



Knology®

2022

Annual Report

© 2023 Knology Ltd

Recommended Citation Knology. (2023). *2022 Annual Report*. Knology.

Date of Publication November 29, 2023

Cover Photo Zhen Hu on Unsplash

Knology[®] practical social science for a better world

tel: (347) 766-3399
40 Exchange Pl. Suite 1403
New York, NY 10005

tel: (442) 222-8814
3630 Ocean Ranch Blvd.
Oceanside, CA 92056



A Dream Fulfilled

At the close of 2022, I reflect on eleven years as the founding President & CEO and senior research officer for Knology. I could not be more proud of what we've accomplished.

At founding, our board identified a gap in the non-profit sector: the need for agnostic social science expertise that could partner with social change organizations. Our remit from that group of visionaries was to provide social science research to the non-profit, government, and for-profit sectors that could help accelerate social justice, environmental security, and better decision-making. Born around a small dinner table in December 2011, we were incorporated in New York State within two months. And since then, we've done some amazing work.



Dr. John Fraser welcomes new CEO Dr. Christine Reich

After changing our name thanks to input from trusted partners, we secured a global trademark, refined our strategic plan, and built durable partnerships with an extraordinary array of non-profit and governmental groups. We became, as one of our partners called us, "*a good addiction*" that helps other organizations do more and do better.

Our work advances the mission of producing practical social science for a better world, but people make it possible. Since founding, we've all grown as researchers and steadily improved our practices. That growth would not have been possible without the efforts of every single team member—whether it be interns who joined us for a season, those who shaped our trajectory and went on to new ventures, or those team members who have dedicated their careers to Knology and continue to be the backbone of our operations. Our annual reports have always recognized each person who was part of our team that year. That team has made Knology the force it is today.

Knology has always been fortunate to have a board whose efforts far exceed what I have seen at other non-profits. Through 2021, as the pandemic drew to a close, our board worked tirelessly to map our expansion opportunities and growth potential. I met each week with at least one of our committees to think about growth and next steps. By 2022, it was clear to me that our strengths would be best leveraged under new leadership. I thank our board for collaborating with me to identify a new leader who could help Knology reach the potential we could all see. Under the new leadership of Dr. Christine Reich, Knology's future is bright.

This annual report demonstrates that Knology is a clear leader in practical social science for a better world and has only just started to show what it can do.

John Fraser, Ph.D. AIA
Founding President & CEO



A Note from the Chair

They say that the only constant in life is change. This maxim certainly rings true for this past year at Knology. We said a fond farewell to Dr. John Fraser, who founded Knology around his dining room table a decade ago and, with a fabulous team, grew it into the organization it is today. We are extremely excited for Dr. Fraser as he begins a new adventure in Alaska, where he will serve as Director of Mission Impact at the SeaLife Center in Seward, Alaska.

While saying goodbye to Dr. Fraser is bittersweet, we are very fortunate to warmly welcome Dr. Christine Reich (who had previously served as the Chief Learning Officer at the Museum of Science in Boston) to lead Knology into its next chapter. Dr. Reich is an extremely accomplished researcher and non-profit leader with more than 25 years of experience. At the Museum of Science, she founded and directed the institution's Research and Evaluation Department, spearheaded the museum's accessibility efforts, and led the development of numerous wide-reaching informal learning experiences—such as the Science Behind Pixar exhibition and the Mission:Mars Roblox game, each of which have reached millions of people across the country and around the world. Dr. Reich has also played a leading role in developing national museum networks. Among her many accomplishments, she founded the Collaboration for Ongoing Visitor Experience Studies (COVES) program, which unites museums across the country for the purpose of collecting, analyzing, and reporting on visitor experience data.

The whole Knology team and I could not be more excited to have Dr. Reich on board as our new CEO. She is energetic, strategic, thoughtful, and (to use a term from Boston, where she lives) *"wicked smart."* But, just as important, she is a firm proponent of Knology's mission: *"practical social science for a better world."*

As we look toward the future, I am confident that Knology is poised for new and even greater success. Not only is this because of the foundation that Dr. Fraser built and the new ideas and leadership that Dr. Reich will bring, but also because of the amazing talents of the entire Knology team—our staff, board, and many partners who form the backbone of our research. Working together, I am excited to see all that the next chapter brings.



Adam J. Wasserman, J.D.
Chair

Adam J. Wasserman, J.D.
Chair



Table of Contents

A Dream Fulfilled	1
A Note from the Chair	2
Table of Contents	3
Critical Thinking	4
Inform & Shape Action	5
Embody DEAI	6
Strengthen Alliances	7
Refine Our Model	8
Financial Stability	9
Sources of Revenue	11
Distribution of Federal Funding	11
Distribution of Functional Expenses	11
2022 Knology Team	12
Staff	12
Board of Trustees	12
Research Fellows	12
2022 Publications	13



Critical Thinking

Use diverse perspectives to challenge the status quo and navigate the great social issues of our time.

