



Scientific Reproducibility, Data Management, and Inspiration

BY RACHEL ROSENBERG

“SCIENCE MOVES FORWARD BY CORROBORATION—when researchers verify others’ results,” the journal *Nature* states in its July special edition on Challenges in Irreproducible Research. “There is a growing alarm about results that cannot be reproduced. . . . Journals, scientists, institutions and funders all have a part in tackling reproducibility.”

Science faculty across the disciplines are increasingly taking up the challenge to publish their research in ways that are more easily reproduced, and librarians are collaborating with these researchers to ensure that rigorously collected data, metadata, and algorithms are preserved and made accessible to the research community.

“Many of these efforts revolve around teaching, planning, and practicing excellent data management throughout the research life cycle, from grant writing to publication,” said Elisabeth Long, Associate University Librarian for Information Technology and Digital Scholarship. “The University of Chicago Library is offering a growing set of data management research and teaching

services that help UChicago scientists win grants and produce and publish reproducible results that will shape the future of their fields.”

Librarian Elisabeth Long (left) discusses a data management plan with Professor Stefano Allesina.

Teaching Good Data Management from the Beginning

The UChicago Biological Sciences Division recently played a leading part in improving graduate education in its discipline by developing a National Science Foundation-funded course called *Responsible, Rigorous, and Reproducible Conduct of Research: R3CR*. All UChicago first-year BSD graduate students are required to take the course, learning how to use current methods in computational biology in an ethical and reproducible way. Elisabeth Long has partnered with the course’s creators, Professors Victoria Prince, Stefano Allesina,

EXPANDING SERVICES FOR FACULTY IN A CHANGING ENVIRONMENT

BY BRENDA L. JOHNSON,
Library Director and University Librarian



Brenda L. Johnson
Library Director and University Librarian

Today's scholarly environment presents an increasing array of challenges and opportunities for faculty and graduate students.

New funding agency requirements call on researchers to present advance plans for openly sharing and preserving their data. Researchers are seeking ways to obtain data in new formats, to visualize information in new ways, and to rescue and share data for new purposes. Across disciplines, researchers are constantly challenged to find and adopt new tools and techniques. The Library is meeting this challenge by launching new initiatives, developing cutting-edge skills among our librarians, and bringing on new staff members who can assist researchers in this changing scholarly environment.

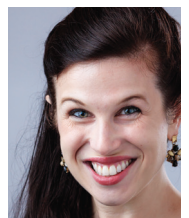
The Library's new **Center for Digital Scholarship** (CDS) will be an umbrella for many of these services, facilitating the analysis of complex data, the visualization of theoretical relationships, the preservation of core research, and the sharing of research results. **Stacie Williams**, who joined the Library in August as the inaugural **CDS Director**, brings experience working with researchers in her previous position managing the Freedman Center for Digital Scholarship at Case Western Reserve University. Williams is working with subject librarians and faculty to identify priorities for establishing new spaces, technical infrastructure, and services that meet research and teaching needs. Following are some of the key areas in which initiatives are already underway.



Stacie Williams
*Center for Digital
Scholarship Director*

Data Preservation and Sharing

The Library is expanding Knowledge@UChicago, the University's digital institutional research repository, to better support the needs of data preservation. Led by new **Scholarly Communications Librarian Nora Mattern**, the Library is migrating Knowledge@UChicago to a new platform that was initially developed at CERN to support high energy physics. The new Knowledge@UChicago will launch in January and will provide funder-compliant solutions for researchers to share and preserve their code, data, and research results. Mattern also provides consultations on good data management practices, writing data management plans, and copyright.



Nora Mattern
*Scholarly
Communications
Librarian*

The Library is also partnering with the Energy Policy Institute at Chicago (EPIC) to host a Council on Library and Information Resources **Postdoctoral Fellow in Energy Economics Data Curation, Ana Trisovic**. Trisovic is focusing on the particular challenges EPIC faculty face in collecting and preserving energy data, which is often



available only from private industry or difficult-to-use government websites. She will be building a clearinghouse for EPIC's data to facilitate discovery and reuse, as well as developing solutions for preserving and sharing the code that researchers use to analyze their data. Trisovic will use the skills she gained earning a PhD in Computer Science and her experience developing similar preservation solutions at CERN, applying them to the field of energy economics.

