

Timothy A. Murray

Curriculum Vitae

Last updated: July 24, 2026

U.S. Army Research Institute of Environmental Medicine
Data and Decision Sciences Program
10 General Greene Ave.
Natick, MA 01760

🌐 timmurrayecon.com
✉ timmurrayecon@gmail.com
✉ timothy.a.murray29.civ@health.mil
✕ [TimMurray54](#)
☎ (757) 879-0180

Professional Experience

U.S. Army Research Institute of Environmental Medicine

Health Economist and Research Statistician

February 2024 – Present

Director, Data and Decision Sciences Program

February 2024 – Present

Old Dominion University

Adjunct Professor, Department of Economics

May 2026 – Present

Bentley University

Adjunct Assistant Professor, Department of Economics

September 2024 – Present

Virginia Military Institute

Assistant Professor, Department of Economics and Business

August 2019 – January 2024

University of Connecticut

Instructor of Record, Department of Agricultural and Resource Economics

August 2015 – May 2019

Education

Ph.D.	Agricultural and Resource Economics, University of Connecticut	2019
M.A.	Economics, Old Dominion University	2013
M.S.	Business Administration (MBA), Old Dominion University	2013
B.A.	Economics (Minor: Applied Mathematics), Old Dominion University	2010

Professional Development

Certificate of Leader Development	National Security and Strategy, U.S. Army War College	2026
-----------------------------------	---	------

Peer-Reviewed Publications

1. **Murray, TA**, Sellers, JH, Friedl, KE, Charkoudian, N, Giersch, GEW. 2026. “[The Influence of Interindividual Factors on Army Combat Fitness Test Performance.](#)” *Medicine & Science in Sports & Exercise*. (Online Ahead of Print)
2. Giersch, GEW, Greenfield, AM, Brazelton, SC, Alba, BK, Bodurtha, PO, Caldwell, AR, Mayer, TA, **Murray, TA**, Ryan, BJ, Salgado, RM, Seeley, AD, Charkoudian, N. 2025. “[Distinct physiological responses to heat acclimation in men and women lead to similar thermal adaptations in both sexes.](#)” *Journal of Applied Physiology*, 139(3): 863-872.
3. Goodwin, KC, Giersch, GEW, **Murray, TA**, DeGroot, DW, and Charkoudian, N. 2024. “[Sex Differences in Biomarkers of End-Organ Damage following Exertional Heat Stroke in Humans.](#)” *Journal of Applied Physiology*, 137(5): 1434-1445.
4. **Murray, T** and Dunn, RA. 2022. “[Household Production, Home Improvement, and Housing Investment among Older Americans.](#)” *Journal of Housing Economics*, 56.

5. Cobb, BR[†], Murray, T[†], and Smith, JS[†]. 2022. “Adjustable Consumption Model for Retirees to Balance Spending and Risk.” *Journal of Economics and Finance*, 46: 420–451.
6. Murray, T. 2021. “Stay-at-Home Orders, Mobility Patterns, and Spread of COVID-19.” *American Journal of Public Health*. 11(6): 1149–1156.
7. Ang, JP[†] and Murray, T[†]. 2021. “Education in Mathematics and the Spread of COVID-19.” *Eastern Economic Journal*. 47: 571–589.