Thinking critically means questioning ingrained assumptions and examining our preconceived notions. In 2022, we used our critical thinking skills to interrogate a number of beliefs, behaviors, and social arrangements. Three illustrations of this work include:

Are Libraries Neutral? A Media Analysis

As part of our work with the American Library Association’s “Libraries Transforming Communities” initiative, we looked at news media coverage of US libraries. These institutions are often portrayed as “safe” and “neutral,” and many libraries idealize these concepts. But as our research shows, there are instances in which creating “safety” and “neutrality” might actually cause harm.

<https://knology.org/article/are-libraries-neutral-a-media-analysis/>

Moral Motives & STEM-informed Action

In 2022, we hosted a conference that brought together theorists and science communicators to discuss what moves people from learning to action. Much of STEM education today revolves around the goal of helping people make decisions informed by scientific knowledge. But does knowledge alone inspire these actions? What role might a desire to protect and care for others (that is, our *moral motives*) play? The conference revealed that the moral motives model has implications for actions related to a wide variety of STEM topics—from climate change to infectious disease management to child development.

<https://knology.org/article/moral-motives-stem-informed-action/>

Numbers in the News

Numbers are everywhere in the news. To support the development of media content that helps news users gain confidence and competence with numbers and data, members of our Meaningful Math team (a collaboration with PBS NewsHour) studied the effect that small changes to real news stories had on audience comprehension of statistical concepts and figures. Among other things, we found that sidebars can help explain complex topics, that numerical values are best understood when accompanied by words, and that representing uncertainty in quantitative terms can be helpful.

<https://knology.org/article/numbers-in-the-news-social-desirability-bias/>

<https://knology.org/article/how-many-is-a-large-group-interpreting-ambiguous-quantitative-statements/>

<https://knology.org/article/numbers-in-the-news-inflation-explanations/>



Inform & Shape Action

Equip leaders with social science research for evidence-based decisions and meaningful action.

Producing actionable research is about more than simply translating social science knowledge into practitioner-friendly language. Recognizing that the research-to-practice continuum is a two-way street, we collaborate with partners to ground our work in specific practical contexts, producing co-created knowledge that responds to real-world concerns. Examples of this from 2022 include:

Number Soup: Case Studies of Quantitatively-Dense News

To understand how journalists and media organizations make use of numbers and statistics, we published a study with our PBS NewsHour colleagues examining the characteristics of quantitatively-dense news stories. Our research showed that journalists often take numbers for granted and assume high levels of statistical literacy among audiences. Putting these findings to work, we issued a series of recommendations (which were cited by *Nieman Lab*) to help journalists and media organizations promote public understanding of numbers and statistics.

<https://knology.org/article/number-soup-case-studies-of-quantitatively-dense-news/>

A Proposed Climate Empowerment Theory of Change

Efforts to combat climate change are widespread across the US, but at present, the country is not on track to meet its goal of reducing emissions by 50% by 2030. One reason for this is that the organizations, networks, and communities engaged in climate change work lack sufficient tools for coordinating, aligning, and monitoring their efforts. To enable greater cooperation and collaboration, we proposed a Climate Empowerment Theory of Change (co-developed by a panel of experts from government, academia, advocacy, and industry) that can be used to create the social infrastructure needed to advance more connected, collective climate action across communities, states, and regions.

<https://knology.org/article/proposed-climate-empowerment-theory-of-change/>

The Role of Urban Libraries in Entrepreneurship

Urban libraries are increasingly creating programs to support patrons' entrepreneurial efforts. Through a grant from the Ewing Marion Kauffman Foundation, we published a paper exploring how communities engage with these programs. Our research showed that library-based business programs can help reduce systemic barriers that prevent members of historically and persistently excluded groups from participating in entrepreneurship and also highlighted areas for future growth in this important area of library services.

<https://knology.org/article/the-role-of-urban-libraries-in-entrepreneurship-a-white-paper/>



Embody DEAI

Strive to integrate principles and practices of diversity, equity, access, and inclusion.

We seek to incorporate Diversity, Equity, Access, and Inclusion (DEAI) into all aspects of our work, and to build a workplace that reflects these principles. For more on our DEAI commitments, please see <https://knology.org/about/diversity-equity-access-inclusion/>

In 2022, we made progress toward this goal by: (1) encouraging research that foregrounds the concerns of historically and persistently excluded groups; (2) initiating and supporting projects that advance DEAI goals; (3) equipping partners with the knowledge and tools needed to achieve their own DEAI goals. Three examples of this work include:

Breaking Racial Barriers in STEM and Health Learning

Initiated by Children's National Hospital, "Discover SCIENCE with Dr. Bear" seeks to broaden access to STEM, health literacy, and medical careers among Black, African American, and Latinx youth. Our evaluation showed that Discover SCIENCE helped children in these communities gain a sense of belonging in STEM, which suggests that the project can help reverse the under-representation of racially minoritized populations in the STEM and health professions.