Data Acquisition and Use

The challenge of acquiring data for research is shared by many disciplines. For example, the Library subscribes to thousands of electronic books and journals, but researchers interested in data mining these texts cannot easily do so using the vendor's PDFs, which are intended for individual reading. **Kristin Martin**, the Library's **Director of Technical Services**, excels at working with publishers to provide alternative access that is optimized for data mining. The Library's subject specialists can work with faculty across the disciplines and with Martin to seek such alternative access. **Elizabeth Foster**, the Library's new **Social Sciences Data Librarian**, can take this one step further, not only helping researchers find and acquire relevant data, but also helping them transform that data, for example, by formatting it to match the requirements of a particular tool. Foster will offer workshops and will be developing data analysis consultation services, with a focus on using R and Stata.



Kristin Martin
Director of Technical Services



Elizabeth Foster
Social Sciences Data Librarian



Cecilia Smith
GIS and Maps Librarian

Geospatial Analysis

Faculty in many disciplines are exploring the ways spatial and temporal analysis and visualization can be used to gain new insights into their data. **Cecilia Smith**, the Library's new **GIS and Maps Librarian**, can consult on the use of GIS information and geospatial tools to analyze and visualize trends in data from mapping the shifts in the border of the Roman Empire over time, to plotting the incidence of traffic accidents in relation to red light cameras, to mapping the impact of environmental factors on health outcomes, and more. See page 5 for more information about our new GIS Hub.

At-Risk Data and Data Rescue

Researchers interested in documenting historical trends are often stymied when early data are in analog formats not conducive to data analysis. Heritage data—such as weather data and astronomical observations—are often the only evidence remaining of ephemeral or disappearing phenomena. The Library is currently partnering with the Humanities Division to ensure that the UChicago Digital Media Archive's linguistic and ethnomusicology recordings made by former faculty are converted from fragile magnetic tape to a digital form that can be used by researchers today. We are also working with the Ivy Plus Libraries on a web archiving project. **Sarah G. Wenzel**, **Bibliographer for the Literatures of Europe and the Americas**, co-developed a proposal with a colleague at Columbia University to create a digital archive of comics and artists' websites. Currently, more than 150 websites are being actively archived by this project and can be found at archive-it.org/collections/10181.



Sarah G. Wenzel
Bibliographer for the Literatures of Europe and the Americas

The expert and talented staff members of the Library are committed to expanding services that meet faculty needs in this changing environment. We look forward to working with you and encourage you to visit our Center for Digital Scholarship web page at lib.uchicago.edu/research/scholar/digitalscholarship/ and to contact your subject specialist, Stacie Williams, or Elisabeth Long, Associate University Librarian for Information Technology and Digital Scholarship, to discuss your research needs.

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BY JOSE ESTRADA, Ph.D. candidate, Romance Languages and Literatures

DIGITIZING the “New World”

An intern discovers and shares the works of early modern mapmakers

THE ENCOUNTER IN 1492 BETWEEN EUROPEANS AND AMERINDIANS initiated a centuries-long inquisitive and nautical quest by Europeans to know more about the American continent and its inhabitants. How did Europe make sense of these lands and their people? How did it fit within their cosmos?

Although there are many ways to approach these questions, I have come to realize that maps, as representations of space, can provide an understanding of the cartographers’ perspective. Therefore, when Andrea Twiss-Brooks, the Library’s Interim Co-Associate University Librarian for Research and Learning, offered me the opportunity to work with early modern maps over the summer, I knew the experience would provide insight about the depiction of the “New World” in this period. As a Graduate Global Impact Pitch Intern, I collaborated with University of Chicago Library staff members to digitize early modern maps of



Details from (TOP) Willem Janszoon Blaeu, “Americae nova Tabula” (1635) and (BOTTOM) Willem Janszoon Blaeu, “Nova Totius Terrarum Orbis Geographica Ac Hydrographica Tabula” (1635). In *Atlantis Appendix*.



Opening a GIS Hub at Crerar Library

BY CECILIA SMITH, GIS and Maps Librarian

the Americas and make them accessible to the academic community. The project entailed investigating maps in both the Map Collections and Special Collections, researching online databases, scanning selected maps that had not yet been



Jose Estrada

digitized, enhancing the Library Catalog records for the maps, and uploading them to a repository or image server for public access. The different layers of the project require close

collaboration with the Library's experts in preservation, scanning, metadata, and GIS mapping technology among others.

My research as a doctoral candidate has provided me with some background in the relationship between Spain and the Americas, but my previous experience was limited to literature and theater.

