



- Assembled and deployed turfgrass performance sensing technologies for precision monitoring and data collection.
- Collected and integrated soil moisture and surface data across multiple athletic field environments.
- Led a professional sports–affiliated research study evaluating turfgrass species and hybrid systems under simulated traffic conditions.
- Conducted controlled experiments assessing plant growth regulator efficacy under simulated traffic stress.
- Performed laboratory and field studies evaluating surface temperature dynamics of synthetic turf systems.
- Conducted wear simulation studies on synthetic turf systems, including fiber analysis and post-traffic assessment.
- Oversaw and maintained Kentucky bluegrass and bermudagrass research plots at Valentine, including recordkeeping of mowing height, aeration, verticutting, fertility, fungicide applications, topdressing, etc. as well as periodically performing maintenance operations.

**Playing Surface Data Technician Intern**

**May 2025 - August 2025**

Kansas City Current grounds crew, Kansas City, MO

**Graduate Research Assistant**

**May 2024 - May 2025**

School of Plant and Environmental Science, Blacksburg, VA

**Undergraduate Fellowship**

**May 2022 - June 2023**

Undergraduate Studies, Blacksburg, VA

**Undergraduate Researcher**

**May 2022 - August 2022**

Research Experience for Undergraduates (REU), Blacksburg, VA

**Field Assistant**

**January 2022 - May 2024**

School of Plant and Environmental Science, Blacksburg, VA

**Student Athlete**

**January 2020 - May 2024**

Virginia Tech Women’s Soccer, Blacksburg, VA

**TEACHING EXPERIENCE**

Penn State, Ph.D. Student

Teaching Assistant, *TURF 435 - Turf Nutrition*

**January 2026 - May 2026**

Virginia Tech, Undergraduate

Teaching Assistant, *Plant Pathology, Physiology, and Weed Science 4104 - Plant Pathology*

**January 2025 - May 2025**

**CERTIFICATIONS**

2. Certified Pennsylvania Pesticide Applicator: Category 00 (Core), Category 07 (Lawn & Turf), Category 18 (Demonstration & Research), Pennsylvania Department of Agriculture, Passed March 2026.
1. Virginia Cooperative Extension (VCE) Certified Turfgrass Professional, Virginia Tech School of Plant and Environmental Science, Blacksburg, VA

### **PUBLICATIONS**

2. **Veith**, A. J. (2026). *Quantifying Field Variability Effects on Surface Performance and Athletes* (Thesis, Virginia Tech).
1. **Veith**, A., Hensler, K., & McCall, D. (2025). Tolerance of blue grama to herbicides used during establishment of low-input residential lawns. *International Turfgrass Society Research Journal*.