<https://knology.org/article/breaking-racial-barriers-in-health-and-stem-education>

Enhancing Library Accessibility

Libraries have historically been champions of accessibility, and in recent decades, they have redesigned both their physical spaces and their institutional services to better meet the needs of all people. To help libraries further reduce barriers to access, we published a resource called "Accessibility in Libraries: A Landscape Review." Exploring recent scholarship on this topic, this document also discusses a variety of online tools library workers can use to meet the needs of patrons with disabilities.

<https://knology.org/article/enhancing-library-accessibility/>

Museum Virtual Programming after COVID-19

In 2022, we began a new partnership with the Association of Children's Museums and the Rockman et al Cooperative on a project exploring virtual programming in a post-COVID world. Centered in principles of equity and inclusion, the project positions the creation of online games, podcasts, videos, and live-streamed events as a way to reach new audiences—including those who have historically lacked access to children's museums.

<https://knology.org/article/museum-virtual-programming-after-covid-19/>



Strengthen Alliances

Invest in people and organizations working toward a common good.

In order to produce social science research that both informs and is informed by practice, it is essential to have strong relationships with partners across a variety of fields and sectors. In 2022, we invested in research-practice partnerships with a number of individuals, communities, and institutions. Examples of this work include:

Searching for Justice: Spotlights

The PBS NewsHour project “Searching for Justice” advances the conversation on criminal justice reform by shining a light on something the media typically overlooks: the difficulties formerly incarcerated individuals face upon reentering society. In support of this work, we published a series of “Spotlight” features profiling the work of three individuals active within the reentry sector: Troy Ketchmore, Taylor Paul, and Dr. John Ducksworth. These profiles (which can be found on the landing page below) offer insights into post-carceral life and highlight new directions for combatting the various forms of “invisible punishment” that formerly incarcerated people face.

<https://knology.org/article/searching-for-justice>

Advancing Research on Financial Education Interventions

Personal finance courses are becoming a norm for students across the US. To understand the impact these courses are having on financial well-being, in 2018, we initiated a project with the National Endowment for Financial Education (NEFE) called “A New History of Investment Across the United States.” In 2022, we built on this work by launching a fellowship program to help a small group of emerging scholars use the project’s resources to contribute to a new wave of financial education research. Six scholars participated in the program, and their work offers guidance on how to optimize financial education mandates.

<https://knology.org/article/advancing-research-on-financial-education-interventions/>

Forum on Climate Science, Children, and the Media

In 2022, members of the National Science Foundation’s Design and Discovery Forum hosted an online event designed to advance the conversation on climate science education for youth. The event’s goal was to discover ways for media professionals and scientific experts to jointly develop climate-themed educational resources for children ages 5-11. Among those participating in these discussions was Dr. John Fraser, who helped moderate a panel dedicated to exploring the behavioral aspects of climate change, along with the different ways educators and the media can create materials that focus on living in adaptive systems.

<https://knology.org/article/design-discovery-forum-on-climate-science-children-and-the-media/>



Refine Our Model

Cultivate our collaborative philosophy to make our model resilient and replicable.

To better understand our impacts, in 2022, we undertook research aimed at measuring Knology's social value. We also produced a series of documents outlining our work process and the collaborative research ideals we strive toward. Examples of this work include:

Understanding our Work Process

In 2022, we published an article highlighting some of the methods, approaches, and processes that drive our engagement with the real-world issues at the core of our work. This document also explains how we work with our partners, the varied outputs that result from our research-to-practice collaborations, and the impacts we are having.

<https://knology.org/article/understanding-our-work-process/>

Transdisciplinarity

Transdisciplinarity is at the core of our research model. In 2022, we produced a collaborative document that highlights the advantages of a transdisciplinary approach to research—which allows us to focus on topics and problems (rather than isolated disciplinary matters), to address big questions about human values, behaviors, norms, experiences, and systems, and to work at the intersections of theory and practice.

<https://knology.org/article/transdisciplinarity>

Our Academic Impacts

In 2022, we undertook a three-year assessment of our academic impacts, looking at where our peer-reviewed work is being cited and how other researchers are engaging with us in scholarly contexts. This review indicated that our work has cross-disciplinary appeal, a global reach, and is being used by scholars at many different stages of their careers.

<https://knology.org/article/our-academic-impacts/>

Our Social Impacts

In addition to documenting our academic impacts, we created a new space on the Knology website for highlighting some of the broader social impacts of our work. Our social impacts statement highlights specific ways we have transformed scholarly knowledge into practical, concrete, evidence-based actionable interventions. In order to help us assess our own performance as an organization, we aligned these examples with our five strategic goals.

<https://knology.org/about/our-impacts>



Financial Stability

In 2022, Knology turned inward to invest in our long-term vision as staff and the board contemplated and planned for a post-founder reality. Through the year, Knology used some of its reserves to fund this transition. Overall, Knology closed the fiscal year in strong financial standing with project work holding steady and partnerships thriving.

PKF O'Connor Davis performed our 2022 audit and issued an unmodified opinion. We summarize our financial standing on the following pages. The full audit is available on request.

