1. Name and Academic Rank
John C. Ryan, Ph.D., P.E., Associate Professor

2. Education
Ph.D. Civil Engineering, Virginia Tech, 2006
M.S. Civil Engineering, Virginia Tech, 1999
B.S. Civil Engineering with Honors, Virginia Tech, 1998

3. Academic Experience
The Citadel, School of Engineering, Civil and Environmental Engineering, Associate Professor, Charleston, SC 2024-Present
The Citadel, School of Engineering, Civil and Environmental Engineering, Assistant Professor, Charleston, SC 2019-2024
Virginia Tech, Research Assistant, Blacksburg, VA, 1997-1999.
Virginia Tech, Research Assistant, Blacksburg, VA, 2003-2006.

4. Non-Academic Experience
Ryan Structural Engineers, LLC, Founder and President Mount Pleasant, SC, February 2007-Present.
Structure Tech Construction Systems, Charleston, SC, Vice President of Engineering, Research and Development, 2006-2007.
Structural Engineering and Education Solutions, LLC, Charleston, SC Co-founder, 2004-2008
Starzer Brady Fagan & Associates, Inc., Design Engineers, Atlanta, GA February 2000-2003
Pitt-Des Moines, Internship-Structural Engineering Department, Pittsburgh, PA, May 1997-August 1997
Nichols Construction Company, Heavy Lift Planner, Baton Rouge, LA, 1995- 1997

5. Certification or Professional Registration
Professional Engineer - Florida
Professional Engineer - Georgia
Professional Engineer - North Carolina
Professional Engineer - South Carolina
Professional Engineer – Virginia

6. Current Memberships in Professional Organizations
Precast/Prestress Concrete Institute (PCI)
American Society of Engineering Educators (ASEE
American Society of Civil Engineers (ASCE)
American Institute of Steel Construction (AISC)
Pile Driving Contractors Associations (PDCA)

7. Honors and Award
National NCEES Engineering Education Award: Air Mobility Infrastructure Senior Capstone Design (2022)
Harry Saxe Teaching Award, The Citadel Department of Civil Engineering (2023)

8. Service Activities (within and outside of the institution)

PCI Prestressed Pile Committee – Vice Chair (2024-present)
PCI Prestressed Pile Committee – Voting Member (2019-present)
PCI Pile Producer's Committee – Voting Member (2019-present)

9. Relevant Publications and Presentations

Mays, T., Ryan, J. (2025). *PCI Bridge Design Manual: Chapter 20 Prestress Concrete Piles*. Precast Prestressed Concrete Institute.

Mays, T., Rashid, M., Seguirant, S., Aeleti, S., Hawkins, N., Mainka, A., Morgan, D., Ryan, J. C., Shrieves, G., Smith, N., Sritharan, S., Vali, A., Walter, C. (2024). PCI 142: Specification for Precast Prestressed Concrete Piles. *No*. Precast Prestressed Concrete Institute.

Mays, T., Ryan, J. C. (2024). Recommended Practice for Design, Manufacture, and Installation of Prestressed Concrete Piling. *PCI Journal*.

Ryan, J. C. (2023). Axial Load Limits for Prestress Piles. *No* (6th ed., vol. 21). Orange Park, FL: Pile Driver Contractors Association. https://www.piledrivers.org/publications/piledriver-magazine/

Ryan, J. C., PDCA South Carolina Chapter Meeting, "Axial Load Limits on Prestress Piles," Pile Driver Contractors Association (PDCA), Town and Country Hotel, Charleston, SC, United States. (November 9, 2023).

Nale, D., et al., *On-Line FE Exam Review Course Results in Effective Instructional Model.* Proceedings from the American Society for Engineering Education Southeastern, Conference, Charleston, SC. March 13, 2022.

Ryan, J.C. "Comparison of Prestress Pile Provisions of AASHTO LRFD and PCI 142". Presented to the AASHTO T-10 Committee, PCI Committee Days, Chicago, IL. September 22, 2022.

Ryan, J.C. "Efficient Structural Pile Design: Prestressed Concrete Pile Case Study". National PDCA Value Driven Webinar Series, February 15, 2022

Ghanat, S.T., Davis, W.J., Mays, T.W., Burke, R., Brown, K.T., and Ryan, J.C., *Engagement in Practice: Capstone Design of a Real-world Transportation Interchange Project.* Proceedings of the 128th American Society for Engineering Education Annual Conference, Virtual Meeting, July 2021.

Ryan, J.C., and Mays, T.W. "Overview and Recommendations of Axial Load Limit Research at The Citadel". Presented to the PCI Prestress Pile Committee, July 26, 2021. Presented and recorded online for national membership distribution through PCI.

