU Annual Research and Innovation Conference*, February 4-5, Al-Ain, UAE.
26. **A. GODAT**, F. CERONI, O. CHAALLAL, M. PECCE (2018). "Comparison of FRP-to-concrete anchored joints designed for FRP shear-strengthened RC T-beams", *fib2018- 5th International fib Congress*, October 7-11, Melbourne, Australia.
27. **A. GODAT** AND O. CHAALLAL (2018). "Bond Mechanism of Innovative Anchorage Solution for FRP Shear-Strengthened RC T-beams using CFRP Rope", *MECHCOMP4- The 4th International Conference on Mechanics of Composites*, July 9-12, Madrid, Spain.
28. G. EL-SAIKALY, O. CHAALLAL AND **A. GODAT** (2014). ''Fatigue Behavior of RC Beams Strengthened in Shear with Externally Bonded CFRP Sheets'', *CICE 2014- The 7th International Conference on FRP Composites in Civil Engineering*, August 20-22, Vancouver, British Columbia.
29. A. BOUSSELHAM, **A. GODAT** AND O. CHAALLAL (2014). ''Size Effect on Shear Contribution of FRP Shear-Strengthened RC Beams'', *CICE 2014- The 7th International Conference on FRP Composites in Civil Engineering*, August 20-22, Vancouver, British Columbia.
30. **A. GODAT** AND O. CHAALLAL (2013). ''Use of Strut-and-Tie Method to Predict the Capacity of FRP Shear-Strengthened Large-Scale RC Beams'', *2013 Annual Conference of the Canadian Society of Civil Engineers*, Proc., on a CD, May 29–June 1st, Montréal, Québec.
31. **A. GODAT,** O. CHAALLAL AND K.W. Neale (2012). ''Mechanics of Bond Behavior of Embedded Through-Section FRP bar Shear-Strengthening Method'', *6th International Conference on FRP Composites in Civil Engineering (CICE2012)*, Proc., on a CD, June 13–15, Rome, Italy.
32. **A. GODAT** AND O. CHAALLAL (2012). ''Analytical Modeling of Bond Behavior of Embedded Through-Section FRP Bar Shear-Strengthening Method'', *6th International Conference on Advanced Composite Materials in Bridges and Structures* (*ACMBS-VI*), Proc., on a CD, May 22–25, Kingston, Ontario.
33. **A. GODAT** AND O. CHAALLAL (2012). ''Effect of the Fracture Energy of the FRP/Concrete Interfacial Behavior on Beams Strengthened in Shear with EB-FRP'', *A fracture approach for FRP-concrete structures, ACI spring Convention*, Proc., on a CD, Mars 18–22, Dallas, Texas.
34. **A. GODAT**, A. L'HADY, O. CHAALLAL AND W.K. NEALE (2012). ''Investigation of Bond Behavior of Embedded Through-Section FRP Rod Shear-Strengthening Method'', *The Third Official International Conference of International Institute for FRP in Construction for Asia-Pacific Region (APFIS 2012)*, Proc., on a CD, Feb. 2–4, Hokkaido University, Japan.
35. **A. GODAT** AND O. CHAALLAL (2011). ''Numerical Predictions for Various Configurations of FRP Shear-Strengthened Beams'', *The International Conference on Recent Advances in Nonlinear Models-Structural Concrete Applications (CoRAN 2011)*, Proc., on a CD, Nov. 24–25, Coimbra, Portugal.
36. **A. GODAT**, A. L'HADY, A. MOFIDI AND O. CHAALLAL (2011). ''Experimental Investigation of Bond Behavior of Embedded Through-Section FRP Bar Shear-Strengthening Method'', *The 26th ASC Annual Technical Conference (the Second Joint US-Canada Conference on Composites)*, Proc., on a CD, Sept. 26- 28, Montreal, Québec.