Statement of Financial Position

Assets

	2022	2021
Cash and cash equivalents	\$ 673,689	\$ 687,394
Contract service fees receivable	181,092	168,161
Prepaid expenses	22,623	22,893
Security deposits	24,670	24,670
Right of use assets – operating lease, net	236,554	-
Property and equipment, net	11,523	24,514
Total assets	\$ 1,150,151	\$ 927,632

Liabilities and Net Assets

Liabilities

Accounts payable and accrued expenses	\$ 67,633	\$ 60,088
Lease payable	273,301	-
Deferred rent	-	45,452
Unearned revenue	147,026	144,015
Total liabilities	487,960	249,555
Net assets with donor restrictions	662,191	678,077
Total liabilities and net assets	\$ 1,150,151	\$ 927,632



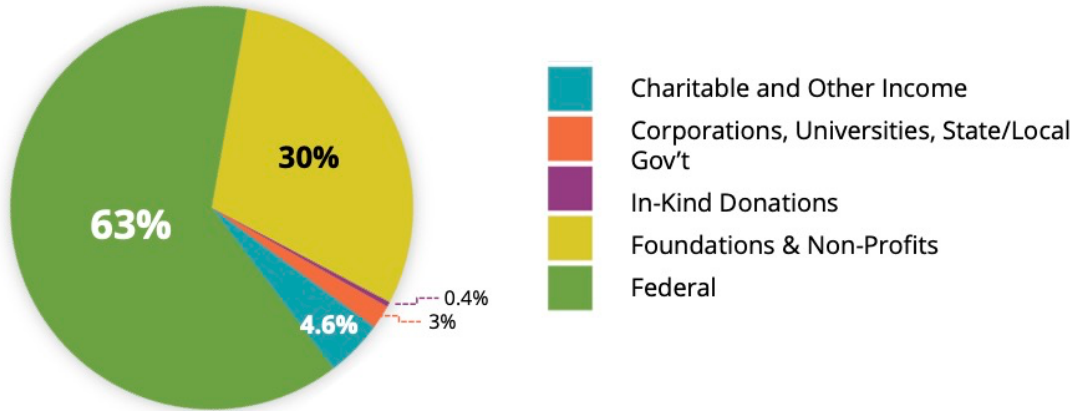
Statement of Activities

<i>Support and Revenue</i>	2022	2021
Contract service fees	\$ 1,322,647	\$ 1,443,429
Contributions	52,011	60,829
Government grant (CARES Act / PPP Loan)	-	193,617
In-kind contributions*	5,102	10,617
Other	9,188	10,084
Total support and revenue	1,388,948	1,718,576
 <i>Expenses</i>		
Program services	753,150	854,658
Supporting activities		
Management and general	496,127	402,035
Fundraising	155,557	119,718
Total supporting activities	651,684	521,753
Total expenses	1,404,834	1,376,411
Increase (decrease) in net assets	(15,886)	342,165
Net assets without donor restrictions, beginning of year	678,077	335,912
Net assets without donor restrictions, end of year	\$ 662,191	\$ 678,077

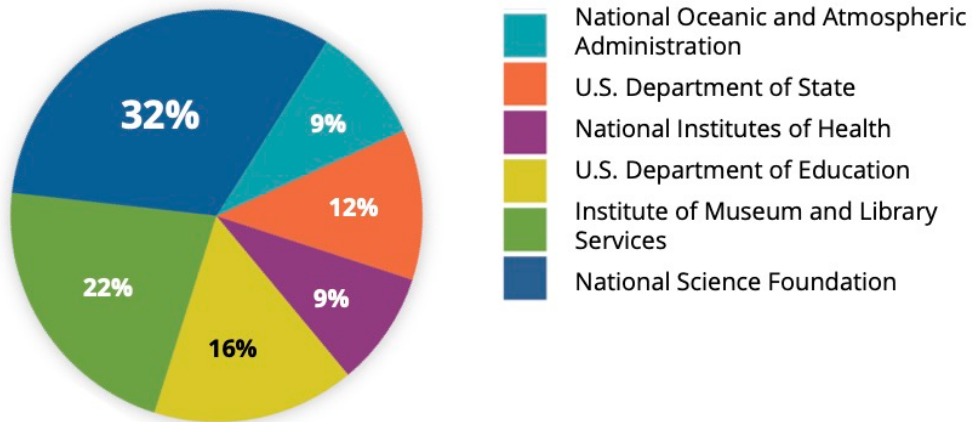
* Excluding in-kind donation of office space from January through June 2021 provided by GFP Real Estate LLC, the landlords for our New York offices. The in-kind donation of office space from October through December 2020 is included.



