

SIAFA GROSE, D.Eng.
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PROFILE

More than 9 years of successful experience with University teaching, research and management. Strong analytical, communication and planning skills, combined with the ability to build effective, long-lasting relationships with agencies; Ability to lead, think critically and creatively to transform state-of-the-art ideas into tangible products and outcomes through research innovation; Passionate about teaching, training and mentoring; certified online professor.

RESEARCH AND TEACHING INTERESTS

Structural engineering; bridge engineering and design; structural dynamics; earthquake engineering; reinforced concrete design; large-scale experimental testing; analytical modeling and simulation; finite element analysis; engineering mechanics; and composite materials for transportation structures

PROFESSIONAL PREPARATION

Morgan State University, Baltimore, Maryland

D.Eng. in Civil (Structural) Engineering, **December 2017**

Minor: Geotech

Dissertation Title: *Local Damage Analysis of a Prefabricated Bridge Deck Panel-to-Panel Seam Using Aramid Fiber Reinforced Polymer (AFRP) Bars*

Advisors: Dr. Monique Head, Ph.D, Associate Professor

Morgan State University, Baltimore, Maryland

M.S. in Civil Engineering, **May 2012**

Thesis Title: *Base isolation system analytical analysis for two floors steel frame building structure using STAAD.Pro*

Advisor: Dr. Indranil Goswami, Associate Professor

Morgan State University, Baltimore, Maryland

B.S. Civil Engineering, **May 2010**

PROFESSIONAL EXPERIENCE

- Manage and facilitate research projects related to bridge engineering and large-scale experimental testing of bridge elements using advanced materials
- Conducted pullout tests on experimental specimens to evaluate the effect of the embedment length and concrete bond strength for a pretensioned anchorage system using aramid fiber reinforce polymer (FRP) bar within a time limit to allow for release of pretensioned AFRP bars within concrete beams.
- Manage and facilitate research projects in the area of bridge engineering and large-scale experimental testing of bridge beams using prestressed with aramid fiber reinforced polymer (AFRP) bars
- Teach students how to utilize laboratory equipment including operating Universal Testing Machine (UTM) and other Instron equipment
- Advise undergraduate students on which classes to take, future outlook and career paths
- Created finite element model to analytically investigate and define the nonlinear behavior of PBES panel-to-panel connections using COMSOL5.2a Multiphysics

Intern,

- Maryland State Highway Administration (SHA), Transportation Engineer III,(Bridge Project # 0314000 MD I – 695 Baltimore Beltway over Milford Mill Road), May - September 2015
- Maryland State Highway Administration (SHA), Transportation Engineer III,(Bridge Project # 10079

Bridge Project # 10078 MD I – 270 over Bennett Creek and MD I-270 over MD 80 in Frederick, MD), May - September, 2012

- Maryland State Highway Administration (SHA), Transportation Engineer II, Office of Material Technology (OMT) Research lab, handover, MD, May - September, 2011
- Maryland State Highway Administration (SHA), Transportation Engineer I, (Bridge Project # 2079 MD 258 (Bay Front Rd) Over Rockhold Creek), Annapolis, MD, May - September, 2008

TECHNICAL JOURNAL REVIEW

ACI Structural Journal	2008-2021
ASCE Journal of Bridge Engineering	2008-2021
ASCE Journal of Structural Engineering	20012-2021

PROFESSIONAL ORGANIZATIONS

Society of Civil Engineers (ASCE), SEI Member	2008-2021
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Conference Proceedings

- **Grose, A. S.,** Shokouhian, M., and Head, M. (2018). “Nonlinear Analysis of AFRP Connections of Reinforced Concrete Bridge Decks under Cyclic Loads” *ASCE Journal of Structural Engineering*, Accepted.
- **Grose, A. S.,** Shokouhian, M., and Head, M. (2018). “Grout Mix Design for AFRP Strand Release” *ASCE Journal of Structural Engineering*,