

**BOARD OF TRUSTEES  
UNIVERSITY OF THE DISTRICT OF COLUMBIA  
UDC RESOLUTION NO. 2025 - 32**

**SUBJECT: TENURE APPROVAL FOR BRYAN HIGGS, PH.D., SCHOOL OF ENGINEERING AND APPLIED SCIENCES**

**WHEREAS**, pursuant to D.C. Official Code § 38-1202.06(3), the Board of Trustees is authorized to establish or approve policies and procedures governing admissions, curricula, programs, graduation, the awarding of degrees, and general policy for the components of the University; and

**WHEREAS**, Professor Bryan Higgs, Assistant Professor of Civil Engineering in the School of Engineering and Applied Sciences (SEAS) of the University of the District of Columbia (UDC), has petitioned the University to be granted tenure in the department in which she is qualified; and

**WHEREAS**, Dr. Devdas Shetty, Dean of SEAS, in conjunction with the Department Chair and the Department and College Promotion and Tenure Committees, have conducted a thorough review of Professor Higgs's academic background and records of achievement in teaching, scholarship, and university and community service and have promoted Professor Higgs to Associate Professor effective October 1, 2025, and recommended him for tenure; and

**WHEREAS**, they judged Professor Higgs to be an excellent professor in the Civil Engineering program with distinguished skills and expertise in his field who meets the criteria by which University of the District of Columbia faculty are evaluated, based on the 8<sup>th</sup> Master Agreement, noting his rankings as successful in teaching effectiveness; research and scholarly works (with a particular emphasis on climate change that directly responds to an urgent need of society and includes establishment of the UDC Center of Climate Change Analytics through a \$1 million grant from NSF); and substantial service to the profession, University, and broader community, all of which make him an asset to UDC; and

**WHEREAS**, the Chief Academic Officer and the President have affirmed the recommendation of tenure for Professor Higgs from Dean Shetty and the appropriate committees, and the President has forwarded the recommendation for tenure to the Board of Trustees.

**NOW, THEREFORE, BE IT RESOLVED** that the Board of Trustees of the University of the District of Columbia approves the award of tenure to Professor Bryan Higgs, School of Engineering and Applied Sciences, at the rank of Associate Professor effective October 1, 2025.

Approved by the Executive Committee:

June 17, 2025

Ratified by the Board of Trustees:

June 24, 2025



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Warner H. Session  
Chairperson of the Board

UNIVERSITY OF THE  
DISTRICT OF COLUMBIA  
OFFICE OF THE CHIEF ACADEMIC OFFICER

APRIL MASSEY, PH.D.  
CHIEF ACADEMIC OFFICER

May 12, 2025

Dr. Bryan Higgs  
School of Engineering and Applied Sciences  
University of the District of Columbia

Dear Dr. Higgs,

This letter is to inform you that I have reviewed and am recommending approval of your application for promotion to associate professor with tenure.

Having thoroughly evaluated your record of accomplishments in the domains of teaching, scholarship, and service, and having concurred with the recommendations of the Chair, Dean, and relevant promotion review committee(s), my recommendation will now go to President Edington for final approval of the promotion—and to both the president and the Board of Trustees for final decisions regarding tenure.

Regarding your application for tenure, after receiving presidential approval, your application will be reviewed and voted on at the next meeting of the Board's Academic and Student Affairs Committee, scheduled for June 17, 2025. Applicants approved in Committee will be voted on during the subsequent full Board meeting, scheduled for June 24, 2025. Board-approved tenures will be effective on October 1, 2025.

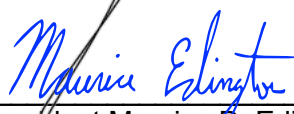
All approved promotions and associated salary increases will be effective on October 1, 2025, subject to final budget approval by the government of the District of Columbia.

Congratulations on reaching this stage of the review process and thank you for your sustained commitment to student success and professional excellence. You are to be commended for submitting a strong narrative and supporting evidence of your achievements as a faculty member at the University of the District of Columbia.