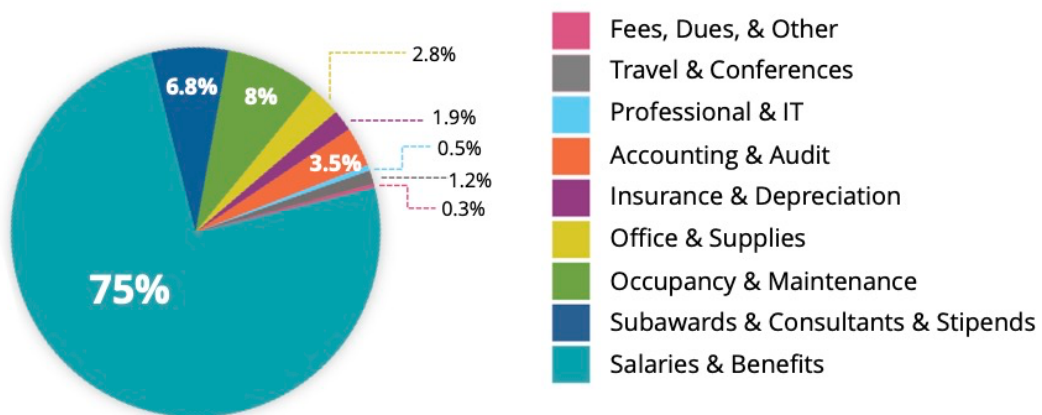
Sources of Revenue



Distribution of Federal Funding



Distribution of Functional Expenses





2022 Knology Team

Staff

Bennett Attaway, B.S. Researcher

Jena Barchas-Lichtenstein, Ph.D. Researcher

Elliott Bowen, Ph.D. Writing & Communications Lead

Joanna Laursen Brucker, Ed.M. Chief Operating Officer

Johann Chacko, Researcher

James Cribbs, M.A., Writer

Ian Dougherty, CPA Chief Financial Officer

Shaun Field, M.A. Programs Manager & Researcher

John Fraser, Ph.D., AIA. President & CEO

Olivia Killingsworth, Finance Team

Nicole LaMarca, M.A. Project Manager & Researcher

Rebecca Norlander, Ph.D. Researcher

Melina Sherman, Ph.D. Researcher

Uduak Grace Thomas, M.A., Writer & Manager of Communications

Laura Tietjen, M.A. Researcher & Administrator

John Voiklis, Ph.D. Researcher

Board of Trustees

Adam Wasserman, J.D., Board Chair, Audit Committee Chair

Carolyn Gray, Vice-Chair, Research Integrity Officer

Jenna Hayes, J.D., Secretary, Legal Committee Chair

Thomas Graham, Ph.D., Treasurer, Finance Committee Chair

Jeanne Achille, Trustee

Kashif Ahkter, Trustee,

Robert Davis DVM, Trustee

Batool Hussain, Trustee

Antoinette La Belle, Trustee

Manoj Panjwani, Trustee, Growth Committee Chair

Greg Parets, J.D., Trustee

Evangelos Perros, Trustee

Suzanne Salomon, Trustee

Leonard P. Singh, Trustee

Jack Sanderson, Trustee, Organizational Development Committee Chair

Anna Soubbotina, Trustee

John Fraser, Ph.D., AIA, President & CEO (*ex officio*)

Research Fellows

Nezam Ardalan, M.A.

Audrey Barbakoff, Ph.D.

Joseph de la Torre Dwyer, Ph.D.

Ed Greene, Ph.D.

Joseph Fridman, M.A.

Erwin de Leon, Ph.D.

William Lynn, Ph.D.

Kin Kong, Ph.D.

Reyhaneh Maktoufi, Ph.D.

Lavanya Murali Ph.D.

Christina Shane-Simpson, M.A., Ph.D.

Beverly K. Sheppard, M.A.

Shelley Stern, LCSW, Ed.M.



2022 Publications

Peer Reviewed

- Barchas-Lichtenstein, J. (2022). A three-dimensional model of news recirculation: Towards a unified understanding of news sharing. *Journalism Studies*, 24(2), 153-171. <https://doi.org/10.1080/1461670X.2022.2150264>
- Barchas-Lichtenstein, J., Voiklis, J., Attaway, B., Santhanam, L., Parson, P., Thomas, U.G., Isaacs-Thomas, I., Ishwar, S., & Fraser, J. (2022). Number soup: Case studies of quantitatively dense news. *Journalism Practice*. <https://doi.org/10.1080/17512786.2022.2099954>
- Hoyer, J., Holt, K., Voiklis, J., Attaway, B., & Norlander, R.J. (2022). Redesigning program assessment for teaching with primary sources: Understanding the impacts of our work. *The American Archivist*, 85(2), 443-479. <https://doi.org/10.17723/2327-9702-85.2.443>
- Malle, B. F., Guglielmo, S., Voiklis, J., & Monroe, A. E. (2022). Cognitive blame is socially shaped. *Current Directions in Psychological Science*, 31(2), 169-176. <https://doi.org/10.1177/09637214211068845>
- Morrissey, K., Fraser, J., & Ball, T. (2022). Addressing social issues in informal STEM learning: a review of progress, potential, and gaps. *Museums & Social Issues*. <https://doi.org/10.1080/15596893.2022.2111883>
- Morrissey, K., Fraser, J., & Ball, T. (2022). Museums and social issues: Heuristics and professional practice. *Museums and Social Issues*, 20(2), 190-204. <https://doi.org/10.29311/mas.v20i2.3814>
- Voiklis, J., Barchas-Lichtenstein, J., Attaway, B., Thomas, U.G., Ishwar, S., Parson, P., Santhanam, L., & Isaacs-Thomas, I. (2022). Surveying the landscape of numbers in U.S. news. *Numeracy*, 15(1), Article 2. <https://doi.org/10.5038/1936-4660.15.1.1406>