† Denotes Equal Contribution

Professional Reports and Other Publications

1. Murray, TA. 2026. “2025 Physical Fitness and Body Composition Performance Annual Report.” For the *Deputy Chief of Staff for the Army, G-1*.
2. Murray, TA. 2026. “Relationship between MSKI and OSUT Graduation Rates in 31 EN BN.” for the *U.S. Army Recruiting Command*
3. Murray, TA and McClung, HL. 2026. “Physical Fitness Performance, BMI, and OPAT Outcomes for Adolescent Soldiers (Ages 17-19).” For the *Office of the Undersecretary of War (Personnel & Readiness)*.
4. Murray, TA. 2026. “H2F Area Support Team Pilot Study Six Month Evaluation.” For the *U.S. Army I Corps*.
5. Murray, TA. 2026. “MSKI Temporary Profiles in III Corps BDEs: Probability of Temporary Profile, Limited Duty Days, Relationship of BMI, and Impact of H2F.” For the *U.S. Army III Armored Corps*.
6. Murray, TA. 2025. “The Impact of H2F on Body Composition.” For the *Center for Initial Military Training*.
7. Murray, TA. 2025. “The Impact of H2F on the ACFT.” For the *Center for Initial Military Training*.
8. Murray, TA. 2025. “Suicides, Attempts, and Ideation in the III Armored Corps from 2020-2024.” For the *U.S. Army III Armored Corps*.
9. Murray, TA. 2025. “Musculoskeletal Injuries in the III Armored Corps from 2018-2024.” For the *U.S. Army III Armored Corps*.
10. Murray, TA. 2025. “GLP1 use for Weight Control in the Army.” For the *Defense Health Agency*.
11. Murray, TA. 2025. “Deployability and Medical Readiness in FORSCOM Brigades.” For *U.S. Army Forces Command (FORSCOM)*.
12. Murray, TA. 2025. “2024 Physical Fitness and Body Composition Performance Annual Report.” For the *Deputy Chief of Staff for the Army, G-1*.
13. Murray, TA. 2024. “Report on H2F Metric Analyses.” For the *Office of the Surgeon General and Defense Health Agency*.
14. McClung, HL[†] and Murray, TA[†]. 2024. “Relationship Between Fitness and Body Composition.” For the *Defense Department Advisory Committee on Women in the Services (DACOWITS)*.
15. Murray, TA. 2024. “2023 Physical Fitness and Body Composition Performance Annual Report.” For the *Deputy Chief of Staff for the Army, G-1*.

† Denotes Equal Contribution

Published Abstracts

1. McCarthy, KG, Brazelton, SC, **Murray, TA**, Salgado, RM, Charkoudian, N, Giersch, GEW. 2025. "Prediction of sweating rate during heat acclimation in men and women." *American Physiology Society*.
2. Bradbury, KE, Greenfield, AM, Brazelton, SC, Goldenstein, SJ, **Murray, TA**, Charkoudian, N, Giersch, GEW. 2025. "Sex hormones may Modulate Thermoregulatory Responses to Heat Acclimation in Women." *American Physiology Society*.

Working Papers

1. **Murray, TA**, Subedi, M, Richardson, MD, Margolis, LM, Dummar, AR, Faulkenberry, JB, Sellers, JH. "The U.S. Army's Holistic Health and Fitness System Improved Fitness and Physical Performance as Measured by the Army Combat Fitness Test"
2. **Murray, TA**, Thompson, AG, Wolff, A, Richardson, MD, Dummar, AR, Bigelman, KA. "Impact of an Interdisciplinary Occupational Health System on Recovery from Musculoskeletal Injuries"
3. Giersch, GEW, Goodwin, KC, **Murray, TA**, Charkoudian, N, DeGroot, DW. "Quantifying Relative Importance of Risk Factors for Exertional Heat Illness."
4. **Murray, TA** and Dunn, RA. "Housing Equity Extraction from Older Adults via Reduction in Home Improvement"
5. **Murray, TA**. "Pensions and Homeownership After the Great Recession"
6. **Murray, TA**. "Do Potential Future Health Shocks keep Older Americans from using Their Housing Equity?"

Research in Progress

1. The Relationship between BMI and Recovery from Musculoskeletal Injuries (with Caleb Johnson and Kate Guerriere Aaron)
2. Obesity and Weight Management in the US Armed Forces (with Brenda Bustillos, and Tracey Smith)
3. The Impact of the Health and Holistic Fitness Program (H2F) on Soldier Health and Performance
4. The Risk and Impact of Musculoskeletal Injuries in US Army
5. Risk Factors of Heat Illness and the Impact on Return to Duty in the US Military
6. Risk Factors of Cold Injuries and the Impact on Return to Duty in the US Military (with John Castellani, Billie Alba, Joseph Shevchick, and Afton Seeley)
7. Confederate Iconography and Property Values (with Steven Landgraf and Sam Allen)
8. Economic Impact of a Professional Sports Franchise on a Local Economy (with Chance Newman*)
9. Performance Testing Characteristics Associated with Success in Division I College Football Players (with Vy Nguyen*, Jack Johnson, and Daniel A. Baur)

* Student co-author

Books in Progress

1. Quantitative Tools for Economics and Business (textbook)

Media Coverage

1. [5 Ways To Know Whether An MBA Is Right For You](#). December 3, 2024. *Business Because*.
2. [Survey: Do Millennials Have Fewer Financial Opportunities Than Prior Generations?](#) September, 14 2021. *Money Crashers*.
3. [Downsizing, Housing, and Debt](#). January 17, 2020. *With Good Reason* on National Public Radio (NPR).

