

KETRA L. RICE

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Professional Summary

Economist and policy researcher with over 15 years of experience leading interdisciplinary research in applied economics, public policy, and public health (10+ years in federal government). Proven track record of leading project teams of 8+ professionals, providing supervision and mentorship to early-career staff, and delivering high-impact health outcomes research. Authored 30+ peer-reviewed publications and book chapters. Skilled in quantitative and qualitative research methods, including econometric modeling, epidemiological analysis, simulation modeling, and qualitative data collection (interviews & focus groups). Proficient in managing and analyzing large datasets to inform evidence-based policy and program development.

Expertise & Technical Skills

Health Economics | Policy Analysis | Policy Evaluation | Health Outcomes Research | Epidemiology | Econometric Methods | Spatial Statistics | Data Science | Market Research | Stakeholder Engagement | Project Management

Software:

- **Statistical:** Stata, SAS, **Decision Analysis:** R, Python, MS Excel, **Simulation Modeling:** NetLogo, **GIS and Mapping:** ArcView, QGIS, Open Geoda

Datasets:

- Medicare Current Beneficiary Survey (MCBS), Adolescent Brain Cognitive Development (ABCD) Study, Behavioral Risk Factor Surveillance System (BRFSS), Youth Risk Behavior Surveillance System (YRBSS), National Longitudinal Study of Adolescent to Adult Health (Add Health), National Survey on Drug Use and Health (NSDUH), National Violent Death Reporting System (NVDRS), Healthcare Cost and Utilization Project (HCUP), Medical Expenditure Panel Survey (MEPS), American Community Survey (ACS)

Analyses:

- **Quantitative:** Difference-in-Differences, Regression Discontinuity, Longitudinal Data Analysis, Time-Series Analysis, Logit and Probit Regression, Multi-level Modeling, Decision Tree Analysis, Agent-Based Modeling, Epidemiology Methods
 - **Qualitative:** Thematic Analysis, Content Analysis
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Education**University of Florida, Gainesville, FL**

- **2024 – Master of Public Health** | Capstone: Examining the role of economic well-being in the relationship between adverse childhood experiences (ACEs) and suicidal behaviors in adulthood

The Ohio State University, Columbus, OH

- **2013 – Doctor of Philosophy - Public Policy** | Dissertation: A Multi-Method Analysis of the Role of Spatial Factors in Policy Analysis and Health Disparities Research
- **2007 – Master of Science - Agricultural, Environmental, and Development Economics** | Thesis: Measuring the Likelihood of Food Insecurity and Adult Consumption of Fruits and Vegetables in Ohio's Food Deserts

Alabama A&M University, Normal, AL

- **2003 – Master of Business Administration**
- **1997 – Bachelor of Science - Marketing & Minor in Psychology**

Professional Experience

Federal Government

Centers for Disease Control and Prevention (CDC), Atlanta, GA (2012-Present)

- **National Center for Injury Prevention and Control (NCIPC), Division of Injury Prevention (DIP) Economist, 08/2018 - Present**

- Assess the implementation costs of injury and violence prevention programs, as well as the broader societal economic burden of injury and violence in the United States – focus areas of opioid use disorder, traumatic brain injury, transportation safety, suicide, and adverse childhood experiences.
- Create and pilot economic evaluation tools, and offer technical support to CDC-funded injury prevention programs in applying these tools for program evaluation.
- Utilize advanced econometric techniques to model outcomes of public health interventions on reducing morbidity and mortality.
- Organize seminars and professional development events through the CDC Health Economics Research Group (HERG) to promote collaboration and knowledge-sharing on health economics and health policy topics; founded and led the HERG Health Equity Subcommittee to advance equity-focused research and initiatives within the field of economics.
- Develop agent-based models to explore risk and protective factors related to adolescent suicide, fostering collaboration with CDC experts and external partners in computer science, economics, systems modeling, suicide prevention, and statistics.
- Organize seminars through the NCIPC Modeling Workgroup to advance the use of system dynamics modeling, agent-based modeling, and microsimulation modeling in health policy research and decision-making.

- **National Center for Chronic Disease Prevention and Health Promotion (NCCDPHP), Office on Smoking and Health (OSH)**

- **Senior Service Fellow, 08/2016 – 08/2018**

- Modeled the health outcomes and economic impacts of tobacco control and prevention interventions using econometric analysis and microsimulation modeling.
 - Analyzed the impact of social and physical environmental characteristics on cigarette smoking prevalence using spatial statistical methods.
 - Initiated efforts to create a tobacco environment research atlas (TERA) for expanding current research on place-based disparities in tobacco consumption, and future analysis of tobacco production, distribution and consumption at the county and census tract level.
 - Conducted training and technical assistance on economic evaluation for state tobacco control partners and grantees to build capacity and support programming at the state level.

- **National Center for Chronic Disease Prevention and Health Promotion (NCCDPHP), Division of Cancer Prevention and Control (DCPC)**

- **Prevention Effectiveness (PE) Fellow, 08/2014-08/2016**

- Conducted policy and program evaluations for federally funded cancer prevention initiatives, including the National Breast and Cervical Cancer Early Detection Program (NBCCEDP) and the Colorectal Cancer Control Program (CRCCP), to inform evidence-based decision-making.
 - Led economic analyses to assess the cost-effectiveness and public health impact of cancer control strategies, supporting resource allocation and policy development.
 - Facilitated trainings for grantees and stakeholders on economic evaluation methods to build capacity and support program improvement across partner organizations.