Editorials

- Barchas-Lichtenstein, J., & Voiklis, J. (2022, January 6). Omicron is spreading fast, but not as fast as first reported. *Fast Company*. <https://www.fastcompany.com/90711027/omicron-is-spreading-fast-but-not-as-fast-as-first-reported>
- Coleman, L.-E. S., Fraser, J., & Doering, Z.D. (2022). Save the Ukrainian people first: They carry their culture in their hearts. *Curator: The Museum Journal*, 65(1), 5-14.
- Fraser, J. (2022). Museum languages. *Curator: The Museum Journal*, 65(2), 229-230.
- Fraser, J. (2022). History and self-determination. *Curator: The Museum Journal*, 65(3), 477-478.
- Fraser, J. (2022). Authorship, ethics, and community-based museum research. *Curator: The Museum Journal*, 65(4), 725-728.

Publications for Professionals

Global Media Makers Year 5

- Barchas-Lichtenstein, J., Brucker, J.L. & LaMarca, N. (2022). Fall 2021 Virtual Workshops. Knology Publication #DOS.172.732.02. Knology.
- Barchas-Lichtenstein, J., Gupta, R., Cribbs, J., Thomas, U.G., Attaway, E., Brucker, J.L., & LaMarca, N. (2022). Global Media Makers Year 5: Fall 2021 Residency, Microgrants, & Outreach. Knology Publication #DOS.172.613.04. Knology.
- Barchas-Lichtenstein, J., Brucker, J.L., LaMarca, N., Gupta, R., Nock, K., Ardan, N., & Chacko, J. (2022). Global Media Makers Year 5 summative report: Film mentorship in uncertain times. Knology Publication #DOS.172.613.05. Knology.



Global Media Makers Year 6

Barchas-Lichtenstein, J., Brucker, J.L. & LaMarca, N. (2022). Fall 2021 Virtual Workshops. Knology Publication #DOS.172.732.02. Knology.

Barchas-Lichtenstein, J., Brucker, J. L., & LaMarca, N. (2022). Summer Workshops & the Year 6 Residency. Knology Publication #DOS.172.732.03. Knology.

Global Media Makers Year 7

Barchas-Lichtenstein, J., Brucker, J.L., & LaMarca, N. (2022). Evaluation Kickoff. Knology Publication #DOS.172.783.01. Knology.

Barchas-Lichtenstein, J., Brucker, J. L., & LaMarca, N. (2022). Summer 2022 outreach opportunities. Knology Publication #DOS.172.783.02. Knology.

Coding With Empathy Challenge

Norlander, R. J., Field, S., Attaway, B., & Voiklis, J. (2022). Evaluation of the Coding with Empathy Challenge: A promising foundation. Knology Publication #DOS.184.830.01. Knology.

Including Neurodiversity in Foundational and Applied Computational Thinking

Barchas-Lichtenstein, J., Attaway, B., Brucker, J. L., & Field, S. (2022). INFACT activity feedback. Knology Publication #EDU.051.602.02. Knology.

Attaway, B., & Voiklis, J. (2022). INFACT Efficacy Report. Knology Publication #EDU.051.602.03. Knology.

Building Secondary English Learner Educator and Administrator Leadership

Barchas-Lichtenstein, J., Attaway, B., Voiklis, J., & Brucker, J.L. (2022). B-SEAL for Multilingual Learners: Year 1 Evaluation Report. Knology Publication #EDU.055.795.01. Knology.

Attaway, B., Barchas-Lichtenstein, J., Voiklis, J., & Brucker, J.L. (2022). B-SEAL for Multilingual Learners: Year 1 Evaluation Report Appendix. Knology Publication #EDU.055.795.01-A. Knology.

Barchas-Lichtenstein, J., & Brucker, J. L. (2022). B-SEAL Y1 Presentation of Findings. Knology Publication #EDU.055.795.02. Knology.

ACM Trends Reports Series

Field, S., Voiklis, J., Thomas, U.G., Attaway, E., Musser, A., & ACM Staff (2022). Museums in a Pandemic: Confidence in Meeting Operational Needs. ACM Trends 4(14). Knology & Association of Children's Museums.

Field, S., Fraser, J., Thomas, U.G., Voiklis, J., & ACM Staff (2022). The Expanding Role of Virtual Programming in Children's Museums. ACM Trends 5(1). Knology & Association of Children's Museums.

Field, S. Voiklis, J., Attaway, B., Fraser, J. & Bowen, E. (2022). Value Pricing and the Cultivation of Public Trust. ACM Trends 6(1). Knology & Association of Children's Museums.