Sincerely,



Approved:

  
\_\_\_\_\_  
President Maurice D. Edington

Date: 6/13/25

**Devdas Shetty, Ph.D., PE, Dean/Professor**  
Office of the Dean  
School of Engineering and Applied Sciences  
Email: [devdas.shetty@udc.edu](mailto:devdas.shetty@udc.edu)

Dr. April Massey  
Chief Academic Officer  
University of the District of Columbia  
Washington, DC 20008

02/22/2025

**Ref: Dr. Bryan Higgs - Recommendation for Promotion to Associate Professor along with Tenure in the School of Engineering and Applied Sciences**

I have the pleasure of strongly supporting Dr. Bryan Higgs candidacy for promotion to the rank of Associate Professor with Tenure in Civil Engineering.

Dr. Bryan Higgs joined as a tenure-track Assistant Professor in Civil Engineering in January 2017 after completing his Ph.D. from Virginia Tech. He has also earned his B.S. in Civil Engineering and M.S. Civil Engineering from Virginia Tech. Since that time, he has been making an exemplary contribution to the University of The District of Columbia. The results are available through his student evaluations, scholarly publications and funded grants.

Dr. Higgs received a Distinguished rating (4/4) in all three categories (teaching, research, and service) in recent years. His academic record shows clear growth in teaching, research, and service during his time as an Assistant Professor. The college promotion and tenure committee, while pointing out his exemplary performance, have unanimously recommended him for promotion to the rank of Associate Professor with Tenure.

**Dr. Bryan Higgs as Teacher Scholar:**

Dr. Higgs has been teaching and providing instruction on various subjects that include fundamental engineering courses, including Engineering Mechanics I and Engineering Mechanics II, and all the transportation-related courses which represent his core area of expertise. Dr. Higgs has employed effective teaching techniques for developing technical skills through customization of student assignments and creating collaborative learning modules.

His teaching philosophy has evolved continuously through varied academic and professional experiences over his years at UDC. Continuous and on-going communication with faculty colleagues and SEAS administrators has influenced his teaching and research. In his teaching and in the classroom, Dr. Higgs has been emphasizing students' ability to

apply engineering design principles to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors. In addition, Dr. Higgs developed and taught specialized transportation engineering courses to graduate students of UDC.

### **Dr. Higgs' Research Contributions**

Dr. Higgs has conducted research on a wide variety of engineering topics including transportation, climate change, economic development, driver psychology, and game theory. His work directly responds to an urgent need of society to understand the risks and challenges of climate change and the work is actively developing the future talent that can address those challenges. His broad expertise has culminated in the establishment of the UDC Center of Climate Change Analytics through a \$1 million grant from NSF. The goal of this center is to advance the educational and research infrastructure at UDC to support climate change research. The focus of the research of this center is to develop a game theory framework that can forecast potential future climate scenarios along with extreme weather event risks to protect the critical infrastructure of coastal communities. His grants support several PhD students and are attracting both undergraduate and graduate students towards climate change research.

Dr. Higgs has been very active in growing his research team and encouraging student publications. His papers have been widely cited by different scholars in the field of Transportation Engineering and currently has a total of 685 citations of publication with h-index of 7 and i10-index of 7 with accrued 500 citations since 2018 in the last few years. He is actively engaging his graduate and undergraduate students in the preparation of peer reviewed publications which is a great contribution to student mentoring.

One of the external evaluators Dr. Clara Fang, Chair of Civil Engineering and experienced Professor of Transportation at the University of Hartford, Connecticut indicates that *“Dr. Higg’s research output includes numerous peer-reviewed publications in respected journals and conference proceedings. His most-cited works, particularly in driver behavior modeling, transportation network vulnerability, and game theory applications, demonstrate a strong influence in his field. With over 673 citations and an increasing research impact as indicated by platforms like Google Scholar and ResearchGate, it is clear that his work is being recognized and utilized by scholars globally”*.