### **ABSTRACTS (9 total, 8 lead author):**

9. **Veith**, A., McCall, D. S., Straw, C., Sandor, D., & Williams, J. (2025, November) How Variability within and between Natural Turfgrass and Synthetic Athletic Fields Impacts Athlete Safety and Performance. In CANVAS Annual Meeting. CANVAS.
8. **Veith**, A., Straw, C., McCall, D. S., & Sapkota, M. (2025, November) Preliminary Evaluation of a Portable L-Band Radiometer for Soil Moisture Assessment in a Professional Sports Stadium: Effects of Mounting Angle and Scan Direction. In CANVAS Annual Meeting. CANVAS.
7. **Veith**, A., McCall, D. S., Straw, C. M., Sandor, D., & Henderson, C. A. (2024, November). How Variability within Natural and Synthetic Athletic Fields Impacts Athlete Safety and Performance. In ASA, CSSA, SSSA International Annual Meeting. ASA-CSSA-SSSA.
6. **Veith**, A., McCall, D. S., Dickson, K. H., Roberson, T., Sandor, D., Tucker, M., & Burbrink, C. (2024, November). Spring Dead Spot and Winter Injury: How Their Presence on Athletic Fields Can Impact Athlete Safety and Performance. In ASA, CSSA, SSSA International Annual Meeting. ASA-CSSA-SSSA.
5. **Veith**, A., Hensler, K., & McCall, D. S. (2023, October). Improving Blue Grama Seedling Establishment As a Low Input Residential Lawn Grass Using Post-Emergent Herbicides. In ASA, CSSA, SSSA International Annual Meeting. ASA-CSSA-SSSA.
4. **Veith**, A. (2023, October). Distribution of Winter Injury on Bermudagrass Athletic Fields Relative to Athlete Movement. In ASA, CSSA, SSSA International Annual Meeting. ASA-CSSA-SSSA.
3. **Veith**, A., Roberson, T., & McCall, D. S. (2023, October). Spring Dead Spot and Winter Injury Impacts on Athletic Field Playability and Safety. In ASA, CSSA, SSSA International Annual Meeting. ASA-CSSA-SSSA.
2. Roberson, T. L., **Veith**, A., Tucker, M., O'Donnell, K., Shrift, Z., & McCall, D. S. (2022, November). Investigating How Spring Dead Spot Influences Surface Dynamics of Athletic Fields. In ASA, CSSA, SSSA International Annual Meeting. ASA-CSSA-SSSA.
1. **Veith**, A., Roberson, T., & McCall, D. S. (2022, November). Spring Dead Spot Impact on Athlete Safety and Performance. In ASA, CSSA, SSSA International Annual Meeting. ASA-CSSA-SSSA.

## **EXTENSION/POPULAR PRESS ARTICLES**

7. **Veith, A.** (2025, September). *Insights from an internship*. *SportsField Management*, 41(9), 30. Retrieved from <https://read.epgmediallc.com/sportsfield-management-september-2025/0031270001756233157/p30>.
6. **Veith, A.** (2025, August). *How Variability Impacts the Athlete: Quantifying Key Metrics Within and Between Natural and Synthetic Surfaces*. *SportsField Management*, Retrieved from <https://read.epgmediallc.com/sportsfield-management-august-2025/0959593001753878058>.
5. **Veith, A.** (2025, April). *Neopestalotiopsis on strawberries: What growers should know*. *National Plant Diagnostic Network Newsletter*. Retrieved from [https://www.npdn.org/newsletter/2025/04/neopestalotiopsis\\_strawberries](https://www.npdn.org/newsletter/2025/04/neopestalotiopsis_strawberries).
4. **Veith, A.** (2025, January). *How Variability Within and Between Natural and Synthetic Athletic Fields Impacts Athlete Safety and Performance*. *Virginia Turfgrass Journal*. Retrieved from <https://issuu.com/leadingedgepubs/docs/va-turfgrass-journal-2025-jan-feb>.
3. **Veith, A.** (2024, September). *Spring Dead Spot and Winterkill*. *SportsField Management*, Retrieved from <https://sportsfieldmanagementonline.com/2024/09/03/spring-dead-spot-and-winterkill/17135/>.
2. **Veith, A.** (2024, August). *Spring Dead Spot and Winterkill: A Threat to Athlete Safety and Performance*. *SportsField Management*, Retrieved from <https://read.epgmediallc.com/sportsfield-management-august-2024/0989985001724855273/p30>.
1. **Veith, A.** (2022, November). *Spring Dead Spot: The Disease that is ‘Springing’ to Influence Player Safety on Athletic Fields*. *Virginia Turfgrass Journal*. Retrieved from <https://issuu.com/leadingedgepubs/docs/va-turfgrass-journal-2022-nov-dec/22>. Podcast form: <https://www.youtube.com/watch?v=zOf4qmTJFCK>.

## **PRESENTATIONS AND SPEAKING EXPERIENCE**

35. “Understanding Turfgrass Diseases”, Professional Pest Managers School, East Earl, PA, March 2026.
34. “How Field Variability Impacts the Athlete”, guest lecture for TURF9110A- Special Topics in Turfgrass, Penn State, February 2026.
33. “How Field Variability Impacts the Athlete”, University of Guelph 35th Annual Ontario Turfgrass Symposium, Guelph, Ontario, February 2026.
32. “Spray Application Technologies in Turfgrass”, Winter Turf & Ornamentals School Workshop, Grantville, PA, February 2026.
31. “Trust the Journey: Navigating Career Transitions with Confidence and Finding Success”, Sports Field Management Association (SFMA) Annual Conference, Fort Worth, TX, January 2026.