- **Oak Ridge Institute for Science and Education (ORISE) Fellow, 08/2012-08/2014**

- Assisted in the development of survey instruments for collecting program data from grantees funded by the NBCCEDP and CRCCP, and designed data reports for dissemination to grantees.
 - Designed a resource allocation model for the allocation of funds to states, U.S. territories and tribal organizations. (*Computed the algorithm for allocating over \$154 million to 67 NBCCEDP grantees and over \$22 million to 29 CRCCP grantees.*)
 - Designed a mixed-methods evaluation study to assess the effectiveness of New Hampshire's CRCCP Patient Navigation Program. Served as the lead quantitative investigator in designing the study and assisted with qualitative data collection for the project.

International Consulting

- **CDC Foundation and Bloomberg Philanthropies Data for Health Initiative “Data to Policy” (D2P) Program, Lusaka, Zambia**
In-Country Mentor and Trainer, 02/01-17/2018
 - Conducted skills-based training for Zambian Ministry of Health course participants on how to use health and economic data to inform policy.
 - Delivered lectures on problem identification and root cause analysis, policy analysis, economic evaluation, assessing health impact, and drafting policy briefs.
 - Supported participants in the development and implementation of HPV and HIV prevention initiatives, contributing to public health outreach, education, and policy planning efforts.
 - Provided 1:1 mentoring to participants to guide the development of policy briefs aligned with the Zambian Ministry of Health’s strategic plan.

Academic Appointments

- **Spelman College, Department of Economics, Atlanta, GA (2017 – Present)**
Instructor
 - Economics of Poverty, Spring 2022; Spring 2023; Spring 2024; Spring 2025
 - Intermediate Microeconomic Theory, Fall 2023
 - Urban Economics, Spring 2020; Spring 2021
 - Principles of Microeconomics, Spring 2018; Fall 2018; Spring 2019; Fall 2019; Fall 2021; Fall 2022; Fall 2024
 - Introduction to Econometrics – 6-Course Lab Session, Fall 2017
- **Georgia State University, Andrew Young School of Policy Studies, Atlanta, GA (2011-2012; 2014; 2016; 2019)**
Instructor
 - Principles of Microeconomics, Fall 2011; Summer 2012; Spring 2016
 - Intermediate Microeconomics, Summer 2012; Spring 2014
 - Economics of Poverty and Public Policy, Spring 2012; Fall 2019
- **The Ohio State University, John Glenn School of Public Affairs (2008-2010)**
Instructor
 - Introduction to Public Policy, Winter 2011
 - Microeconomics (2-Day Training Session for Incoming Masters Students), Autumn 2009, 2010
Teaching Associate
 - Public Sector Economics, Autumn 2008, 2009, 2010
 - Public Finance, Winter 2008, 2010
 - Public Budgeting, Spring 2010

Policy Institutes

- **Health Policy Institute of Ohio, Columbus, OH**
Graduate Research Fellow, 06/2008-09/2009
 - Performed health policy-related research in the areas of Ohio health care reform, the 2008 and 2009 Ohio Family Health Surveys, the 2009 Ohio Employer Health Survey, and for select assignments relating to Ohio legislative activities.
 - Served as Co-Investigator for the design and analysis of the 2009 Ohio Employer Health Survey; Assisted with the development of the survey instrument and provided reports and analyses of states’ past and current survey activities.
 - Researched health information technology (HIT) and health information exchange (HIE) state initiatives and prepared reports of HIT/HIE best practices, implementation strategies, and barriers to implementation.
 - Served on the Ohio Health Information Partnership Advisory Board - Exchange Committee and developed policy recommendations for improving health information exchange in Ohio.
 - Responsible for scientific writing, statistical expertise, database manipulation, advanced literature reviews, program evaluation, and project management.

Publications & Presentations

Peer-Reviewed Publications

1. **Rice, K.**, Chen, J., Kakara, S., & Haddad, Y. Risk of Diminished Activities of Daily Living (ADLs) and Instrumental Activities of Daily Living (iADLs) Post an Older Adult Fall, Medicare Current Beneficiary Survey, 2015-2020 (*accepted – American Journal of Lifestyle Medicine*)
2. Maldonado, B. D., Schuerkamp, R., Martin, C. M., **Rice, K. L.**, Nataraj, N., Brown, M. M., ... & Giabbanelli, P. J. (2024). Guiding prevention initiatives by applying network analysis to systems maps of adverse childhood experiences and adolescent suicide. *Network Science*, 12(3), 234-260
3. Nataraj, N., Rikard, S. M., Zhang, K., Jiang, X., Guy, G. P., **Rice, K.**, ... & Losby, J. L. (2024). Public Health Interventions and Overdose-Related Outcomes Among Persons with Opioid Use Disorder. *JAMA Network Open*, 7(4), e244617-e244617.
4. **Rice, K. L.**, Ottley, P., Bing, M., McMonigle, M., & Miller, G. F. (2024). Costs of implementing teen dating violence and youth violence prevention strategies: Evidence from 5 CDC-funded local health departments. *Public Health Reports*, 139(3), 351-359.
5. Peterson C., Aslam M.V., **Rice K.L.**, Gupta N., Kearns M.C. (2023). Systematic review of per person violence costs. *Am J Prev Med*, 66(2), 342-350.
6. Schuerkamp, R., Liang, L., **Rice, K.L.**, & Giabbanelli, P.J. (2023). Simulation Models for Suicide Prevention: A Survey of the State-of-the-Art. *Computers*, 12(7), 132.
7. Giabbanelli, P.J., **Rice, K.L.**, Nataraj, N. et al. (2023). A systems science approach to identifying data gaps in national data sources on adolescent suicidal ideation and suicide attempt in the United States. *BMC Public Health* 23(1), 1-9.
8. **Rice, K.**, Brown, M., Nataraj, N., & Xu, L. (2023). Circumstances Contributing to Suicide Among US Adolescents Aged 10–19 Years with and without a Known Mental Health Condition: National Violent Death Reporting System, 2013–2018. *Journal of Adolescent Health*, 72(4), 519-525.
9. Peterson, C., **Rice, K.L.**, Williams, D.D., & Thomas, R. (2023). WISQARS Cost of Injury for public health research and practice. *Injury prevention*, 29(2), 150-157. doi: 10.1136/ip-2022-044708
10. Giabbanelli, P., **Rice, K.**, Galgoczy, M., Nataraj, N., Brown, M., Harper, C., Nguyen, A., & Foy, R. (2022). Pathways to suicide or collections of vicious cycles? Understanding the complexity of suicide through causal mapping. *Social network analysis and mining*, 12(1), 60.
11. Miller, G. F., Wilson, L., **Rice, K.**, DePadilla, L., Mercado-Crespo, M., & Jones, S. E. (2022). Injury prevention activities in US schools, School Health Policies and Practices Survey 2014. *Journal of school health*, 92(9), 841-852.
12. Dunphy, C., Miller, G. F., **Rice, K.**, Vo, L., Sunshine, G., McCord, R., ... & Coronado, F. (2022). The impact of COVID-19 state closure orders on consumer spending, employment, and business revenue. *Journal of public health management and practice: JPHMP*, 28(1), 43-49.
13. Huddleston, J., Galgoczy, M. C., Ghumrawi, K. A., Giabbanelli, P. J., **Rice, K. L.**, Nataraj, N., ... & Florence, C. S. (2022). Design and Deployment of a Simulation Platform: Case Study of an Agent-Based Model for Youth Suicide Prevention. In *2022 Winter Simulation Conference (WSC)* (pp. 2582-2593). IEEE.
<https://doi.org/10.1109/WSC57314.2022.10015509>