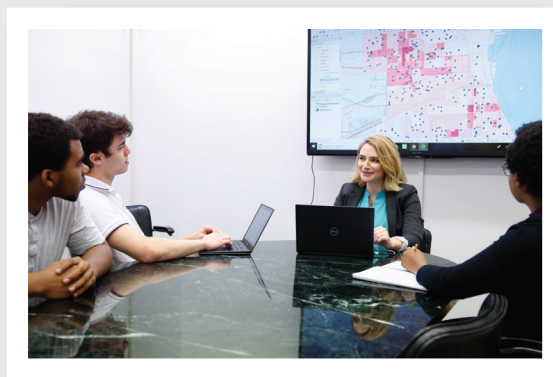
Cartographic research in the Map Collection and Special Collections has allowed me to work with specialists in different areas within the Library and widen my perspective regarding maps. Willem Janszoon Blaeu's *Americae nova Tabula* (1635) serves as an example. In addition to considering the political, anthropological, and topographical uses of this map of North and South America, I have come to learn that the careful light color washing not only pleases the beholder's eye but also highlights the fine detail in the Dutch engraving technique.

While this project provides a new angle for studying the influence of the Americas in European cosmology, scanning and uploading these maps is also a refreshing way to combine the humanities and technology. Once the images are available online they can be displayed and layered in multiple ways, enabling new research endeavors. Acquainting myself with these tools is a skill that will have long-lasting value in my career as a scholar of early modern studies.

LOCATION IS IMPORTANT. Tracking the movement of contagious disease helps contain its spread. Demographic geography influences access to financial and retail services. Virtualized medieval cities provide opportunities to explore the contexts of historical events. Each of these phenomena can be studied with GIS.

Geographic information systems, or GIS, is used to analyze locational information across disciplines such as public health, environmental science, sociology, economics, policy, history, and many more. Faculty and students are increasingly integrating GIS into their research, and opportunities to learn the technology are growing at the University of Chicago.

Thanks to a generous gift from the Kathleen and Howard Zar Science Library Fund and support from the Library Council, the University of Chicago Library is developing a GIS Hub at the John Crerar Library to enable geospatial research and learning activities on campus. The Hub will be located in Crerar's Kathleen A. Zar Room, named in honor of the late director of the science libraries. Brenda Johnson, Library Director and University Librarian, sees the new Hub as critical to supporting research on campus. "The GIS Hub at the Library will provide faculty, students and staff from every discipline at UChicago with access to important technology and resources and, very importantly, the ability to consult with a GIS Librarian with expert knowledge," she said.




GIS and Maps Librarian Cecilia Smith (center) discusses mapping tools and resources with (from left) students Paul Gilbert, II, College '20, and Emil Sohlberg, College '20.

Eight workstations in the Hub will offer GIS software, including QGIS, GeoDa, and ArcGIS. Large, high-resolution monitors will allow detailed visualization work. The GIS Hub will facilitate individual and collaborative work. Instructional technology will also provide a venue for geospatial workshops and demonstrations.

As the new GIS and Maps Librarian, I will support faculty and students through consultations on gathering and exploring geospatial data, spatial literacy, and visualizing geographic information. I will also offer workshops on working with GIS data and getting started with the software. At Chicago, I will build on my recent experience as a Clinical Assistant Professor and the Geospatial Librarian at Texas A&M University Libraries, where I collaborated on research projects with faculty from geography, sociology, anthropology, history, urban planning, and ecosystem science. The Early Modern Shipwreck project at modernshipwrecks.com is a good example of one of my collaborations with faculty where I provided geospatial expertise.

The GIS Hub opens to the campus community in Fall 2018, located with the new Media Arts, Data, and Design Center on the first floor of the newly renovated Crerar Library. The Media Arts, Data and Design Center will open in early Winter Quarter. This co-location is an exciting opportunity for faculty and students to access technological and maker resources for interdisciplinary research and learning.

For questions regarding GIS resources at the Library, please contact me at ceciliasmith@uchicago.edu.



Librarian Nora Mattern
and Professor Stefano Allesina

SCIENTIFIC REPRODUCIBILITY, DATA MANAGEMENT, AND INSPIRATION *continued from page 1*

and Stephanie Palmer, to provide a class session that introduces students to the principles of data management in the lab setting.