Burg, S. (2022). Parents & Caregivers Preferences for Virtual Programming. ACM Trends 5(2). Knology & Association of Children's Museums.

Voiklis, J. (2022). Key Concepts: Trust. ACM Trends 5(3). Knology & Association of Children's Museums.

National Children's Museum Staff (2022). Virtual Programming in Action: National Children's Museum. ACM Trends 5(4). Knology & Association of Children's Museums.



Wild Where We Live: Online and Experiential Enrichment for Early Learning Support

Norlander, R. J. (2022). Baseline Staff Focus Group Briefing. Knology Publication #IML.121.851.01. Knology.

Norlander, R. J., LaMarca, N., & Field, S. (2022). Wild Where We Live: Connecting Families to Nature. Knology Publication # IML.121.851.02. Knology.

Norlander, R. J., LaMarca, N., & Field, S. (2022). Wild Where We Live Appendix: Connecting Families to Nature. Knology Publication # IML.121.851.02-A. Knology.

PBS NewsHour: Health Literacy

Voiklis, J., Attaway, B., Barchas-Lichtenstein, J., LaMarca, N., Thomas U. G., & Fraser, J. (2022). Health news to improve awareness of public health topics. Knology Publication #NIH.100.098.12. Knology.

Discover SCIENCE with Dr. Bear

Norlander, R. J., Field, S., Sherman, M., Bowen, E., & Fraser, J. (2022). Discover SCIENCE with Dr. Bear® Summative Evaluation Report. Knology Publication #NIH.090.140.10. Knology.

Norlander, R.J., Field, S., Sherman, M., Bowen, E., and Fraser, J. (2022). Discover SCIENCE with Dr. Bear® Summative Evaluation Report - Appendix. Knology Publication #NIH.090.140.10-A. Knology.

Mentored Experience to Expand Opportunities in Research

Field, S., Norlander, R.J., & Thomas, U.G. (2022). Recapping Year 5 & Planning for the Future. Knology Publication #NIH.090.362.05. Knology.

Resilient Schools Consortium

Field, S., Gupta, R., LaMarca, N., Chacko, J., Fraser, J., & Bowen, E. (2022). Resilient Schools Consortium (RISC) Phase II: Year 2 Evaluation Report, Connecting Schools to Coastal Communities. Knology Publication #NOA.192.681.01. Knology.

Expanding Capacity of the National Network for Ocean and Climate Change Interpretation: Training Enhancement, Network Resilience, and Equitable, Inclusive Outreach

LaMarca, N., Chacko, J. & Fraser, J. (2022). NNOCCI Expansion: JEDI Evaluation Brief. Knology Publication #NOA.204.799.01. Knology.

Climate Empowerment Theories of Change and Logic Models

Niepold, F., Fraser, J., Crim, H., & Field, S., (Eds.) (2022). *A proposed climate empowerment theory of change for the United States of America, its territories, protectorates and the sovereign nations within its borders*. Knology. https://bit.ly/ClimateEmpowerment_ToC

Thinking Money for Kids

Norlander, R.J., Attaway, E., LaMarca, N., & Thomas, U.G. (2022). Topline C: Cohorts 5-7. Knology Publication #NPO.074.511.07. Knology.

Norlander, R. J., & Attaway, B. (2022). Topline D: Cohorts 8-10. Knology Publication #NPO.074.511.08. Knology.

Norlander, R.J., Attaway, B., & Bowen, E. (2022). Topline E: Cohorts 11-12. Publication #NPO.074.511.09. Knology.

Libraries as Entrepreneurial Hubs

Norlander, R., Gupta, R., Brucker, J.L., Field, S., & Attaway, E. (2022). Baltimore Public Library Data Report. Knology Publication #NPO.180.636.10. Knology

Norlander, R.J., Gupta, R., Brucker, J.L., Thomas, U.G., Musser, A., Field, S., & Attaway, B. (2022). Entrepreneurship: Where Urban Libraries Fit. Knology Publication #NPO.180.636.15. New York: Knology.



Norlander, R., Gupta, R., Brucker, J.L., Field, S., & Attaway, E. (2022). Mid-Continent Public Library Data Report. Knology Publication #NPO.180.636.12. Knology.

Thomas, U.G., Gupta, R., & Norlander, R. (2022). Local Library Supports Independent Authors Seeking to Promote & Market their Work. Knology Publication #NPO.180.636.03. Knology.

Thomas, U.G., Gupta, R., & Norlander, R. (2022). How One Entrepreneur is Building a Business Around Fitness and Plant-based Nutrition. Knology Publication #NPO.180.636.04. Knology.

Thomas, U.G., Gupta, R., & Norlander, R. (2022). How One Entrepreneur is Using their Business to Build a More Inclusive Society. Knology Publication #NPO.180.636.05. Knology.

Thomas, U.G., Gupta, R., & Norlander, R. (2022). In Kansas City, A Local Entrepreneur is Building a Business Around a Family Tradition. Knology Publication #NPO.180.636.06. Knology.