### **Dr. Higgs' Contributions to Service**

Dr. Higgs' contribution to the Civil Engineering program has been outstanding. Dr. Higgs serves extensively in the CE department, SEAS-wide and university committees. At the departmental level, he serves as the Undergraduate Program Director of the Department of Civil Engineering and the Chair of the Curriculum Committee. At the SEAS level, he has

served on several committees and taskforces, most notably including the ABET Accreditation Taskforce.

For the 2020 ABET accreditation cycle, he wrote the Self Study report for the Civil Engineering undergraduate program and contributed significantly to the web-based presentation system that was used for the virtual ABET site visit in 2020 and liaised seamlessly with the Associate Dean on all related preparations. He provided a new template for documenting outcome-based assessment results and developed procedures for continuous improvement in the curriculum

Dr. Bryan Higgs has been actively engaged in professional development and faculty workshops at the University of the District of Columbia, enhancing his pedagogical approach, research methodologies, and interdisciplinary collaboration. Through these workshops, he has integrated adaptive learning strategies into Blackboard, refined course content to align with ABET accreditation standards, and participated in interdisciplinary research seminars that bridge civil engineering, computer science, and environmental studies.

Another external examiner is Dr. Stephen Arhin, Former Professor and Chair, Department of Civil and Environmental Engineering at Howard University and currently works as Principal of Transportation Engineering at Sheladia Associates. Dr. Arhin indicates that the *“research portfolio of Dr. Higgs promotes an interdisciplinary approach, which is key to advancement in research, particularly in the transportation engineering industry. It must be noted that, based on the School’s Faculty Norms for Associate Professor with Tenure, the candidate’s research activities from his initial appointment to date are commendable. Regarding Dr. Bryan Higg’s publications and technical reports, the articles presented in his application show an adequate number of journals from his initial appointment to date. In addition, several of the journal publications listed are recognizable and impactful. Since 2017, he has published as the corresponding/lead author in five (5) journals or articles. The candidate is commended for participating in several service activities including supporting the student chapter of ASCE and volunteering for MATHCOUNTS. In addition, the candidate serves on several Transportation Research Board (TRB) Committees as a friend, in addition to serving as a reviewer for National Science Foundation Graduate Research Fellowship and the DoD SMART Scholarship Programs”*.

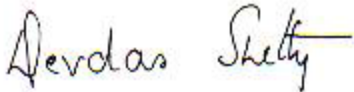
External evaluator Dr. Clara Fang makes further interesting observations while comparing Dr. Higgs’ standing in the field of Civil Engineering and in comparison, with peers. *“In evaluating Dr. Higgs’ standing in the field, it is evident that he is making significant contributions relative to his career stage. His research productivity, leadership in establishing a research center, and success in securing external funding place him in a strong position compared to other faculty members of similar rank and experience. His interdisciplinary approach, integrating engineering, data science, and policy analysis,*

*makes his work particularly relevant and forward-thinking. Many assistant professors in civil and transportation engineering struggle to secure large-scale federal funding early in their careers. Dr. Higgs' NSF grant and leadership role in collaborative research efforts, such as his participation in University Transportation Center proposals, highlight his ability to compete at a high level. His involvement in professional organizations, including ASCE, ASEE, and TRB, further demonstrates his active engagement in shaping the field”*

Dr. Higgs's research, teaching, and service directly support UDC's mission as a public, historically Black, urban-focused, land-grant university dedicated to serving the District of Columbia and developing transformative leaders. His research in climate change impact analysis, transportation resilience, and artificial intelligence applications addresses critical urban challenges, aligning with UDC's focus on community-driven solutions. By securing external funding, he has expanded research opportunities and strengthened UDC's infrastructure.

Dr. Higgs' contribution to UDC has been outstanding. He has met the scholarly, teaching and service requirements for **promotion as an Associate Professor with Tenure**. I believe advancement to the rank of Associate Professor with Tenure is warranted for Dr. Higgs.

Sincerely,

A handwritten signature in black ink that reads "Devdas Shetty". The signature is written in a cursive style with a horizontal line extending from the end of the name.

Devdas Shetty, Ph.D., P.E.