Research Grants and Contracts

Co-Investigator, *Got Your Back: Domestic Violence Prevention and Military Readiness*. \$30,000. Congressionally Directed Medical Research Program. 2025-2029.

Principal Investigator, *A Retrospective Analysis of Blast Overpressure Exposures*. \$500,000. U.S. Army Medical Research and Development Command, 2025-2026.

Principal Investigator, *Holistic Health and Fitness Return on Investment*, \$500,000. Center for Initial Military Training, 2024-2026.

Principal Investigator, *Confederate Iconography and Property Values*. \$10,000. Virginia Military Institute, Grant-in-Aid of Research. 2023-2024.

Awards and Honors

2026 – Outstanding Department of War Civilian Employee Award, *U.S. Department of War*
2026 – Commander’s Coin from HON Daniel Driscoll. *Secretary of the Army*
2026 – Commander’s Coin from GEN James Mingus, *Vice-Chief of Staff of the U.S. Army*
2026 – Commander’s Coin from LTG David Francis, *U.S. Center for Initial Military Training*
2026 – Civilian Service Achievement Medal, *U.S. Army*
2025 – Old Dominion University Alumni Association 40 Under 40, *Old Dominion University*
2024 – Commander’s Coin from BG Deydre Teyhen, *U.S. Army Medical Specialist Corps*
2023 – Certificate of Excellence, *Virginia Military Institute*
2023 – Commander’s Coin from MG Cedric Wins, *Virginia Military Institute*
2023 – Nominee, Thomas Jefferson Teaching Award, *Virginia Military Institute*
2023 – Student-Athlete Faculty Recognition Award, *Virginia Military Institute*
2022 – Jackson-Hope Grant for Faculty Travel, *Virginia Military Institute*
2020 – Jackson-Hope Grant for Faculty Travel, *Virginia Military Institute*
2019 – Finalist, Outstanding Graduate Student Teaching Award, *University of Connecticut*
2019 – Doctoral Dissertation Fellowship, *University of Connecticut*
2018 – Bishop-Carder Scholarship, *University of Connecticut*
2018 – CAHNR Excellence in Graduate Student Teaching Award, *University of Connecticut*
2016 – Letter of Recognition for Excellence of Teaching from Provost, *University of Connecticut*
2017 – Bishop-Carder Scholarship, *University of Connecticut*
2016 – Bishop-Carder Scholarship, *University of Connecticut*
2015 – Letter of Recognition for Excellence of Teaching from Provost, *University of Connecticut*
2015 – Bishop-Carder Scholarship, *University of Connecticut*
2013 – Economics Pre-Doctoral Fellowship, *University of Connecticut*

Conferences and Invited Presentations

- 2026 International Congress for Soldier Physical Performance (ICSPP)
Holistic Health and Fitness (H2F) Symposium
Military Health System Research Symposium (MHSRS)
Army Medical Department (AMEDD) Junior Leadership Course
Army Medical Department (AMEDD) Iron Majors
USARIEM Science Seminar
USARIEM Leadership Professional Development Series
- 2025 Military Health System Research Symposium (MHSRS)
U.S. Army Medical Specialist Corps (SP Corps) Leadership Professional Development Series
- 2024 U.S. Army Forces Command (FORSCOM)
USARIEM Science Seminar
- 2023 Southern Economic Association Annual Conference
Virginia Military Institute Board of Visitors
- 2022 Association for Public Policy Analysis and Management Annual Conference (APPAM)
Virginia Military Institute Brown Bag Seminar
- 2021 American Economic Association Annual Conference
United States Naval Academy Economics Seminar
- 2020 Association for Public Policy Analysis and Management Annual Conference (APPAM)
- 2019 Association for Public Policy Analysis and Management Annual Conference (APPAM)
Washington and Lee University Economics Seminar
- 2018 University of Connecticut Agricultural and Resource Economics Seminar
University of Connecticut Graduate Research Forum