Thomas, U.G., Gupta, R., & Norlander, R. (2022). In Kansas City, A Local Non-Profit is Sparking a Renewed Interest in Sewing. Knology Publication #NPO.180.636.08. Knology.

Thomas, U.G., Gupta, R., & Norlander, R. (2022). In Toledo, One Entrepreneur is Educating Her Community About Natural Hair Care. Knology Publication #NPO.180.636.07. Knology.

Searching For Justice

Norlander, R.J., Barchas-Lichtenstein, J., & Musser, A. (2022). Searching for Justice Panel Review 2: November Stories. Knology Publication #NPO.100.653.05. Knology.

Chacko, J., Norlander, R. J., & Barchas-Lichtenstein, J. (2022). Searching for Justice Panel Review 3: April Stories. Knology Publication #NPO.100.653.06. Knology.

Barchas-Lichtenstein, J., Norlander, R. J., & Chacko, J. (2022). Searching for Justice Panel Review 4: "Life After Lockup". Knology Publication #NPO.100.653.07. Knology.

Family Place

Norlander, R., Gupta, R., Field, S., Brucker Laursen, J., Flinner, K., Nock, K. (2022). The Family Place Network. Sustaining & Growing. Knology Publication #NPO.158.672.01. Knology.

Norlander, R., Gupta, R., Field, S., Brucker Laursen, J., Flinner, K., Nock, K. (2022). The Family Place Network. Sustaining & Growing Appendix. Knology Publication #NPO.158.672.01-A. Knology.

PTS Online Learning Research

Voiklis, J., Barchas-Lichtenstein, J., Field, S., & Thomas U.G. (2022). IYF-Passport to Success®: A Pilot Study to Assess Participant Learning Outcomes. Knology Publication #NPO.189.745.02. Knology.

PBS NewsHour Race Matters

Attaway, E., Barchas-Lichtenstein, J., & Shane-Simpson, S. (2022). Race Matters Year 1 Topline Report. Knology Publication #NPO.100.766.01. Knology.

Shane-Simpson, C. & Barchas-Lichtenstein, J. (2022). Race Matters Year 1 Topline Report: Appendix. #NPO.100.766.01-A. Knology.

PBS NewsHour Economic Mobility

Barchas-Lichtenstein, J., Attaway, B., LaMarca, N. & Chacko, J. (2022). PBS NewsHour Economic Mobility: Audience Learning about Mobility. Knology Publication #NPO.100.784.01. Knology.

Chacko, J. & Barchas-Lichtenstein, J. (2022). PBS NewsHour Economic Mobility Appendix: Audience Learning about Mobility. Knology Publication #NPO.100.784.01-A. New York: Knology.



Measuring What Matters

Fraser, J., Thomas, U.G., Field, S., Gupta, R. & Attaway, B. (2022). Opportunities for growth & impact. Knology Publication #NPO.197.808.01. Knology.

NEFE Database & Mapping Tool Training Resources

Knology. (2022). New Directions in Financial Education Research. Knology Publication #NPO.174.822.01. Knology.

Libraries Transforming Communities: Accessible Small and Rural Libraries

Sherman, M. (2022). Accessibility in Libraries: A Landscape Review. American Library Association & Knology. <https://www.ala.org/tools/sites/ala.org.tools/files/content/220928-ppo-ltc-access-landscape-review.pdf>

Empatico Framework & Theory of Change

Voiklis, J., Sherman, M., & Brucker, J. L. (2022). Review of Empatico's framework & logic model. Knology Publication #NPO.184.865.01. Knology

Meaningful Math

Barchas-Lichtenstein, J., & Attaway, E. (2022) Meaningful Math Briefing #2: Math Anxiety. Knology Publication #NSF.100.556.05. Knology.

Attaway, B., Barchas-Lichtenstein, J., & Voiklis, J. (2022). Numbers in the news: Social desirability bias. Knology Publication #NSF.100.556.06. Knology.

Barchas-Lichtenstein, J., & Attaway, B. (2022). Meaningful Math Briefing #3: Math Anxiety Revisited. Knology Publication #NSF.100.556.07. Knology.

Attaway, B., Barchas-Lichtenstein, J., & Voiklis, J. (2022). Numbers in the News: Inflation Explanations. Knology Publication #NSF.100.556.08. New York: Knology.

UniVRsal Access: Broadening Participation in Informal STEM Learning through Virtual Reality

Attaway, E., Barchas-Lichtenstein, J., & Thomas, U.G. (2022). Fall 2021 Co-design Process Analysis. Knology Publication #NSF.051.662.03. Knology.

Attaway, B., Barchas-Lichtenstein, J., & Brucker, J. L. (2022). UniVRsal Access: Co-design process report, Spring 2022. Knology Publication #NSF.051.662.04. Knology.



Knology®

Behaviors

Biosphere

Culture

Media

Systems

Wellbeing

Knology.org
info@knology.org

tel: (442) 222-8814
3630 Ocean Ranch Blvd.
Oceanside, CA 92056

tel: (347) 766-3399
40 Exchange Pl. Suite 1403
New York, NY 10005