Dean

School of Engineering and Applied Science

Professor of Mechanical Engineering and Distinguished Energy Chair

University of the District of Columbia

4200 Connecticut Avenue NW

Washington, DC 20008

202-274-5033 (direct); 860 810 3575 (Cell)

Email: [devdas.shetty@udc.edu](mailto:devdas.shetty@udc.edu)



# Dr. Bryan J. Higgs

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University of the District of Columbia  
4200 Connecticut Avenue, NW, Suite 213D  
Washington DC 20008

Email: [bryan.higgs@udc.edu](mailto:bryan.higgs@udc.edu)  
Phone: (202) 274-6600

## Education

**Doctor of Philosophy in Civil Engineering**, July 2014

Virginia Polytechnic Institute and State University  
Department of Civil and Environmental Engineering, Blacksburg, VA

**Master of Science in Civil Engineering**, December 2011

Virginia Polytechnic Institute and State University  
Department of Civil and Environmental Engineering, Blacksburg, VA

**Bachelor of Science in Civil Engineering**, May 2009

Virginia Polytechnic Institute and State University  
Department of Civil and Environmental Engineering, Blacksburg, VA

## Work Experience

**Founding Director**, Center of Climate Change Analytics, University of the District of Columbia, Washington, DC  
Fall 2022 - Current

**Assistant Professor**, University of the District of Columbia, Washington, DC Spring 2017 - Current

**Post-Doctoral Researcher**, Intermodal Freight Transportation Institute, University of Memphis, Memphis TN Fall 2014 - Fall 2016

**Graduate Research Assistant**, Virginia Tech, Blacksburg, VA Spring 2010, Summer 2010, Fall 2010, Spring 2011, Summer 2011, Summer 2012, Summer 2013, Fall 2013

**Graduate Teaching Assistant**, Virginia Tech, Blacksburg, VA Fall 2009, Fall 2011, Spring 2012, Fall 2012, Spring 2013, Spring 2014

**Intern**, Virginia Department of Transportation, Salem, VA Summer 2007, Winter 2007-2008, Summer 2008, Winter 2008-2009

## Research Interests

- Climate Change Impact Analysis
- Resilience of Critical Infrastructure Systems
- Applications of Multi-Level Multi-Objective Game Theory
- Geospatial Data Mining and Analysis
- Artificial Intelligence Applications in Data Analysis
- Analysis of Psychophysiological Driver Behavior
- Traffic Flow Theory and Car-Following Models
- Transportation Network Design and Optimization
- Traffic Safety Analysis
- Traffic Simulation

## **Research Projects and Experience**

### **HBCU-RISE: Enhancement of Research and Educational Infrastructure in Climate Change Impact Analysis for Critical Infrastructure Systems Protection Using Game Theory**

National Science Foundation Grant (\$1,000,000)

- Create an important educational and research platform that will train undergraduate and graduate students to become diverse next-generation leaders in workforce, government, and beyond to address emerging contemporary issues of climate change.
- Advance predictive capabilities of the effects of climate-driven sea level rise and extreme storm events by mapping potential future climate scenarios and identifying robust decision strategies that best protect the critical infrastructure systems that support everyday life.

### **Assessment of Sustainability in Transportation Network Design using Game Theory**

UDC Faculty Incentive Grant

- Assess the ability of transportation networks to meet traffic demand to an acceptable performance level into future years

### **I-65 Corridor Feasibility Study**

Tennessee Department of Transportation

- Assess the current and future deficiencies of freight movements in the I-65 corridor in Tennessee

### **Discovering the Vulnerable Physical Routes in a Network**

National Geospatial-Intelligence Agency (NGA)

- Apply multi-level multi-objective game theory for analysis of network vulnerability

### **Driver Behavior in Traffic**

Federal Highway Administration – Exploratory Advanced Research

- Develop new driver behavior models using Naturalistic Driving Data

## **Teaching Experience**

- Traffic Engineering
- Transportation Engineering
- Applied Numerical Analysis
- Engineering Mechanics I and II (Statics and Dynamics)
- Construction Planning and Scheduling
- Travel Demand Modeling
- Engineering Optimization
- Game Theory Applications in Engineering

