



OHIO EDUCATION RESEARCH CENTER

Annual Report

2022



OHIO EDUCATION RESEARCH CENTER



THE OHIO STATE UNIVERSITY
JOHN GLENN COLLEGE OF PUBLIC AFFAIRS

Year in Review

The Ohio Education Research Center had a wonderful 2022! After a long period of what felt like hibernation, our team was super excited to end the year on a high note, celebrating our 10th anniversary as an official center at the John Glenn College of Public Affairs! We also really appreciate our ongoing partnership with CHRR at the College of Arts and Sciences (formally known as the Center for Human Resource Research).

After ten years of work during 2022 we saw some activities come to completion. For example, as part of work for the Ohio Department of Education (ODE), we completed data matching for the OneGoal strategic plan, enabling ODE to understand the employment outcomes of high school completers. Second, we produced the [Career Resource Navigator](#), a new tool for the Office of Workforce Transformation (OWT) in the Governor's Office. The Navigator is a significant new dashboard that shows employment outcomes and career information across a wide range of education and job training programs offered to Ohioans. And finally, for many agencies and partners we continued to offer evaluation services, producing a significant set of reports and data services for AmeriCorps, The Ohio Department of Higher Education (ODHE), and the Departments of Developmental Disabilities (DODD) and Opportunities for Ohioans with Disabilities (OOD).

Our contract and grant work with the State of Ohio grew in 2022. We signed a new two-year agreement with the State for data services as part of the [Ohio Longitudinal Data Archive](#), which provides data engineering support, dashboarding, and targeted data science activities. This award provides core funding for our state focused data services. Second, we continued to work with individual agencies such as the ODE and the Ohio Housing Finance Agency (OHFA), funding that enabled our team to expand the Ohio Evidence Based Clearinghouse and support analysis of the OHFA fund. These long-term efforts we added additional work with Ohio Excels on the third-grade reading program.

Our team worked with a sub-set of our agency partners to host interns through the [Public Sector Data Science Internship program](#). This is our 5th year of the program, after taking a break for the COVID era, we really appreciated the return to in-person internships.



Our Team



**Joshua Hawley, Ed.D., Harvard,
M.A., B.A. UW Madison**
Director



**Lisa Neilson, Ph. D., M.A. OSU,
MSc, BASc, University of Guelph**
CHRR Research Scientist



**Erin Joyce, M.A. U Notre Dame,
B.A. Loyola University Maryland**
OERC and OLDA Operations
Director



**Ryan Knighton, B.S. OSU,
A.A.S. COTC**
CHRR Systems Developer/
Engineer



**Julie Maurer, Ph. D., M.A. OSU,
B.S. UC Irvine**
Lead Research Manager



**Tian Lou, Ph. D., M.A. UCONN,
B.A. Nankai University**
CHRR Research Scientist



**Seong Ji Jeong, Ph. D., M.A.
Seoul National University, B.A.
Sungkonghoe University**
Post-Doctoral Scholar



**Brian Stamper (M.A., B.S., B.A.
OSU) CHRR Senior Data
Scientist**



**Jessica Collura, Ph. D., M.S. UW
Madison, B.A. Miami University**
Senior Research Associate



Caroline Barto (B.S. OSU)
CHRR Data Scientist



Ceanna Burnheimer (B.A. OSU)
Research Associate



Mark Oleson, B.S. OSU
CHRR Data Scientist

For more information about our team visit: www.oerc.osu.edu/staff

About Us

OERC BY THE NUMBERS

Number of Years In Operation (10)
Number of Current Staff (12 FTE)
Total Data Under Management (25 terrabytes)
Number of Reports/Publications/Presentations in 2022 (15)
Meetings Attended by Zoom/Teams (∞)

NEW STAFF AND WORK ANNIVERSARIES

The OERC celebrated the anniversary for several staff. Dr. Lisa Neilson celebrated her 10th anniversary. She currently leads the OLDA data work as a Research Scientist. Erin Joyce completed her sixth year officially at the Glenn College as Associate Director of the OERC. Dr. Julie Maurer, Research Manager in the Glenn College, will achieve 10 years in about 2 months!