“Biology produces a lot of data, and we have seen the kind of mistakes that people can make that are terrifying,” Professor Allesina said. “Elisabeth talked a lot about how you make sure that you’re keeping your data safe throughout your thesis research: how you should name your files, where you should save your files, how you make sure they are saved for posterity, and where there are institutional repositories or online repositories where you can publish your data.”

The Library is partnering with researchers across campus to develop practices and tools that can facilitate the kind of recordkeeping and data curation that is currently demanded of scientists. Librarians are offering workshops and training sessions that prepare UChicago students to graduate with exceptional data management and preservation skills.

Electronic Lab Notebooks and Data Management Plans

This Autumn Quarter, the Library’s new Center for Digital Scholarship begins offering drop-in consultation hours and customized one-on-one sessions to work with faculty on their data management plans, choosing between the University’s Knowledge@UChicago research repository and disciplinary archives for preserving and sharing research outputs.

The Center will also offer advice on selecting and using research management tools such as electronic lab notebooks and the Open Science Framework. Research management tools provide platforms where faculty can centralize all their research activities, enabling easy file management, version control, protocol sharing, analysis activities, email, and other interactions between members of a lab. “One challenge confronting researchers is choosing from among the many existing systems,” Long said. “The Center for Digital Scholarship’s consultation services can pair librarians with individual faculty members, or bring sessions to your labs to explore the best solution for your particular research scenario.”

When the Data Don’t Stand Alone

Complex research workflows that present particular challenges for reproducibility often occur in fields where data are processed multiple times before final analysis. “In such cases, preserving the data alone is insufficient to support reproducibility,” Long explained. “The computational code for processing the data must also be preserved along with its relation to the data at various stages of processing.”

Marco Govoni, a researcher at the Institute of Molecular Engineering and Argonne National Laboratory, has been developing a tool for mapping and documenting these

relationships, Qresp: Curation and Exploration of Reproducible Scientific Papers (at qresp.org). Librarians are working with Govoni to explore ways in which the Library could support his work and potentially integrate it with the Library’s new institutional repository platform.

Data and Inspiration

In consulting with librarians, faculty sometimes discover unexpected sources of data, inspiring new research projects. When Long was talking to the R3CR class about data management and how they will submit their dissertations to ProQuest, a national dissertation repository, Professor Allesina began to consider the value its metadata could provide for the study of careers in science. “There’s a lot of interest in trying to see if we can improve the situation in the sciences by increasing representations, for example, of women or minorities,” Allesina explained, “but one thing that we lack is some sort of longitudinal analysis, because once PhD students are out the door, it’s very difficult to find them again.”

At Allesina’s request, Long put him in touch with the Library’s Director of Technical Services, Kristin Martin, who worked with ProQuest to obtain the name, institution, and year of graduation for dissertation authors from the U.S. and Canada from 1993 to 2015. He is now planning to combine that metadata with publication data from Scopus to track the length and locations of scientists’ careers in academia.

Such a study raises specific reproducibility challenges. In working on a grant proposal to the National Science Foundation to support this research, Allesina turned to Nora Mattern, Scholarly Communications Librarian, and Debra Werner, Director of Library Research in Medical Education, for advice on how to integrate proprietary data owned by ProQuest and Scopus into the data management plan. “How much can you share with other scientists?” Allesina asked. “Can you share some summary statistics of the data? Can you share de-identified data?” Mattern and Werner helped him to structure the data management plan and to consider the legal implications.

When Allesina came to the United States from Italy, he was surprised at the role he found librarians taking in the digital age. “Here librarians are thinking forward,” he said. “Nowadays we have this mass of information. How do we navigate that? How do we organize it? How do we make it searchable? I am always amazed that people can be so helpful. I was dreaming of this data about PhDs, and I talked to Elisabeth, and she said ‘let me look into that.’ After a few weeks, I got gigabytes of data.”

His advice to colleagues: “Run it by a librarian before giving up.”

To consult with a librarian on data management and scientific reproducibility, talk to your Library subject specialist or email data-help@lib.uchicago.edu.

Law Resources for University Faculty

BY MARGARET SCHILT, Associate Law Librarian for User Services

THE D'ANGELO LAW LIBRARY subscribes to dozens of legal databases with historical and current law and scholarly commentary to support the University of Chicago community. Legal research tools thought of as primarily for the Law School are useful for a variety of scholarship and teaching in other disciplines.