30. “Professional Baseball Field Surfaces”, Professional Baseball Sports Field Managers Special Interest Group, Sports Field Management Association (SFMA) Annual Conference, Fort Worth, TX, January 2026.
29. “Preliminary Evaluation of a Portable L-Band Radiometer for Soil Moisture Assessment in a Professional Sports Stadium: Effects of Mounting Angle and Scan Direction” (poster), Sports Field Management Association (SFMA) Annual Conference, Fort Worth, TX, January 2026.
28. “Groundskeeper Chats” Podcast, Pioneer Paint, January 2026.
27. “Quantifying the Impact of Field Variability on Surface Performance and the Athlete”, Virginia Sports Field Management Association (VSFMA) Symposium, Lynchburg, VA, December 2025.
26. “Preliminary Evaluation of a Portable L-Band Radiometer for Soil Moisture Assessment in a Professional Sports Stadium: Effects of Mounting Angle and Scan Direction” (poster), CANVAS Annual Meeting, Salt Lake City, UT, November 2025.
25. “How Variability Within and Between Natural Turfgrass and Synthetic Athletic Fields Impacts Athlete Safety and Performance”, CANVAS Annual Meeting, Salt Lake City, UT, November 2025.
24. “Evaluating Soil Moisture on Sports Fields With a Portable L-Band Radiometer”, Virginia Tech Turfgrass Research Center Field Day, Blacksburg, VA, August 2025.
23. “The Science Behind the Pitch: Surface Testing at CPKC Stadium and Training Grounds”, Missouri-Kansas Sports Field Management Association (MOKAN SFMA) Chapter Field Day, Kansas City, MO, June 2025.
22. “Grass Clippings” Podcast Episode 5, Pure Seed, Virtual, April 2025.
21. “Quantifying Field Variability and Athlete–Surface Interactions”, AstroTurf Business Development Research Presentation, Dalton, GA, March 2025.
20. “Leveling the Playing Field: How Pests and Stresses Impact Playability”, W.S. Connelly Pesticide Recertification Webinar, Virtual, March 2025.
19. “Leveling the Playing Field: How Diseases, Weeds, and Other Stressors Impact Field Playability”, Mid-Atlantic Sports Field Management Association (MASFMA) Spring Education Event – M&T Bank Stadium, Baltimore, MD, February 2025.
18. “Leveling the Playing Field: How Pests and Stresses Impact Playability”, Sports Field Management Association Continuing Education Virtual Webinar, Virtual, January 2025.
17. “Spring Dead Spot and Winter Injury: How Their Presence on Athletic Fields Can Impact Athlete Safety and Performance”, American Society of Agronomy (ASA) Annual Meeting, San Antonio, TX, November 2024.
16. Thomas Dale High School, Chester, VA — Guest presentation to high school turfgrass students on experiences as a Virginia Tech graduate student and Turfgrass Club officer, September 2024.
15. “How Variability Within Natural and Synthetic Athletic Fields Impacts Athlete Safety and Performance” (poster), Virginia Tech School of Plant and Environmental Sciences, Blacksburg, VA, September 2024.
14. “Field Variability and Athlete Safety”, Virginia Sports Field Management Association (VSFMA) Regional Field Day, Portsmouth, VA, August 2024.
13. “Field Variability and Athlete Safety”, Virginia Tech Turfgrass Research Center Field Day, Blacksburg, VA, August 2024.