Ryan, J. C., Mays, T. W. *Fuller Pile Design Guide*. (2021). The Citadel, Department of Civil and Environmental Engineering.

Ryan, J., Mays, T. W. (2021). "Axial Load Limits for Prestress Piles." *Structure Magazine*, American Society of Civil Engineers.

American Society of Civil Engineers (2021). *South Carolina Infrastructure Report Card*, ASCE, Reston, VA.

Mays, T. W., Ryan, J. C. (2020). *Axial Load Limit Considerations for 14 in. Prestressed Concrete Piles*. The Citadel, Department of Civil and Environmental Engineering.

Pinto, J., Ryan, J. C., Mays, T. W. (2020). *Parametric Study of Depth to Maximum Bending Moment of 12-inch, 14-inch, and 16-inch Prestress Concrete Piles Subject to Lateral Load*. Charleston, SC: The Citadel, Department of Civil and Environmental Engineering.

Ryan, J. C., Mays, T. W. *Fuller Pile Analysis and Design*. (2020). The Citadel, Department of Civil and Environmental Engineering. Binard, J.P., et. al. (2019). Recommended Practice for Design, Manufacture, and Installation of Prestressed Concrete Piling. *PCI Journal*, 119 (3), 2-34.

Ryan, J.C. (2019, October). *Efficient Design of Prestress Concrete Piles*. Presentation at The 2019 Engineers Conference for PDCA, Prairieville, LA.

Ryan, J.C. (2019, September). *Parametric Study of Depth to Maximum Bending Moment of 12-inch, 14-inch, and 16-inch Prestress Concrete Piles Subjected to Lateral Load.* Presentation to the Prestress Piling Committee, Chicago, IL.

Davis, W.J., et. al. (2019). "Measuring Undergraduate Student Design Self-Efficacy within an Undergraduate Civil Engineering Curriculum." *2019 ASEE Conference*, Tampa, FL.

Ryan, J. C. (2011). "Seismic Issues Relating to Deep Foundations: a Structural Engineers Perspective", Proceedings: Superpile 2011, Deep Foundations Institute, Hawthorne, NJ.

Ryan, J. C. (2011). "NASA Taurus II Rocket Launch Facility: A Case Study for Pile Driving Efficiency", Proceedings: PDCA 15th Annual International Conference, Pile Driving Contractors Association, Orange Park, FL.

Ryan, J. C. (2010). "Innovation in Spliced Prestressed Piles: Testing and Use of the Emeca Pile Splice", Proceedings: 35th Annual Conference on Deep Foundations, Deep Foundations Institute, Hawthorne, NJ.

Ryan, J. C. (2010). "Efficiency Through Spliced Prestressed Piles: Case Study of NASA Taurus II Rocket Assembly and Launch Complex", Proceedings: Superpile 2010, Deep Foundations Institute, Hawthorne, NJ.

Ryan, J.C. (2009). "Advancement in the U.S. Driven Pile Market Through Innovative Technology", Proceedings: Get Underground, (International Deep Foundations and Rock Engineering Conference in Helsinki, Finland), Finish Geotechnical Society.

Ryan, J.C. (2009). "Mechanical Pre-stress Concrete Pile Splices", Proceedings: 19th Annual Louisiana Civil Engineering Conference and Show, American Society of Civil Engineers-Louisiana.

Mays, T. W., Zeihl, P., and Ryan, J.C. (2008) "Limit State Assessment and Building Code Compliance for Standard 12-in. and 14-in. Emeca Pile Splice Joints", The Citadel.

10. Relevant Professional Development

2026 PCI Committee Days, San Antonio, TX
2026 PCI Conference and Precast Show, Kansas City, MO
2025 PCI Committee Days, Chicago, IL
2025 PCI Conference and Precast Show, Indianapolis, IN
2024 PCI Committee Days, Nashville, TN
2024 PCI Conference and Precast Show, Denver, CO
2023 PCI Committee Days, Tampa Bay, FL 2023
Faculty Workshop, "Safely Exploring AI for Student Learning", The Citadel, 2023
2023 PCI Conference and Precast Show, Columbus, OH
2022 PCI Committee Days, Chicago, IL
2022 PCI Conference and Precast Show, Kansas City, MO
2021 PCI Committee Days, Chicago, IL

2021 PCI Conference and Precast Show, New Orleans, LA
2020 PCI Committee Days, Chicago, IL
2020 PCI Conference and Precast Show, Fort Worth, TX
PDCA Engineers Conference, Prairieville, LA 2019
2019 PCI Committee Days, Chicago, IL
20219 PCI Conference and Precast Show Louisville, KY
The Citadel, School of Engineering, Mini-ExCEEd Workshop, 2019