

**DataJam 2023
Finale**

**National Workshop
on Data Science
Education**

**New DataSet
Guides**

**Meet the Data
Science
Professionals**

The DataJam Download

Official Newsletter of the Pittsburgh DataWorks



DataJam 2023 Finale Winners!
See the Finale Video and Posters on the pghdataworks.org homepage!

1st Place

Standardized Testing: A Reflection on Intelligence or Economic Environment?

GRAPHIS

BACKGROUND

METHODOLOGY

RESEARCH QUESTION

HYPOTHESIS

CHALLENGES

SAMPLE DATASET

CONCLUSION

Dataset Sources

Data Spreadsheet

2nd Place

Close Calls with High Cholesterol

How are behavioral factors, the built environment, and socio-economic factors the composite socioeconomic and food locations related to hypertension within Allegheny County?

Hypotheses

Our Process

Multi-Linear Regression Analysis

CONCLUSIONS

3rd Place

Is there a correlation between race, income level, or proximity to fast food restaurants and diabetes rates in Pennsylvania counties?

Why are we studying diabetes?

Hypotheses

What did we find?

Conclusion

Dataset Sources

Data Spreadsheet

Best New Team

Pittsburgh Regional Transit - Vehicle Age and Why it Matters

Team Member Names: Scott Yonson, David Cantara, Si 51 Gopeshini, Technika, Krishna Aradhi, Jay Hritov, Ramon Dub...

Vehicle - Phil Light

Team Winward

Hypotheses

Results

Conclusion

Methodology

National Workshop on Data Science Education

Pittsburgh DataWorks has participated in the planning and organization of the 2023 National Workshop on Data Science Education that will be held in Berkeley California (and virtually by Zoom) on June 20-23, 2023. The morning of Thursday, June 22nd will feature a discussion of project-based learning for data science, and the development of a national pipeline for project-based learning. The **DataJam** will be a key exemplar in this discussion. Anyone interested in attending this session June 22nd is welcome to register at this [link](#). Registration is free. Dr. Cameron and Dr. Cramer from the DataWorks advisory committee will be presenting, as well as schools that are collaborating in offering the DataJam and DataJam mentor training.



The screenshot shows the Berkeley website for the 2023 National Workshop on Data Science Education. The header includes the Berkeley logo and navigation links for Computing, Data Science, and Society, About, Academics, Research, Equity & Inclusion, and News & Events. The main banner features a blue background with a hexagonal pattern and a sunset image of the Berkeley Campanile tower. Text on the banner includes the workshop title, organizing institutions (UC Berkeley's Division of Computing, Data Science, and Society, with support from Microsoft and the West Big Data Innovation Hub), and a 'REGISTER HERE' button. Below the banner, the format is listed as 'In Person - Hybrid format for 2023', with location (Berkeley, California) and dates (Jun 20-23, 2023). A 'Registration' section states that the workshop is free for attendees and provides a link to register. It also notes that hybrid/online options will be available through Zoom.

New DataSet Guides

We have more new DataSet Guides to guide DataJam teams as they choose research questions to study next year and search for datasets. These are now available on the [DATASETS page](#) of [pghdataworks.org](#)!



The DataSet Guide on **Asking questions about Neurodevelopmental Disorders** provides background information about Autism Spectrum Disorders, Attention Deficit Hyperactivity Disorder (ADHD), Intellectual Disability, Down Syndrome, and Cerebral Palsy. Learn about these disorders, see some potential research questions, and see links to datasets that can be used to answer questions.

The DataSet Guide on **Asking Questions about Contraceptive Use** provides an introduction about the many types of contraceptives available today, as well as information on how each works and how effective each is. Potential research questions DataJam teams could ask are outlined and there are links to datasets that can be used to answer questions.



Meet the Data Science Professionals

In this issue we are highlighting the five data scientists who created the newly available DataSet Guides! Rachel Hvasta is a Master's student who is part of a Center grant funded by the National Institute of Child Health and Human Development at the National Institutes of Health (NIH) on "The Genetics of Male Infertility: A Marker of Overall Health" run by Dr. Kyle Orwig at Magee Women's Hospital in Pittsburgh. The Education and Outreach Core for this Center grant aims to provide education to the public about various aspects of fertility and infertility. Several scientists in the Center are working with Pittsburgh DataWorks to develop DataSet Guides for DataJam teams (also see feature about Georgia Atkins in Issue 9//April 2023 located in the [DataWorks Archives](#)).

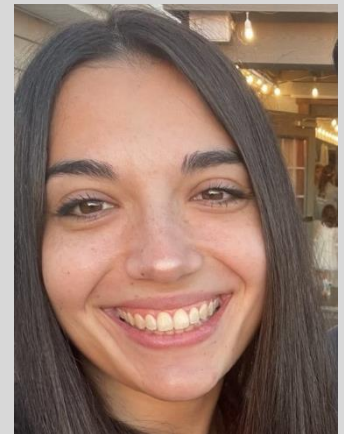


Leighanne Ohlinger, Seth Van Zant, Laura Weiss and Orma Ravindranath are all affiliated with the LEND Center (Leadership Education in Neurodevelopmental Disabilities) at the University of Pittsburgh (LEND.pitt.edu). The goal of this center is to educate the next generation of leaders in the field of disabilities and to forge partnerships to improve the lives of children with special needs and their families. LEND is pleased to be collaborating with Pittsburgh DataWorks to produce new DataSet Guides for DataJam teams interested in learning more about developmental disabilities.