12. Virginia 4-H Summer Camp, Virginia Tech, Blacksburg, VA — Outreach presentation to approximately 200 rising senior high school students on sports field management, hands-on use of field testing equipment, and the role of surface management in athlete safety and performance, June 2022, 2023, 2024.
11. “Spring Dead Spot and Winterkill Impacts on Athletic Field Playability and Safety” (poster), Pure Seed Field Day, Rolesville, NC, June 2024.
10. “Spring Dead Spot and Winter Injury Impacts on Athletic Field Playability and Safety”, Independence Golf Course Field Day, Richmond, VA, May 2024.
9. “Spring Dead Spot and Winterkill Impacts on Athletic Field Playability and Safety”, W.S. Connelly Pesticide Recertification Webinar, Virtual, March 2024.
8. “Distribution of Cold-Related Injury on Bermudagrass Athletic Fields Relative to Surface Firmness” (poster), American Society of Agronomy (ASA) Annual Meeting, St. Louis, MO, November 2023.
7. “Improving Blue Grama Seedling Establishment as a Low-Input Residential Lawn Grass Using Post-Emergence Herbicides” (poster), American Society of Agronomy (ASA) Annual Meeting, St. Louis, MO, November 2023.
6. “SDS and Winterkill Impacts on Field Playability and Athlete Safety”, American Society of Agronomy (ASA) Annual Meeting, St. Louis, MO, November 2023.
5. “Field Playability and Athlete Safety”, Virginia Tech Turfgrass Research Center Field Day, Blacksburg, VA, August 2023.
4. “The ‘Impact’ Turfgrass Diseases Have on the Surface Dynamics of Athletic Fields”, Independence Golf Course Field Day, Richmond, VA, May 2023.
3. “Spring Dead Spot Impact on Athlete Safety and Performance” (poster), Virginia Tech Turfgrass Research Center Field Day, Blacksburg, VA, August 2022.
2. “Spring Dead Spot Impact on Athlete Safety and Performance” (poster), American Society of Agronomy (ASA) Annual Meeting, Baltimore, MD, November 2022.
1. “Spring Dead Spot Impact on Athlete Safety and Performance” (poster), Research Experience for Undergraduates (REU), Blacksburg, VA, August 2022.

### **PROFESSIONAL ASSOCIATIONS**

- Pennsylvania Recreation & Park Society (PRPS) student member (2026 - present)
- Golf Course Superintendents Association of America (GCSAA) student member (2025 - present)
- Greater Pitt GCSAA (GPGCSAA) student member (2025 - present)
- National Athletic Trainers’ Association (NATA) student member (2025 - present)
- Pennsylvania Turf Council (PTC) student member (2025 - present)
- Sports Field Management Association (SFMA) student member (2023 - present)
- American Society of Agronomy (ASA) student member (2022 - present)
- Virginia Sports Field Management Association (VSFMA) student member (2022 - present)

### **SELECTED SERVICE**

- Moderator for the Northeastern Pennsylvania Turfgrass Council Conference at the Mohegan Pennsylvania Casino in Wilkes-Barre, PA (February 2026)

- Moderator for the Eastern Pennsylvania Turfgrass Council Conference at the Shady Maple Smorgasbord in East Earl, PA (January 2026)
- Volunteer for the high school National Turfgrass Science Invitational (NTSI) event. Assisted in judging student practicums and scoring (SFMA Conference, January, 2026)
- Note taker for the Women’s Forum Luncheon (SFMA Conference, January, 2026)
- Crop Science Society of America C-5 Division Public Outreach Chair (November 2025 - present)
- Agronomy, Crop, and Soil Science Societies Congressional Visits Day (February 2025)
- Turfgrass Club at Virginia Tech club secretary (May 2024 - May 2025)
- Hosted Virginia Tech School of Plant and Environmental Science Booth at the Glenvar High School career fair in Salem, VA (November 2024)
- Turfgrass Club at Virginia Tech club vice president (May 2023 - May 2024)
- Next Level Leadership Academy at Virginia Tech (January 2020 - April 2023)
  - Was selected as a ‘Next Level Leader’ through recommendations from other student athletes