Government Senior Leader Briefings

- 2026 Secretary of the Army, HON Daniel Driscoll, May 2026
Vice Chief of Staff of the U.S. Army (VCSA) GEN Christopher LaNeve, May 2026
Vice Chief of Staff of the U.S. Army (VCSA) GEN James Mingus, January 2026
U.S. Army Surgeon General (TSG) LTG Mary Izaguirre, January 2026
Office of the Under Secretary of War (P&R), Total Force Fitness, January 2026
- 2025 Vice Chief of Staff of the U.S. Army (VCSA) GEN James Mingus, September 2025
Commanding General of the Center for Initial Military Training, LTG David Francis, May 2025

Teaching

Old Dominion University

- Economic Decision Making (Graduate)

Bentley University

- Business Statistics

Virginia Military Institute

- Principles of Microeconomics
- Labor Economics
- Quantitative Tools for Economics and Business (Business Calculus and Statistics)
- Housing Economics and Public Policy
- Business Finance

University of Connecticut

- Business Finance
- Business Management

Research Mentorship

U.S. Army Research Institute of Environmental Medicine

Patrick Cummings Jr., ORISE Undergraduate Research Fellow, 2024-2025

Theo DelGizzi, ORISE Undergraduate Research Fellow, 2024 - 2025

George Saban, ORISE Undergraduate Research Fellow, 2024 - 2025

Virginia Military Institute

Collin Ironside, Undergraduate Honors Thesis, 2023

Noland Griffin, Undergraduate Honors Thesis, 2023

Vy Nguyen, Undergraduate Honors Thesis, 2023

Harris Burton, Undergraduate Honors Thesis, 2022

Robert Hoeft, Undergraduate Honors Thesis, 2021

Chance Newman, Summer Undergraduate Research, 2020

Service

U.S. Department of Defense

OUSW(P&R) Total Force Fitness Strategic Integration Group	2026 – Present
---	----------------

T2COM Musculoskeletal Injury Prevention Working Group	2025 – Present
---	----------------

Virginia Military Institute

Department Level

VMI/Washington & Lee Economics Seminar Coordinator	2021 – 2023
--	-------------

Ad Hoc Adjunct Instructor Search Committee, Member	2021 – 2023
--	-------------

Economics Curriculum Committee, Member	2020 – 2023
--	-------------

WELD Committee for Undergraduate Research, Member	2019 – 2023
---	-------------

Committee on Minors and Concentrations, Member	2019 – 2023
--	-------------

Hiring Committee for Tenure-Track Assistant Professor, Member	2022 – 2023
---	-------------

AACSB Subcommittee on Faculty Qualifications, Member	2021 – 2022
--	-------------

Hiring Committee for Tenure-Track Assistant Professor, Member	2019 – 2020
---	-------------

Institute Level

Cadet Investment Group, Faculty Advisor	2019 – 2023
---	-------------

Committee on Academic Advising, Member	2023 – 2023
--	-------------

Arts, Humanities, and Social Sciences Advisory Committee, Member	2023 – 2023
--	-------------

New Faculty Orientation Committee, Member	2021 – 2023
---	-------------

Institute Honors Committee, Member	2020 – 2023
------------------------------------	-------------

Brown Bag Seminar Coordinator	2021 – 2023
-------------------------------	-------------

Officer in Charge for Rat Challenge	2021 – 2022
-------------------------------------	-------------

Creative and Critical Thinking Subcommittee Capstone Rater	2020 – 2022
--	-------------

Referee Service

British Medical Journal (BMJ) Open, Eastern Economic Journal, International Journal of Intercultural Relations

Software and Programming Languages

Advanced: Stata, EViews, Microsoft Excel, L^AT_EX

Proficient: MATLAB, R

Novice: SAS

Affiliations

American Economic Association

American Society of Health Economists

AMSUS - Society of Federal Health Professionals

Association for Public Policy Analysis and Management

American Real Estate and Urban Economics Association

Certifications

Bloomberg Terminal Certification

Protecting Human Research Participants (PHRP) Training

CITI Social Behavioral Research Investigators and Study Coordinators