14. Giabbanelli, P. J., Galgoczy, M. C., Nguyen, D. M., Foy, R., **Rice, K. L.**, Nataraj, N., ... & Harper, C. R. (2022). Mapping the complexity of suicide by combining participatory modeling and network science. *In Refereed Proceedings of the 2021 IEEE/ACM International Conference on Advances in Social Networks Analysis and Mining* (pp. 339-342). <https://doi.org/10.1145/3487351.3488271>
15. Florence, C., Luo, F., & **Rice, K.** (2021). The economic burden of opioid use disorder and fatal opioid overdose in the United States, 2017. *Drug and alcohol dependence*, 218, 108350.
16. Miller, G., Greening, B., **Rice, K.**, Arifkhanova, A., Meltzer, M., & Coronado, F. (2021). Modeling the transmission of COVID-19: Impact of mitigation strategies in prekindergarten-grade 12 public schools, United States, 2021. *Journal of Public Health Management and Practice*, 28(1), 25-35.
17. Miller, GF., Lyons, BH., Peterson, AB., **Rice, KL.**, & Holland, KM. (2021). Reported history of traumatic brain injury among suicide decedents: National Violent Death Reporting System, 2003–2017. *American journal of preventive medicine*, 61(4), 501-508.
18. **Rice, K.L.**, Miller, G.F., Coronado, F., & Meltzer, M.I. (2020). Estimated resource costs for implementation of CDC's recommended COVID-19 mitigation strategies in pre-kindergarten through grade 12 public schools—United States, 2020–21 school year. *Morbidity and Mortality Weekly Report*, 69(50), 1917.
19. Ali, F., **Rice, K.**, Fang, X., & Xu, X. (2019). Tobacco 21 policies in California and Hawaii and sales of cigarette packs: a difference-in-differences analysis. *Tobacco control*, 29(5), 588-592
20. Caraballo R., **Rice K.**, Neff L., & Garrett B. (2019). Social and Physical Environmental Characteristics Associated with Adult Current Cigarette Smoking. *Prev Chronic Dis* 16:180373.
21. DeGroff, A., Gressard, L., Glover-Kudon, R., **Rice, K.**, Tharpe, F., Escoffery, C., Gersten, J., & Butterly, L. (2019). Assessing the implementation of a patient navigation intervention for colonoscopy screening. *BMC Health Serv Res* 19, 1-11.
22. **Rice, K.**, Sharma, K., Li, C., Butterly, L., Gersten, J., & DeGroff, A. (2018). Cost-effectiveness of a patient navigation intervention to increase colonoscopy screening among low-income adults in New Hampshire. *Cancer*, 125(4), 601-09.
23. **Rice, K.**, Gressard, L., DeGroff, A., Gersten, J., Robie, J., Leadbetter, S., Glover-Kudon, R., & Butterly, L. (2017). Increasing colonoscopy screening in disparate populations: Results from an evaluation of patient navigation in the New Hampshire Colorectal Cancer Screening Program. *Cancer* 123(17):3356–66.
24. DeGroff A., Carter A., Kenney K., Myles Z., Melillo S., Royalty J., **Rice K.**, Gressard L., & Miller J. (2016). Using evidence-based interventions to improve cancer screening in the National Breast and Cervical Cancer Early Detection Program. *Journal of Public Health Management and Practice* 22(5): 442-49.
25. Joseph, K., **Rice, K.**, & Li, C. (2016). Integrating Equity in a Public Health Funding Strategy. *Journal of Public Health Management and Practice* 22(S): S68 -S76.
26. Myles, Z., **Rice, K.**, DeGroff, A., & Miller, J. (2015). A Profile of the National Breast and Cervical Cancer Early Detection Program (NBCCEDP) Provider Network: Results from the Year 1 NBCCEDP Survey of Program Implementation. *Quality in Primary Care* 23(6): 315-17.
27. Escoffery, C., Hannon, P., Maxwell, A.E., Vu, T., Leeman, J., Dwyer, A., Mason, C., Sowles, S., **Rice, K.**, & Gressard, L. (2015). Assessment of training and technical assistance needs of Colorectal Cancer Control Program Grantees in the US. *BMC Public Health* 15(1), 1-8.
28. **Rice, K.** (2010). Measuring the Likelihood of Food Insecurity in Ohio's " Food Deserts". *Journal of Food Distribution Research*, 41(856-2016-58036), 101-107.