## **Service Activities**

### **University-Level**

- Faculty Senate Representative for the Department of Civil Engineering
- Officer of Academic Standards, Policies, and Procedures Committee of the Faculty Senate
- Member of Ward 8 Community Economic Development Committee

### **College-Level**

- ABET Accreditation Preparation Committee
- Faculty Union Representative for the School of Engineering and Applied Sciences
- Member of SEAS Grievance Committee

## **Department-Level**

- Program Director for the Undergraduate Civil Engineering Program
- Faculty Advisor for UDC Student Chapter of the American Society of Civil Engineers
- Chair of Curriculum Committee for Department of Civil Engineering
- Undergraduate Student Advising

## **Scholarly Article Reviewer**

- Transportation Research Part C: Emerging Technologies
- Biological Psychology
- IEEE Transactions on Vehicular Technology
- Advances in Mechanical Engineering
- IEEE Intelligent Transportation Systems Conference
- Transportation Research Board Annual Meeting

## **Volunteer Activities**

- MATHCOUNTS
- Choosing Transportation Summit
- Reviewer for National Science Foundation Graduate Research Fellowship Program
- Reviewer for DoD SMART Scholarship Program

## **Other Experience**

**Salsa Dance Instructor**, SalsaTech, Virginia Tech, Blacksburg, VA Fall 2011-Summer 2014

**Salsa Head DJ**, SalsaTech, Virginia Tech, Blacksburg, VA Spring 2012-Summer 2014

## **Professional Affiliations**

- Member, American Society of Civil Engineers (ASCE)
- Member, American Society for Engineering Education (ASEE)
- Friend, Transportation Research Board (TRB) Committees
  - Standing Committee on Simulation and Measurement of Vehicle and Operator Performance
  - Standing Committee on Traffic Flow Theory and Characteristics
  - Standing Committee on Vehicle-Highway Automation
  - Standing Committee on Critical Transportation Infrastructure Protection
  - Standing Committee on Safety Data, Analysis and Evaluation
  - Standing Committee on Social and Economic Factors of Transportation
  - Standing Committee on Transportation Issues in Major Cities
  - Standing Committee on Transportation Network Modeling

## **Awards**

- UDC Faculty Excellence in Scholarly/Creative Works Award, 2023
- BEYA Modern-Day Technology Leader Award, 2023
- UDC-ASCE Outstanding Faculty Award, 2018

## **Computer Skills**

### **Programming Languages**

- MATLAB
- Python
- C++
- R
- VBA
- Tcl (Driving Simulator Scenario Coding)

## Software

- Driving Simulator: HyperDrive, CARLA
- Psychophysiology: Psychlab
- Traffic Simulation: CORSIM, VISSIM, TRANSIMS, INTEGRATION
- Transportation Planning: TransCAD, Synchro, HCS, Cube
- GIS: ArcGIS, QGIS
- CAD: Civil 3D, Microstation