ProQuest's *Legislative Insight*, *Regulatory Insight* and *Supreme Court Insight* offer efficient and comprehensive ways of exploring legal sources. *Legislative Insight* organizes the legislative history of each enacted federal law. You can search by the popular name of the statute (e.g., *Americans with Disabilities Act*), by citation or keyword. Results include committee hearings and reports, congressional debates and votes, and executive signing statements. *Regulatory Insight* connects researchers with federal regulations created pursuant to congressional authority. *Supreme Court Insight*, which includes opinions, dockets, oral arguments, and briefs from cases from 1975 to 2017, also facilitates understanding the judicial process.

Another core legal resource, *HeinOnline*, is a treasure trove, from complete back files of academic law journals to historical collections of state and territorial laws to the Pentagon Papers. Included among the collections are *Gun Regulation and Legislation in America* and *Slavery in America and the World: History, Culture & Law*. HeinOnline has an impressive range: the *English Reports, Full Reprint* begins with 1220 while the *History of Supreme Court Nominations* concludes with Justice Elena Kagan.

Searching for "law" in the Library's Database Finder tool produces 284 hits, from the *American Civil Liberties Union Papers, 1912-1995* to *WorldTradeLaw.net*. Explore!

For questions about using legal resources, Ask a Law Librarian at lib.uchicago.edu/law/ask-librarian-law.

Librarians Collaborate with Faculty To Help Students Gain Vital Research Skills

BY REBECCA STARKEY, Librarian for College Instruction and Outreach, and ELIZABETH EDWARDS, Assessment Librarian



Rebecca Starkey, Librarian for College Instruction and Outreach (standing), works with students to enhance their research skills.

IN AN ERA OF SOCIAL MEDIA, disinformation, and fake news, helping students learn how to evaluate information is more important than ever. While the University's Core Curriculum teaches undergraduates to critically examine texts, survey responses indicate that students also need help learning to identify, assess, and use sources beyond the syllabus. Librarians are available to work with faculty to design tailored assignments and resources that teach research skills that meet course-specific objectives.

Survey Results Indicate the Value of Library Instruction

In 2017, the Library conducted a survey of undergraduates in order to learn more about their experiences at UChicago. Results demonstrated that students expect to have opportunities to conduct original research while at the University and believe that the research skills developed at UChicago will be essential for their future careers. Once here, however, respondents were uncertain who on campus had responsibility for helping them develop the skills needed to successfully find and use information.

Fortunately, survey responses clearly indicated that Library instruction positively affects students' perceptions of their research skills. While only 38% of survey respondents reported having attended a library program or orientation, those who received this instruction consistently gave higher ratings to their abilities to evaluate academic sources, make ethical use of information, and form evidence-based conclusions than did

those who had not received such training. Respondents who had participated in Library programs were also less likely to start their research with general search engines and nearly twice as likely to begin at the Library's website.

Librarians Create Course-Specific Resources for Faculty

University of Chicago librarians have experience collaborating with faculty and instructors to design programs, assignments, or course-specific resources that help students meet learning objectives while improving their research skills. Below are some examples of ways the Library can help:

- Humanities students are asked to locate a review article about an art exhibition, theater performance, or film. A librarian teaches students how to locate review articles, highlighting the differences between academic sources and those in newspapers and magazines. The class also learns how to critically evaluate arts blogs and websites.

- For a public policy class studying immigrant communities in Chicago, a librarian teaches students how to find U.S. Census data for neighborhoods.

- For a psychology course focusing on adolescent mental health, librarians create an online guide to help students locate studies on the impact of anti-bullying programs on teenage suicide.

If you are interested in exploring options for your course, contact Rebecca Starkey, Librarian for College Instruction & Outreach at rstarkey@uchicago.edu

Archives of TWO GIANTS

THE UNIVERSITY OF CHICAGO is world renowned for the “Chicago School of Economics” and the 30 Nobel laureates in economic sciences who have been UChicago faculty members, students, or researchers. Yet, among historians of economics, definitions of the “Chicago School” continue to be debated.

Three recent gifts to the University of Chicago Library—the papers of Nobel laureate **George Stigler, PhD’38**, the papers of international trade expert **Harry G. Johnson**, and **funding to organize the Johnson papers and create an online finding aid**—will expand scholars’ understanding of the many ways Chicago has shaped the field of economics.