29. **Rice, K.** (2004). "Rich World Agricultural Subsidies and Tariffs: Impact on Third World Poverty." With Uchenna Elike. In *Refereed Proceedings of the 31st Annual Meeting of The Academy of Economics and Finance*. Vol. 28. 2004.

Book Chapters

30. **Rice, K.** (2014). Is There a Place for Space in the Analysis of Policy Utilization? The Case of the Supplemental Nutrition Assistance Program (SNAP) in *Voices of Hunger: Food Insecurity in the United States*, Courtney I.P. Thomas ed. Champaign, IL: Common Ground.
31. **Rice, K.** (2012). The Utility of Multilevel Modeling vs. Agent-Based Modeling in Examining Spatial Disparities in Diet and Health: The Case of Food Deserts in *Simulations for Policy Inquiry*, Anand Desai ed. New York, NY: Springer.

Technical Reports and Policy Briefs

1. **Rice, K.** (2023). Centers for Disease Control and Prevention (CDC). Division of Injury Prevention and Control. *Core State Injury Prevention Program (Core SIPP) Aggregate Evaluation Report Across all Recipients, Year 1 Base Activities* (Internal CDC report)
2. **Rice, K.** (2014). Centers for Disease Control and Prevention (CDC). Division of Cancer Prevention and Control. *Colorectal Cancer Control Program, Grantee Highlights, Program Year 4.* (Internal CDC report).
3. **Rice, K.** (2013). Centers for Disease Control and Prevention (CDC). Division of Cancer Prevention and Control. *Colorectal Cancer Control Program, Grantee Highlights, Program Year 3.* (Internal CDC report).
4. **Rice, K.** (2008). Health Policy Institute of Ohio. *Final Report to the Ohio Health Information Partnership Advisory Board.*

Working Papers

1. **Rice, K.,** Eckerd, A., & Glover-Kudon, R. Integrating Agent-Based Modeling (ABM) with Public Health Program Evaluation to Explore Intervention Transferability
2. Liang, L., Schuerkamp, R., **Rice, K.,** Brown, M.M., Nataraj, N., Mendoza-Alonzo, J., Harper, C., Florence, C., Maldonado, B., Moran, B., & Giabbanelli, P.J. An Artificial Intelligence Approach to Support Youth Suicide Prevention Initiatives in the United States
3. Mendoza-Alonzo, J., **Rice, K.,** Yuan, K., & Parker, E. Prediction of Violence Victimization Among Children and Adolescents Using Machine Learning
4. Nataraj, N., Chen, Y., Stewart, A., S. Rikard, M., Zhang, K., **Rice, K.,** Jiang, X., Mattson, C., Ko, J., Guy, G., & Losby, J. Scaling public health strategies to counteract potential increases in fatal overdoses among persons with opioid use disorder - A counterfactual modeling study
5. Dobash, D., Haddad, Y., **Rice, K.,** & Bergen, G. Older Adult Falls as a Predictor of Nursing Facility Placement

Unpublished Manuscripts

1. Maciosek, M., **Rice, K.**, LaFrance, A., Xu, Z., Xu, X., Tynan, M., McAfee, T., & Armour, B. Health and Economic Impacts of State Tobacco Control and Prevention Programs: A Microsimulation Analysis of Combined Efforts
2. **Rice, K.** Analyzing Consumption and Dietary Health in the Context of Food Disadvantaged Communities: An Agent-Based Modeling Approach

Conference Presentations

1. **Rice, K.** "Impact of Policies, Practices, and Programs on Preventing Adolescent Suicide: An Agent-Based Simulation Model". Presentation at the 2024 Suicide Research Symposium, April 17-19, 2024 (Virtual Presenter).
2. Giabbanelli, P. & **Rice, K.** "Design and Deployment of a Flexible Data Science Platform for Population Health Interventions on Suicide in Children and Adolescents". Presentation at the AMIA 2022 Clinical Informatics Conference, May 25, 2022, Houston, TX. (Co-Presenter)
3. **Rice, K.**, Maciosek, M., LaFrance, A., Xu, Z., Xu, X., Tynan, M., & Armour, B. "Health and Economic Impacts of State Tobacco Control and Prevention Interventions: A Microsimulation Analysis of Combined Efforts". Presentation at the 2018 Annual Research Meeting of AcademyHealth, June 25th-27th, Seattle, WA. (Presenter)
4. **Rice, K.** "Health Economics" Presentation at Ancillary Meetings of the 2017 National Conference on Tobacco or Health (NCTOH), March 21st, Austin, TX (Presenter)
5. **Rice, K.** "Applying Multiple Methods for Balancing Internal and External Validity in Evaluating a Public Health Intervention" Presentation at the 2016 Meeting of the American Evaluation Association (AEA), October 24th – 29th, Atlanta, GA. (Presenter)
6. **Rice, K.** "Analyzing Consumption and Dietary Health in the Context of Food Disadvantaged Communities: An Agent-Based Modeling Approach". Presentation at the 2015 Fall Meeting of the Association for Public Policy Analysis and Management (APPAM), November 12th – 14th, Miami, FL. (Presenter)
7. **Rice, K.** "Environmental Justice and Equity: Lessons for a More Equitable Society" Panel at the 2015 Fall Meeting of the Association for Public Policy Analysis and Management (APPAM), November 12th – 14th, Miami, FL. (Panel Discussant)
8. **Rice, K.** "An Effective Patient Navigation Intervention: Results from a Study of the New Hampshire Colorectal Cancer Screening Program (NHCRCSP)". Presentation at the 2015 Annual Conference of the American Public Health Association (APHA), November 1st – 4th, Chicago, IL. (Presenter)
9. Escoffery, C., Hannon, P., Maxwell, A.E., Vu, T., Leeman, J., Dwyer, A., Mason, C., Sowles, S., **Rice, K.**, & Gressard, L. "Building Grantees' Capacity to Implement Evidence-based Approaches for Cancer Control within the CDC's Colorectal Cancer Control Program (CRCCP)". Presentation at the 2014 Annual Conference of the American Public Health Association (APHA), November 15th – 19th, New Orleans, LA. (Co-Presenter)
10. **Rice, K.** "Transplant Policy and Quality of Care". Panel at the 2014 Fall Meeting of the Association for Public Policy Analysis and Management (APPAM), November 6th – 8th, Albuquerque, NM. (Panel Discussant)
11. Gressard, L., DeGroff A., Royalty, J., Myles, Z., **Rice, K.**, & Melillo, S. "Using Survey Data to Support Monitoring and Evaluation of the National Breast and Cervical Cancer Early Detection Program". Presentation at the 2014 Annual Conference of the American Evaluation Association (AEA), October 15th -17th, Denver, CO. (Co-Presenter)