### **AWARDS, RECOGNITION, AND SCHOLARSHIPS**

- Don Joyce Memorial Scholarship Recipient, Pennsylvania Parks and Rec Society (PRPS), February 2026.
- First place female in the Health in Action 5K, Golf Course Superintendents Association of America (GCSAA), February 2026.
- Dr. James Watson Graduate Scholarship, Sports Field Managers Association (SFMA), January 2026.
- Selected for competitive 40% editorial fee waiver to support academic manuscript preparation, Laura Bassi Scholarship, December 2025.
- Interviewed by the Virginia Farm Bureau for the *Real Virginia* television program to discuss my transition from Division I student-athlete to graduate student researcher, and to highlight the connection between turfgrass science, athletic performance and safety, and the ecological value of well-managed playing surfaces ([https://www.youtube.com/watch?v=fAHL\\_wHHeTI](https://www.youtube.com/watch?v=fAHL_wHHeTI)), December 2025.
- First place marathon finisher for females ages 20-24, InFirst Bank Veterans Marathon in Blairsville, PA, November 2025.
- Louis & Ginger Brooking Scholarship, June 2025.
- Outstanding Graduate Student Award Nominee, Virginia Tech, March 2025.
- W.S Connelly Pesticide Recertification - second place in graduate student presentation competition, March 2025.
- Virginia State Golf Association (VSGA) VIP Scholarship - Turfgrass Award, December 2024.
- Selected to attend the TogetHER Summit at the Solheim Cup, Robert Trent Jones Golf Club, September 2025.
- Research Feature: “Research into Field Conditions Means Better Safety for Athletes”, Virginia Tech News

([https://news.vt.edu/content/news\\_vt\\_edu/en/videos/k/2024/09/1\\_wb1rk5dt.html](https://news.vt.edu/content/news_vt_edu/en/videos/k/2024/09/1_wb1rk5dt.html)),  
September 2024.

- Project featured by Virginia Tech News and promoted by the official Virginia Tech X account, reaching over 10,000 views.
- Collegiate Weed Science Competition- third place, Northeastern Weed Science Society, Raleigh, NC, July 2024.
- Bill Rose Foundation Travel Scholarship, March 2024.
- SAFE Scholarship Recipient, Sports Field Management Association (SFMA), January 2024.
- Featured on the WSLs Channel 10 News for an interview on Safety Concerns on Artificial Turf Fields, September 2023.
- Luther and Alice Hamlett Research Support Scholarship, Fall 2023 – Spring 2024.
- Jim Claxton Scholarship, July 2023.
- Dennis Dean Undergraduate Research Scholarship, May 2023.
- W.S Connelly Pesticide Recertification - second place in graduate student presentation competition, March 2024.
- Best Teammate Award, Virginia Tech Women's Soccer, 2023 season (August - November).
- Goal featured on Sports Center Top 10 (#2), September 2021.
- Deans list and Athletic Director Honor Roll, January 2020 - May 2024.

### **OTHER WORK EXPERIENCE**

- **Grounds Assistant**, Kansas City Current Grounds Crew (United States versus New Zealand women's professional soccer match), Kansas City, MO, October 2025
- **Grounds Assistant**, Kansas City Current Grounds Crew (National Women's Soccer League Final Match: Washington Spirit versus Orlando Pride), Kansas City, MO, November 2024
- **Grounds Assistant**, Virginia Tech Grounds Crew, Blacksburg, VA, June 2023 - May 2025
- **Assistant Field Manager**, Virginia Tech Turfgrass Research Center, Blacksburg, VA, June 2023 - May 2025
- **Undergraduate Research Assistant**, Virginia Tech Small Grains Breeding, Blacksburg, VA, August 2021 - May 2022
- **Undergraduate Research Assistant**, Seitz Lab, Flume Lab, and greenhouses at Virginia Tech, Blacksburg, VA, August 2021 - December 2021
- **Intern**, Counseling and Athletic Mental Performance (CAMP) at Virginia Tech, Blacksburg, VA, May 2021 - August 2021
- **Undergraduate Research Assistant**, Fralin Biomedical Research Lab at Virginia Tech, Blacksburg, VA, August 2020 - May 2021