Rachel Hvasta

Hi there! I'm Rachel and I am currently finishing up my Master of Public Health Degree at the George Washington University's Milken Institute School of Public Health. I've moved all around the country from coast to coast, but most recently, I moved from Washington, DC up to Pittsburgh, where I work in Dr. Alexander Yatsenko's genetics lab, studying genetic factors associated with male infertility. When I'm not working, I love to go rock climbing, try out new restaurants, watch movies, and go for long runs to explore the city!



I've always been interested in pursuing a career in science and my mom likes to tell stories about how ever since I was little, I would proudly tell people that one day I was going to be a scientist in a "laborbadory." I took a couple of detours along the way into legal policy work and advocacy for survivors of domestic and sexual violence, which has only helped me realize that science is applicable in so many traditional and non-traditional fields. During my time in undergrad, I double majored in Neuroscience and Politics, and it was during this time that I first learned the intersection of science and public health, and I saw how traditional scientific research methods could help expand efforts to support public wellbeing. Seeing that it was possible to use investigative science and data collection in social justice arenas was so inspiring, and it was so comforting to know that I did not have to choose between my love of science or my passion for advocacy. With my Master of Public Health degree, and the PhD I plan on pursuing, I am eager to continue work in this field and use data and research to develop policy to help protect marginalized members of all communities from inequities and injustices.

I am so excited that you have found the DataJam and are going to learn about ways that you can use data science to research what you are passionate about. I encourage you to ask questions about topics that excite and inspire you and am hopeful that you too will see the power of data science in all subjects!

Leighanne Ohlinger

I am a current fifth year doctoral student in Clinical Psychology at Indiana University of Pennsylvania (IUP) specializing in neuropsychology. I graduated from the University of Pittsburgh in 2018 with a bachelor's degree in psychology and a minor in Neuroscience. I gained research experience while in undergrad in the Brain Aging and Cognitive Health lab studying the impact of various factors on brain health. In graduate school I have completed a variety of clinical experiences including at outpatient and hospital-based neuropsychology settings, a family medicine practice, and a rehabilitation hospital. I have been involved in research projects looking at cognitive function in college students who use substances. I am currently completing my dissertation investigating cognitive functioning in individuals with vascular dementia with and without sleep disorders, as well as psychotropic medication use in this population. This summer I will be starting my neuropsychology internship year at the Veterans Affairs Medical Center in Detroit, Michigan.



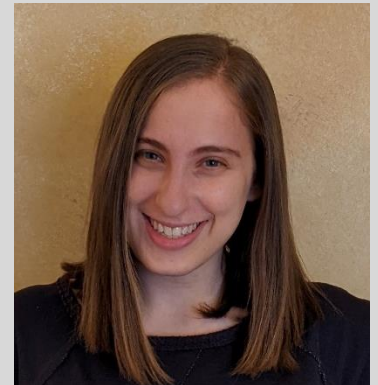
Seth Van Zant

I am a Developmental Neurologist who enjoys caring for children with neurodevelopmental disorders - such as autism spectrum disorder, attention deficit and hyperactivity disorder, intellectual and learning disabilities, and chronic neurologic conditions. My current research interests include looking at trends in the diagnosis and management of ADHD in children in the United States using data from a nationally representative sample, as well as looking at the emotional wellbeing of caregivers or children with complex medical conditions.



Laura Weiss

In the fall of 2023, I will begin a Doctorate of Occupational Therapy program at the University of Pittsburgh. I received my undergraduate degrees in Mathematics, Biology, and Physics, with a minor in Evolutionary Studies. I then continued on to obtain my Masters of Science in Biomedical Sciences at the University of Pittsburgh. I have spent many years working with children in a variety of settings, from tutoring to clinical research, but over the past few years, my passion for working with children with disabilities has grown. In my free time, I love baking, going to the movies, doing crafts, and playing board games like Dungeons and Dragons with my friends. I am passionate about using a collaborative approach to helping children with disabilities reach their goals and to build inclusive environments.



Orma Ravindranath

I am a sixth-year Clinical Psychology doctoral candidate and LEND trainee at the University of Pittsburgh. I am originally from Washington state, and moved to St Louis, where I attended Washington University in St Louis and graduated in 2015 with a B.A. in Philosophy-Neuroscience-Psychology and Music. I then completed a postbaccalaureate fellowship at the National Institute of Mental Health, studying brain development in typically developing children and those with Williams Syndrome. I currently work under the mentorship of Beatriz Luna, Ph.D., and will be defending my doctoral dissertation in June 2023, entitled "The Contributions of Pubertal Maturation to the Neurobiological Mechanisms of Cognitive and Affective Development". I am passionate about research and incorporating data science methods into my psychology and neuroimaging research, and I am excited to be able to contribute to DataJam!



We are looking forward to seeing you at DataJam 2024 next year!