12. **Rice, K.** "Methods for Addressing Social System Complexity in Policy Evaluation with an Application to Public Health". Panel at the 2013 Fall Meeting of the Association for Public Policy Analysis and Management (APPAM), November 7th – 9th, Washington, DC. (Panel Chair)
13. **Rice, K.** "Simulation and Complexity in Policy Research". Panel at the 2011 Fall Meeting of the Association for Public Policy Analysis and Management (APPAM), November 10th-12th, Washington, DC. (Panel Discussant)
14. **Rice, K.** "Measuring the Likelihood of Food Insecurity in Ohio's Food Deserts". Presentation at the 2009 Annual Conference of the Food Distribution Research Society (FDRS), October 31st – November 4th, Denver, CO. (Presenter)
15. **Rice, K.** "In the Wrong Place? Geographic Disparities in Food and Health." Presentation at the 2009 Regional, Population, and Health Economics Graduate Summit, April 10th -11th, University of Illinois at Urbana-Champaign, Urbana, IL. (Presenter)
16. **Rice, K.** "Measuring the Likelihood of Food Insecurity in Ohio's Food Deserts". Presentation at the 2008 American Agricultural Economics Association (AAEA) & American Council on Consumer Interests (ACCI) Joint Meeting, July 27-29th, Orlando, FL. (Presenter)

Conference Posters

1. **Rice, K.**, Gupta, N., Barnett, S.B., Grist, M.B., Dunphy, C., Miller, G., Aslam, M., Peterson, C., & Florence, C. "Cost Analysis of the Centers for Disease Control and Prevention's Core State Injury Prevention Program (Year 1)". Presented at the 2023 Annual Research Meeting of AcademyHealth, June 24th – 26th, Seattle, WA.
2. **Rice, K.**, Florence, C., & Luo, F. The Economic Burden of Opioid Use Disorder and Fatal Overdose in the United States, 2017. (Accepted at the 2020 Annual Research Meeting of AcademyHealth – Non-participation due to Covid-19)
3. Ali, F., **Rice, K.**, Fang, X., & Xu, X. "The Impact of Tobacco 21 Policy in California and Hawaii on Packs of Cigarettes Sold: A Difference-in-Difference Analysis". Presented at the 2019 Conference of the American Society of Health Economists, June 23rd – 26th, Washington, DC.
4. **Rice, K.**, Sharma, K., Li, C., Butterly, L., Gersten, J., & DeGroff, A. "Is Patient Navigation a Cost-Effective Intervention to Increase Colonoscopy Screening? A Case Study from New Hampshire". Presented at the 2019 Annual Research Meeting of AcademyHealth, June 2nd – 4th, Washington, DC.
5. **Rice, K.**, Caraballo, R., Garrett, B., & Neff, L. "Influence of Ecological and Sociospatial Characteristics on Adult Cigarette Smoking Prevalence: A County Level Analysis". Presented at the 2018 Annual Meeting of the Society for Research on Nicotine and Tobacco (SRNT), February 21st -24th, Baltimore, MD.
6. **Rice, K.**, Maciosek, M., LaFrance, A., Xu, X., Xu, Z., Tynan, M., & McAfee, T. "Health and Economic Impacts of State Tobacco Control and Prevention Interventions: A Microsimulation Analysis of Coordinated Efforts". Presented at the 2017 National Conference on Tobacco or Health (NCTOH), March 22nd -24th, Austin, TX.
7. Gressard, L., DeGroff, A., Glover-Kudon, R., **Rice, K.**, Gersten, J., Robie, J., & Butterly, L. "A Closer Look at a Highly Effective Patient Navigation Intervention for Colorectal Cancer Screening." Presented at the 2016 Annual Conference of the American Public Health Association (APHA), October 29th –November 2nd, Denver, CO.
8. DeGroff, A., Gressard, L., Glover-Kudon, R., **Rice, K.**, Gersten, J., Robie, J., & Butterly, L. "Assessing the Scalability of a Cancer Screening Patient Navigation Intervention Using RE-AIM." Presented at the 2016 Annual Conference of the American Public Health Association (APHA), October 29th –November 2nd, Denver, CO.