We also welcomed four new staff this year, including Dr. Jessica Collura (Senior Research Associate), Ceanna Burnheimer (Researcher), Caroline Barto (Data Scientist), and Mark Oleson (Data Scientist).

For more information about our team visit: www.oerc.osu.edu/staff

Our Impact

GRANTS AWARDED

Our financial support from state, federal and non-profit partners include the following in 2022-2023.

- For the Ohio Longitudinal Data Archive (Lead agency, Ohio Job and Family Services; Ohio Department of Education, Ohio Housing Finance Agency, Opportunities for Ohioans with Disabilities and Ohio Housing Finance Agency), \$1.4 million (FY 2022-2023)
- For the ODE support of the Ohio Education Research Center in FY 2023, \$535,000
- For the ODE support of the Alternative Assessment Study in FY 2023, \$277,000 For the Coleridge Initiative work on the Multi-State Post-Secondary Support Dashboard in FY2023, \$50,000
- For the National Association of State Workforce Agencies Regional Data Collaboratives in FY 2023, \$201,000
- For Ohio Excels work on the Third Grade Reading Evaluation in FY 2023, \$39,500

PROJECTS HIGHLIGHTS

AmeriCorps Evaluation

On behalf of College Now Greater Cleveland, the OERC conducted an evaluation of the impact of AmeriCorps Ohio College Guides services for students in the Cleveland Metropolitan School District on their postsecondary enrollment and completion. The study sample consisted of students who were served by AmeriCorps College Guides from Fall 2014 through Spring 2019 (student records were provided by College Now), matched to a sample of students from a similar Ohio school district (from EMIS records) via propensity score matching. The study sample was linked to National Student Clearinghouse data to measure college enrollment and completion. The OERC used logistic regression analysis to measure the impact of AmeriCorps Ohio College Guides services on postsecondary outcomes, controlling for a variety of student- and school-level factors. A supplemental analysis was conducted to explore how outcomes vary according to service participation levels.

OneGoal Analysis

For the Ohio Department of Education, the team carried out evaluation of the post high school outcomes for all students from 2012-20, including those who graduated on time and those that dropped out from school. The project was innovative in that the team needed to work out a valid and secure method for understanding student movement from K12 to higher education and employment records. The data used included the Education Management Information System, the Higher Education Information Systems (HEI) and data from Job and Family Services. Based on this work the team will continue to provide ODE with information needed to document the education and employment outcomes for Ohio students.

Presentations

Joshua Hawley (2022, February) “Labor Force Impacts of Enhanced Employment Counseling in the United States: The Limits of an Encouragement RCT Design” (Puey Ungphakorn Institute for Economic Research, Bank of Thailand, Human Capital Seminar Series), <https://www.pier.or.th/en/seminars/2022/02/>

Joshua Hawley (2022, May) “Education, Employment and Decent Work in a VUCA World” (APEC Education Conference, Bangkok, Thailand), <https://m.facebook.com/OECSocial/videos/521880046068111/>

Julie Maurer 2022 International System Dynamics Society Conference (July 18-22) titled “Effective self-directed learning activities for master’s in Public Administration policy simulation and modeling curriculum.” International Conference of the System Dynamics Society 2022, proceedings in publication (ISBN TBD).