## Publications

1. **B. Higgs** and U. Patil, “Integrating Climate Change Into Engineering Education,” accepted for presentation at the 2024 ASEE Mid-Atlantic Conference, Farmingdale, NY, 2024
2. **B. Higgs** and G. Ozkula, “Fostering the Development of Engineering Skills Using Online Tools,” accepted for presentation at the 2024 ASEE Mid-Atlantic Conference, Farmingdale, NY, 2024
3. D. Jeong, P. Behera, **B. Higgs**, and S. Ji, “Designing an Interactive Web-based Rainfall Analysis System,” IEEE VIS: Visualization & Visual Analytics Conference, 2024
4. **B. Higgs** and A. Zeytinci, “Using VBA to Automatically Generate Individualized Student Assignments,” ASEE Mid-Atlantic Spring 2017 Meeting, Baltimore, MD, 2017
5. **B. Higgs** and M. Golias, “Multi-Level Multi-Objective Vulnerability Assessment of Transportation Networks,” Transportation Research Board 96th Annual Meeting, Washington D.C., 2017
6. **B. Higgs**, A. Naimi, M. Golias, and S. Mishra, “[An Innovative Approach to Solve the Network Design Problem Concerning Intelligent Vulnerabilities](#),” presented at the Transportation Research Board 95th Annual Meeting, Washington D.C., 2016
7. **B. Higgs** and M. Abbas, “[Segmentation and Clustering of Car-Following Behavior: Recognition of Driving Patterns](#),” IEEE Intelligent Transportation Systems Transactions: Special Issue on Uncertainty in Computational Traffic Models, 2015.
8. **B. Higgs**, “[Emotional Impacts on Driver Behavior: An Emo-Psychophysical Car-Following Model](#),” Ph.D., Department of Civil and Environmental Engineering, Virginia Polytechnic Institute and State University, 2014.
- 4b.<sup>1</sup> P. Biegler, “Still on My Tail, the Terrors of Tailgating.” *The Age*, October 29, 2015.  
<http://www.theage.com.au/national/still-on-my-tail-the-terrors-of-tailgating-20151027-gkjs5q>.
9. **B. Higgs** and M. Abbas, “[Experimental Design for a Psychophysiological Driving Simulator Study](#),” in Intelligent Transportation Systems (ITSC), 17th International IEEE Conference on, 2014
10. **B. Higgs** and M. Abbas, “[Identification and Classification of State-Action Clusters of Car-following Behavior](#),” in Intelligent Transportation Systems (ITSC), 17th International IEEE Conference on, 2014
11. **B. Higgs** and M. Abbas, “[Development of an Emotional Car-following Model](#),” in Intelligent Transportation Systems (ITSC), 17th International IEEE Conference on, 2014

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<sup>1</sup> Newspaper article quoting and referencing me and my research

12. M. Abbas, **B. Higgs**, S. Machiani, "[Integrated Real-Time Data Collection and Safety Improvement System at Signalized Intersections](#)," in Intelligent Transportation Systems (ITSC), 17th International IEEE Conference on, 2014
13. **B. Higgs** and M. Abbas, "[Multi-Resolution Comparison of Car-Following Models using Naturalistic Data](#)," presented at the Transportation Research Board 93rd Annual Meeting, Washington D.C., 2014.
14. **B. Higgs** and M. Abbas, "[A two-step segmentation algorithm for behavioral clustering of naturalistic driving styles](#)," in Intelligent Transportation Systems-(ITSC), 2013 16th International IEEE Conference on, 2013, pp. 857-862.
15. **B. Higgs** and M. Abbas, "A Cross-Validation of Car and Truck Agents Using Naturalistic Data: One-Parameter Car-Following Model for Reducing Computational Burden of Multi-Agent Systems," presented at the Conference on Agent-Based Modeling in Transportation Planning and Operations, Blacksburg, VA, 2013.
16. M. Abbas, A. Medina, **B. Higgs**, L. Chong, A. Leonhardt, C. McGhee, et al., "[Driver Behavior In Traffic, Final Report](#)," Federal Highway Administration December 2012 2012.
17. M. Abbas, **B. Higgs**, L. Chong, and A. Medina, "[Combined Car-Following and Unsafe Event Trajectory Simulation using Agent Based Modeling Techniques](#)," in 2012 Winter Simulation Conference (WSC), 2012.
18. **B. Higgs**, M. Abbas, and A. Medina, "[Naturalistic Car Driver Behavior: A Comparison of Car-Following Models](#)," in 19th ITS World Congress, 2012.
19. M. Abbas, **B. Higgs**, and A. Medina Flintsch, "[Naturalistic Car Driver Behavior: Hybrid Wiedemann and Gazis-Herman-Rothery Model Calibration](#)," presented at the Transportation Research Board 91st Annual Meeting, Washington D.C., 2012.
20. M. Abbas, **B. Higgs**, A. Medina, and C. Y. Yang, "[Discriminant Analysis of Driver Behavior Before Safety Critical Events](#)," Advances in Transportation Studies, December 2011.
21. **B. J. Higgs**, "[Application of Naturalistic Truck Driving Data to Analyze and Improve Car Following Models](#)," Master's Thesis, Department of Civil and Environmental Engineering, Virginia Polytechnic Institute and State University, 2011.
22. M. Abbas, **B. Higgs**, A. Medina, and C. Yang, "[Identification of warning signs in car driving behavior before safety-critical events](#)," in Intelligent Transportation Systems (ITSC), 2011 14th International IEEE Conference on, 2011, pp. 873-878.
23. M. Abbas, **B. Higgs**, A. Medina, and C. D. Yang, "[Identification of warning signs in truck driving behavior before safety-critical events](#)," in Intelligent Transportation Systems (ITSC), 2011 14th International IEEE Conference on, 2011, pp. 558-563.
24. **B. Higgs**, M. Abbas, and A. Medina, "[Analysis of the Wiedemann Car Following Model over Different Speeds using Naturalistic Data](#)," presented at the Road Safety and Simulation, Indianapolis, Indiana, 2011.
25. M. Abbas, **B. Higgs**, A. Medina, and C. D. Yang, "[Discriminant Analysis of Driver Behavior During Safety Critical Events](#)," in 3rd International Conference on Road Safety and Simulation, Indianapolis, Indiana, 2011.