9. DeGroff, A., Gressard, L., **Rice, K.**, Glover-Kudon, R., Gersten, J., Robie, J., Sullivan, G., Solomon Tharpe, F., & Butterly, L. "Core Components and Implementation Factors of an Effective Patient Navigation Intervention for Colorectal Cancer Screening". Presented at the 2016 Dialogue for Action Conference, April 6th – 8th, Baltimore, MD.
10. **Rice, K.**, Glover-Kudon, R., Gressard, L., DeGroff, A., & Chen, H. "An Application of the Integrative Cogency Framework for Intervention Evaluation." Presented at the 2015 Annual Research Meeting of AcademyHealth, June 14th – 16th, Minneapolis, MN.
11. DeGroff, A., Royalty, J., Gressard, L., Myles, Z., Melillo, S., **Rice, K.**, & Joseph, K. "Implementation of the National Breast and Cervical Cancer Early Detection Program, July 2012 – June 2013". Presented at the 2014 Dialogue for Action Conference, March 20th – 21st, Baltimore, MD.
12. **Rice, K.**, Gressard, L., DeGroff, A., Hannon, P., Vu, T., Maxwell, A., & Escoffery, C. "Implementation of System Approaches for Integrating Public Health and Primary Care Delivery to Increase Colorectal Cancer Screening." Presented at the 2014 Annual Research Meeting of AcademyHealth, June 8th -10th, San Diego, CA.
13. Joseph, K., **Rice, K.**, & Li, C. "Integrating Vertical Equity in the Funding Process of a Federal Cancer Control Program." Presented at the 2013 Annual Research Meeting of AcademyHealth, June 23rd -25th, Baltimore, MD.

Invited Talks, Educational Trainings, and Presentations

1. **Rice, K.** Health Economics Research Group (HERG): Towards the Future: Data Modernization, Health Equity Science, and Innovation" Presented with Gabrielle Miller at the CDC Scientific Workgroups Symposium, November 12, 2022
2. **Rice, K.** "Estimated Resource Costs for Implementation of CDC's Recommended COVID-19 Mitigation Strategies in Pre-Kindergarten through Grade 12 Public Schools — United States, 2020–21 School Year" Presented at Centers for Disease Control and Prevention, Health Economics Research Group (HERG) Awards Ceremony, October 19, 2022
3. **Rice, K.** "A Systems Science Approach to Identifying Data Gaps in National Datasets on Adolescent Suicide" Presented at Centers for Disease Control and Prevention, National Center for Injury Prevention and Control, National Suicide Prevention Month Speaker Series, September 28, 2022
4. **Rice, K.** "Examining the dimensions of childhood adversity and the emergence of suicidality within an agent-based modeling framework" Presented at Centers for Disease Control and Prevention, Division of Injury Prevention Office of Science Seminar Series, August 11, 2022
5. **Rice, K.** "Mapping the complexity of suicide by combining participatory modeling and network science" Presented at Centers for Disease Control and Prevention, Division of Injury Prevention Office of Science Seminar Series, April 25, 2022
6. **Rice, K.** "Methods for Conducting Cost Analysis of a Program or Intervention" Presented at Centers for Disease Control and Prevention, National Center for Injury Prevention and Control, Division of Injury Prevention, Present-Engage-Discuss (PID) Seminar Series, February 24, 2022.
7. **Rice, K.** & Ottley, P. "Preventing Teen Dating Violence and Youth Violence through Shared Risk and Protective Factors (1605 Program): Cost Study Findings". Presented at Centers for Disease Control and Prevention, Office of the Associate Director for Policy and Strategy, Program Performance and Evaluation Office Webinar Series, January 25, 2022

8. **Rice, K.** & Ottley, P. "Preventing Teen Dating Violence and Youth Violence through Shared Risk and Protective Factors (1605 Program): Cost Study Findings". Presented at Centers for Disease Control and Prevention, National Center for Injury Prevention and Control, Division of Violence Prevention, ADS Training Series, November 4, 2021
9. Lane, G., **Rice, K.**, Sargent, W., Estefan, L., Willis, E., Jack, S., & Ball, L. "Being Present in a Virtual World". Presented at Centers for Disease Control and Prevention, National Center for Injury Prevention and Control Telework Talk, June 11, 2021
10. **Rice, K.** "ACEs and Suicide Agent-Based Modeling Study". Presented at Centers for Disease Control and Prevention, National Center for Injury Prevention and Control, Suicide Prevention Monthly Meeting, November 30, 2020
11. **Rice, K.** "Cost Analysis of a Program or Intervention". Presented at Centers for Disease Control and Prevention, Prevention Effectiveness Fellowship Class of 2020 Orientation, October 5, 2020.
12. **Rice, K.** "Cost Analysis of a Program or Intervention". Presented at Centers for Disease Control and Prevention, Prevention Effectiveness Fellowship Class of 2019 Orientation, October 30, 2019.
13. **Rice, K.** "Economic Evaluation of Teen Dating and Youth Violence Prevention Strategies" Presented at the Preventing Teen Dating Violence and Youth Violence by Addressing Shared Risk & Protective Factors 2019 Recipient Meeting, August 7, 2019.
14. **Rice, K.** "Cost Analysis of a Program or Intervention". Presented at Centers for Disease Control and Prevention, Prevention Effectiveness Fellowship Class of 2018 Orientation, October 15, 2018.
15. **Rice, K.** "Modeling the Health and Economic Impacts of State Tobacco Control and Prevention Programs: Implications for Reducing Disparities and Improving Health Equity". Presented at Meharry Medical College, Center for Health Policy, National Scholars' Current Issues in Health Policy Lecture Series, October 4, 2018.
16. **Rice, K.** "Modeling the Health and Economic Impacts of State Tobacco Control and Prevention Programs: A Microsimulation Analysis of Combined Efforts". Presented at Centers for Disease Control and Prevention, Health Economics Research Group (HERG) Brown Bag Seminar Series, June 7, 2018.
17. **Rice, K.** "Implementing the Bloomberg Data to Policy (D2P) Training: Lessons Learned from D2P in Lusaka, Zambia". Presented at Centers for Disease Control and Prevention, Office on Smoking and Health, Epidemiology Branch Lunch and Learn, March 21, 2018.
18. **Rice, K.** "Introduction to Public Health Economics and Decision Sciences", CDC University Course, Steering Committee Member for Course Development and Co-Instructor, August 1-3, 2017.
19. **Rice, K.** "Methods for Conducting Economic Evaluation for Tobacco Control and Prevention" Presented at Centers for Disease Control and Prevention, Office on Smoking and Health, Evaluator's Network Economic Analysis Workgroup Webinar Series, January 26, 2017.
20. **Rice, K.** "The Role of Patient Navigation in Supporting Patient Adherence and Completion of Colonoscopy Screening: An Agent-Based Modeling Approach". Presented at Centers for Disease Control and Prevention, National Center for Chronic Disease Prevention and Health Promotion, Division of Cancer Prevention and Control, Associate Director for Science Seminar Series, December 13, 2016.
21. **Rice, K.** "Cost-Effectiveness Analysis of a Patient Navigation Intervention to Increase Colonoscopy Screening among Low-Income Adults in New Hampshire". Presented at Centers for Disease Control and Prevention, National Center for Chronic Disease Prevention and Health Promotion, Division of Cancer Prevention and Control, Associate Director for Science Seminar Series, December 6, 2016.