2022 National Convening on Multi-State Data Collaboratives Panel: “Moving from Projects to Products to Practice” **Moderator: Erin Joyce**

2022 National Association of State Workforce Agencies Summit Panel: “Multistate Data Collaboratives: Engines for Business Insights” **Panelist: Erin Joyce**

Jeong, S. J., Choi, S. J., Hawley, J. (2022). Exploring Firm-related Career Trajectories of Korean Middle-aged Adults: Sequence Analysis Approach. 2022 International Annual Conference of Society for Longitudinal and Life Course Studies, The Case Western Reserve University, Ohio, US, October 23, 2022

Jeong, S. J., Choi, S. J., Hawley, J. (2022). Middle-Aged Adults’ Career Trajectories and Later Life Financial Security: Evidence from Korea. 2022 Consumer Science Research Seminar, The Ohio State University, Ohio, US, September 9, 2022

Ha, J. Y., Jeong, S. J., & Hong, S. H. (2022). The Education & Training Effect on the Relationship between Age structure and Automation in Workplace. 2022 Autumn Korean Human Resource Development Conference. Gyeonggi, Korea, November 11, 2022

Tian Lou (2022, June). “From Unemployment to Reemployment: Tracking UI Claimants”. Council for Community and Economic Research (C2ER) 62nd Annual Conference & Labor Market Information (LMI) Institute Annual Forum.
<https://www.c2er.org/events/c2er-62nd-annual-conference-06-2022/>

Tian Lou (2022, July). “Use and Manage Public Data in Research Projects”. Public Sector Data Science Internship Presentation Series.

Tian Lou (2022, September). “The State of the Workforce Report”. Columbus Metropolitan Club Forum.
<https://columbusmetroclub.org/event/the-state-of-the-workforce-report/>
https://www.youtube.com/watch?v=YjG_8772-aw

Our Work

WEBSITES

The Career Resource Navigator <https://careernavigator.chrr.ohio-state.edu/>. Available under Initiatives on OWT's website <https://workforce.ohio.gov/initiatives>.

EXTERNAL DATA SERVICES

Kolbeck, S. G., Bellair, P. E., & Lopez, S. (2022). Race, work history, and the employment recidivism relationship. *Criminology*, 60, 637– 666. <https://doi.org/10.1111/1745-9125.12317>

Light, Audrey & Wertz, Sydney. (2022). Should English majors take computer science courses? Labor market benefits of the occupational specificity of major and nonmajor college credits. *Economics of Education Review*. 88. 102263. [10.1016/j.econedurev.2022.102263](https://doi.org/10.1016/j.econedurev.2022.102263).

CODE

Tian Lou (2022, July). “Use API to Download and Manage Public Data”

Lou, Tian. (2022, March 18). Machine Learning Model Development and Feature Creation Using Illinois Unemployment Insurance Data (Part I). Zenodo. <https://doi.org/10.5281/zenodo.6368905>

Lou, Tian. (2022, March 18). Machine Learning Model Deployment and Evaluation Using Illinois Unemployment Insurance Data (Part II). Zenodo. <https://doi.org/10.5281/zenodo.6369160>

PUBLICATIONS

Collura, J. Raffle, H., Stevens, M., Joseph, M. (in press). Youth-infused community coalitions. In B.D. Christens (Ed.) *Cambridge Handbook of Community Empowerment*. Cambridge University Press.

Jeong, S. J., Choi, S. J., & Hawley, J. (2022). How Can Urban Middle-aged Participants Increase Their Agricultural Entrepreneurship Volition During COVID-19? Evidence from South Korea. *Journal of Agricultural Education and Extension*. <https://doi.org/10.1080/1389224X.2022.2153886>. (In Press)

Jeong, S. J., Growth-Joynt, T., Arndt, B., DePouli, K., Dissen, Aren., and Shank, E. (2022). Exploring Employment Outcomes by Generational Temporary Assistance for Needy Families (TANF) Experience. Coleridge Training. This document was created as a data training in Coleridge and under confirmation process (not yet available to public).

Oslock, W.M., Satiani, B., Way, D.P., Tamer, R.M., Maurer, J., Hawley, J.D., Sharp, K.L., Williams, T.E., Pawlik, T.M., Ellison, E.C. and Santry, H.P., 2022. A contemporary reassessment of the US surgical workforce through 2050 predicts continued shortages and increased productivity demands. *The American Journal of Surgery*, 223(1), pp.28-35.