26. M. Abbas, **B. Higgs**, and A. Medina Flintsch, "[Comparison of Car-Following Models when Calibrated to Individual Drivers using Naturalistic Data](#)," presented at the Transportation Research Board 90th Annual Meeting, Washington D.C., 2011.
27. M. Abbas, **B. Higgs**, A. Medina, and C. Y. D. Yang, "A Hybrid Wiedemann-GHR Model Calibration using Naturalistic Driving Data," in The 1st Workshop on Traffic Behavior, Modeling and Optimization, Madeira Island, Portugal, 2010.
28. **B. Higgs**, M. Abbas, A. Medina, and C. Y. D. Yang, "Reconstructing the Wiedemann Model using Naturalistic Driving Data," presented at the TRB Traffic Flow Theory Committee (TFTC) Summer Meeting and Greenshields Symposium, Annecy, France, 2010.

## Memorandum

To: The Board of Trustees

From: Managing Director of Finance *David A. Franklin*

Date: June 17, 2025

Subject: Tenure Approval – Dr. Bryan Higgs, Division of Academic Affairs, School of Engineering and Applied Sciences

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## Conclusion

It is concluded that there is no fiscal impact associated with the granting of tenure to Dr. Bryan Higgs, Associate Professor at the University of the District of Columbia (UDC). The proposed resolution is for the approval of tenure for Dr. Bryan Higgs.

It has been recommended that Dr. Bryan Higgs, who joined the University as an Assistant Professor of Civil Engineering in 2017 be approved for tenure. The College Promotion and Tenure Committee, Division Chair for Engineering, Departmental Evaluation and Promotion Committee (DEPC), and College Promotion and Tenure Committee (CPTC) conducted thorough, independent reviews and prepared independent reports to the dean regarding tenure for Dr. Higgs.

## Background

The DEPC conducted a review of Dr. Bryan Higgs' tenure application in concert with his application for promotion to associate professor. Examinations of Dr. Higgs' performance in the areas of teaching, scholarship, and service were completed for the period 2017–2024. Vetting of all dossier content was completed at the levels of the program, Division, and College. All reviews endorse the strengths of Dr. Higgs' tenure and promotion dossier and conclude that he is a strong teacher-scholar and competitive tenure candidate. With expertise in climate change analytics and transportation engineering, Dr. Higgs' documented faculty performance exceeds University and broader higher education expectations for excellence and impact in Civil Engineering with particular focus on removing financial barriers for students, developing innovative curriculum, and advancing impactful scholarship. Dr. Higgs' contributions are validated by his student outcomes, publications, invitations, recognitions, and sustained contributions to developing innovative models in engineering education.

The recommendation of tenure for Dr. Higgs has been affirmed by the Dean, Chief Academic Officer, and President. The President has forwarded the recommendation for tenure to the Board of Trustees.

## Financial Impact

There are no anticipated risks at this time.