22. **Rice, K.** "Applying Multiple Methods for Balancing Internal and External Validity in Evaluating a Public Health Intervention". Presented at the University of Georgia, College of Public Health, Department of Epidemiology and Biostatistics, Epidemiology Seminar Series, April 22, 2016.
23. **Rice, K.** "Understanding and Applying Return on Investment Analysis in Public Health". Presented at Centers for Disease Control and Prevention, National Center for Chronic Disease Prevention and Health Promotion, Office on Smoking and Health, Epidemiology Branch, Evaluation Team Lecture, April 21, 2016.
24. **Rice, K.** "An Effective Patient Navigation Intervention: Results from a Study of the New Hampshire Colorectal Cancer Screening Program (NHCRCSP)". Presented at Georgia Southern University, Jiang Ping Hsu College of Public Health, Disease Dynamics Seminar Series, February 24, 2016.
25. **Rice, K.** "Cost Analysis and Cost of Illness Analysis". Presented at Alabama Department of Public Health, Economic Aid Technical Assistance Project, October 30, 2015.
26. **Rice, K.** "Integrating Agent-Based Modeling (ABM) with Program Evaluation to Assess Intervention Transferability". Presented at Centers for Disease Control and Prevention, 2015 Evaluation Day, September 9, 2015.
27. **Rice, K.** "Implementation of Systems Approaches for Integrating Public Health and Primary Care Delivery to Increase Colorectal Cancer Screening". Presented at Centers for Disease Control and Prevention, 2015 Evaluation Day, September 9, 2015.
28. **Rice, K.** "Cost of Illness Analysis". Presented for Epidemic Intelligence Service Orientation. Centers for Disease Control and Prevention, Center for Surveillance, Epidemiology and Laboratory Services (CSELS), Division of Scientific Education and Professional Development, July 9, 2015.
29. **Rice, K. & Li, C.** "Integrating Vertical Equity in Public Health Finance". Presented at Centers for Disease Control and Prevention, National Center for Chronic Disease Prevention and Health Promotion, Division of Cancer Prevention and Control, Associate Director for Science Seminar Series, July, 7, 2015.
30. **Rice, K.** "The Role of Prevention Effectiveness". Presented at Centers for Disease Control and Prevention, National Center for Chronic Disease Prevention and Health Promotion, Division of Cancer Prevention and Control, Program Services Branch Meeting, December 11, 2014.
31. **Rice, K.** "Public Health Economics & Decision Science". Presented for HRSA / CDC Capacity-Building Collaboration. Centers for Disease Control and Prevention, Center for Surveillance, Epidemiology and Laboratory Services (CSELS), Division of Scientific Education and Professional Development, November 14, 2014.
32. Joseph, K. & **Rice, K.** "Integrating Vertical Equity in Public Health Finance". Presented at Centers for Disease Control and Prevention, 2014 Evaluation Day, September 10, 2014.
33. **Rice, K.** "Integrating Agent-Based Modeling in Public Health". Presented at Centers for Disease Control and Prevention, National Center for Chronic Disease Prevention and Health Promotion, Division of Cancer Prevention and Control, Associate Director for Science Seminar Series, February 4, 2014.
34. DeGroff, A., Gabuten, K., Glover-Kudon, R., Gressard, L., **Rice, K.**, & Solomon, F. "Designing a Mixed-Methods Evaluation to Assess the Effectiveness of New Hampshire's CRCCP Patient Navigation Program". Presented at Centers for Disease Control and Prevention, National Center for Chronic Disease Prevention and Health Promotion, Division of Cancer Prevention and Control, Associate Director for Science Seminar Series, June 18, 2013.

35. **Rice, K.**, Poindexter, P., & Vance, A. "Shaping Policy for the National Breast and Cervical Cancer Early Detection Program and the Colorectal Cancer Control Program". Presented at Centers for Disease Control and Prevention, National Center for Chronic Disease Prevention and Health Promotion, Division of Cancer Prevention and Control, Program Services Branch Meeting, February 28, 2013.
36. **Rice, K.** "Food Security". Presented at Columbus College of Art and Design, Liberal Arts 101 Course on Food Sustainability, Spring 2011.

Certificate Programs/Leadership Programs

Centers for Disease Control and Prevention, Atlanta, GA

- **2021-2022 - Data Science Certificate Program** | Capstone Project: Applying machine learning techniques to investigate suicide risk factors among children using the Adolescent Brain Cognitive DevelopmentSM (ABCD) Study
- **2020-2021 Rising Leaders Program** | 1-year competitive leadership development program – completed final project to examine lessons learned from COVID-19 and make recommendations for how organizations can incorporate best practices for leadership and wellness in a virtual environment

Selected Honors & Awards

- 2023 Winner - Peer2Peer "Project Leader" Award, CDC NCIPC Annual Honor Awards
- 2023 Nominee - "Excellence in Quantitative Science", CDC NCIPC Annual Honor Awards
- 2022 October Employee of the Month, CDC NCIPC
- 2017 Winner - Best Evaluation Award (Peer Review Category), CDC Evaluation Day
- 2013 Nominee - PhD Dissertation Award, Association for Public Policy and Management (APPAM)
- 2009 Outstanding Graduate Teaching Assistant Award, The Ohio State University – John Glenn School of Public Affairs

Service

CDC

- Objective Review Panelist, Notice of Funding Opportunity (NOFO) CDC-RFA-DP-23-0020 A Strategic Approach to Advancing Health Equity for Priority Populations with or at Risk for Diabetes, 2023
- National Center for Injury Prevention and Control, Division of Injury Prevention, Social Committee Member, 2023 – Present
- Health Economics Research Group (HERG), Health Equity Subcommittee Co-chair, 2022-Present; Impact and Methods Awards Reviewer, 2019; Brown Bag Seminar Series Committee Chair, 2016-2018, 2020 – 2022; Member, 2014- Present
- Objective Review Panelist, Notice of Funding Opportunity (NOFO) for Expansion of Comprehensive Suicide Prevention Across the U.S, 2022
- National Center for Injury Prevention and Control, Building Evacuation Team Monitor, 2019-2022
- National Center for Injury Prevention and Control, Cross-branch collaborative workgroup on social determinants of health indicators for surveillance, 2021
- National Center for Injury Prevention and Control, Division of Injury Prevention Health Equity Tiger Team, 2021
- Prevention Effectiveness Fellowship Class of 2021 – Application Review Panel, 2021
- Objective Review Panelist, Notice of Funding Opportunity (NOFO) for Building Resilience Against Climate Effects: Implementing and Evaluating Adaptation Strategies that Protect and Promote Human Health, 2021

- Objective Review Panelist, Notice of Funding Opportunity (NOFO) for Public Health and Health Systems Partnerships to Increase Colorectal Cancer Screening in Clinical Settings, 2020
- National Center for Injury Prevention and Control, Peer2Peer Awards Reviewer, 2020
- National Center for Injury Prevention and Control, Division of Injury Prevention Strategic Planning Committee, 2019
- CDC Bring Your Child to Work Day Planning Committee, Outdoor Games Coordinator, 2019
- National Center for Injury Prevention and Control, Racism and Violence Workgroup, Member, 2018-Present
- Objective Review Panelist, Funding Opportunity Announcement (FOA) for the State Physical Activity and Nutrition Program (SPAN), 2018
- Office on Smoking and Health, Connections Team Advisory Committee, 2018
- Office on Smoking and Health, Epidemiology Branch Liaison to Health Communications Branch (HCB), 2016-2017
- Objective Review Panelist, Funding Opportunity Announcement (FOA) for the National Program of Cancer Registries, 2017
- Built Environment Working Group, Member, 2017-present
- CDC Ambassadors Volunteer, 2014-Present
- Geography and Geospatial Science Working Group, Member, 2014 – present
- Behavioral and Social Science Working Group, Member, 2013 – present
- Prevention Effectiveness Fellowship 20th Anniversary Planning Committee, Poster Session Organizer, 2015
- Objective Review Panelist, Funding Opportunity Announcement (FOA) for the Behavioral Risk Factor Surveillance System (BRFSS), 2015
- Objective Review Panelist, Funding Opportunity Announcement (FOA) for the Environmental Health Services Support for Public Health Drinking Water Programs to Reduce Drinking Water Exposures, 2015
- Division of Cancer Prevention and Control (DCPC), Employee Appreciation Day Planning Committee, 2015
- Division of Cancer Prevention and Control (DCPC), Program Services Branch Holiday Planning Committee, 2014

Academic

- BMC Digital Health – Journal Reviewer, 2025
- Value in Health – Journal Reviewer, 2024
- PLOS One – Journal Reviewer, 2022, 2021, 2020
- Emerging Infectious Diseases – Journal Reviewer, 2020
- Preventive Medicine – Journal Reviewer, 2023, 2020
- Association for Public Policy Analysis and Management (APPAM), Conference Program Reviewer - Methods and Tools for Analysis Sub-committee, 2020
- Cancer Causes & Control – Journal Reviewer, 2019
- Association for Public Policy Analysis and Management (APPAM), Volunteer Panelist for Student Job Market Session - Fall Meeting, 2015
- Network of Schools of Public Policy, Affairs, and Administration (NASPAA) Student Simulation Competition, Volunteer Judge - Southeast Region - University of Georgia, 2015
- Public Affairs Student Association, The Ohio State University, 2008-2012
- Office of Minority Affairs, The Ohio State University, Workshop Facilitator for the Young Scholars Summer Program, 2007
- AED Economics Graduate Student Organization, The Ohio State University, 2006-2007
- Graduate Student Association, Alabama A&M University, 2002-2003

Community

- Girl Scouts of Greater Atlanta – Troop 16204, Troop Leader, 2015-present
- Alabama A&M University Alumni Association – Metro Atlanta Chapter Member, 2012 – present
- Delta Sigma Theta Sorority, Inc. – Atlanta Alumnae Chapter Member, 2012 – present
- Fickett Elementary School – PTA Secretary, 2019 - 2020
- CHI Montessori Academy - Fundraising Committee Chair, 2015 – 2019
- Big Brothers/Big Sisters of North Alabama, Huntsville, AL, AmeriCorps VISTA, 2002-2003; Big Sister Mentor, 2003-2005

Professional Affiliations

- American Public Health Association (APHA)
- Association for Public Policy Analysis and Management (APPAM)
- Agricultural and Applied Economics Association (AAEA)