The University of Chicago Library is home to collections of more than 30 economists and 21 Nobel laureates, including seven Nobel Prize-winning economists: Gary Becker, Ronald Coase, Robert Fogel, Milton Friedman, Merton Miller, Theodore Schultz, and George Stigler. “These three generous new gifts will enable scholars to explore the history of economics in new ways,” said Brenda Johnson, Library Director and University Librarian. “They strengthen our University Archives and demonstrate the Library’s ongoing commitment to being a vital center of University of Chicago history and the home of Nobel Prize winners’ research.”

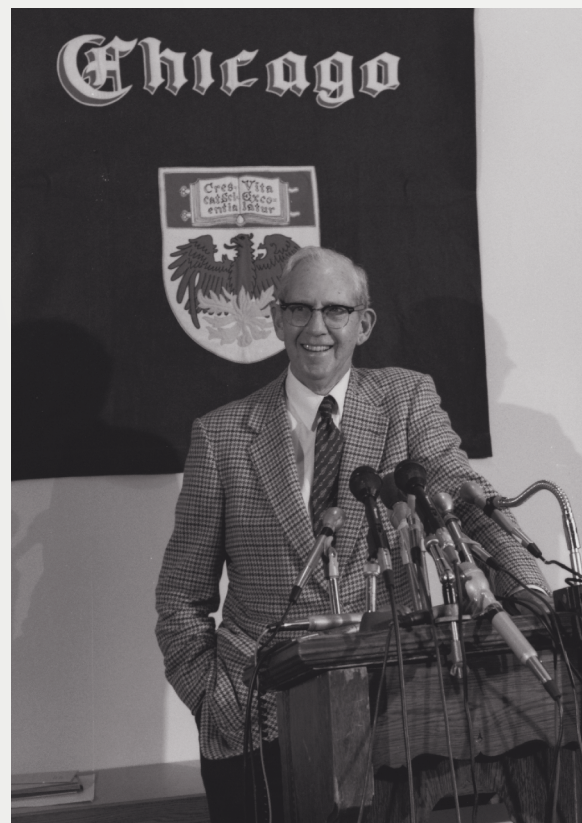
Nobel Laureate George Stigler’s Papers

Frequently thought of as one of the leaders of the “Chicago School,” George Stigler came to the University of Chicago as a graduate student in 1933, received his PhD in 1938 and returned to Chicago as a professor from 1958 until his death in 1991. He was awarded the 1982 Nobel Prize in Economic Sciences “for his seminal studies of industrial structures, functioning of markets and causes and effects of public regulation” and was hailed by the *Journal of Law and Economics* as

“a towering figure in the history of law and economics” and the first to win a Nobel Prize for work in the field.

Stigler is widely known for developing the “Economic Theory of Regulation,” which argues that political and economic interest groups use the coercive and regulatory powers of government to shape laws and regulations that benefit them. He also shaped the education of a generation of undergraduates as the author of *The Theory of Price*, a textbook on free market economics that places its subject in historical context. He initiated the study of the economics of information as a field, arguing that knowledge is costly to acquire and that consumers and businesses therefore must make decisions about how much information to acquire, as they do with goods and services.

George Stigler’s son **Stephen M. Stigler** also became a faculty member at University of Chicago. Currently the Ernest DeWitt Burton Distinguished Service Professor in the Department of Statistics and the College and member of the Committee on Conceptual and Historical Studies of Science, Stephen donated his father’s papers to the University of Chicago Library, where they are available for research in the Special Collections Research Center. A long-time supporter of the Library, chair of the faculty Board of the Library from 1986 to 1989, and chair of the University of Chicago Library Society from 2011 to 2014, Stephen said the papers clearly belonged here: “I never had a thought that they’d go anywhere else because the University of Chicago was such an important part of my father’s life.”



The papers include 70 linear feet of research and teaching materials, correspondence with economists such as Milton Friedman, photographs, and ephemera. Stephen Stigler anticipates that scholars may be particularly interested in some of the short, unpublished pieces that explore economic issues and, in some cases, politics. “He was very interested in politics—not politics as something to push forward, but he thought when people voted a certain way or acted a certain way politically, they were furthering their own interests, and that’s not always obvious from what they did,” Stephen explained. “People sometimes do what could at first glance look foolish, and you wonder why they did it, but if you study it enough, you can find that there is a rational story you can tell to explain what they’re doing. You learn a lot about human behavior in the process.”

International Trade Expert Harry G. Johnson’s Papers

A contemporary of George Stigler’s, Harry G. Johnson came to the University of

of Economics

Gifts of the papers of **George Stigler** and **Harry G. Johnson** will expand our understanding of economics at Chicago



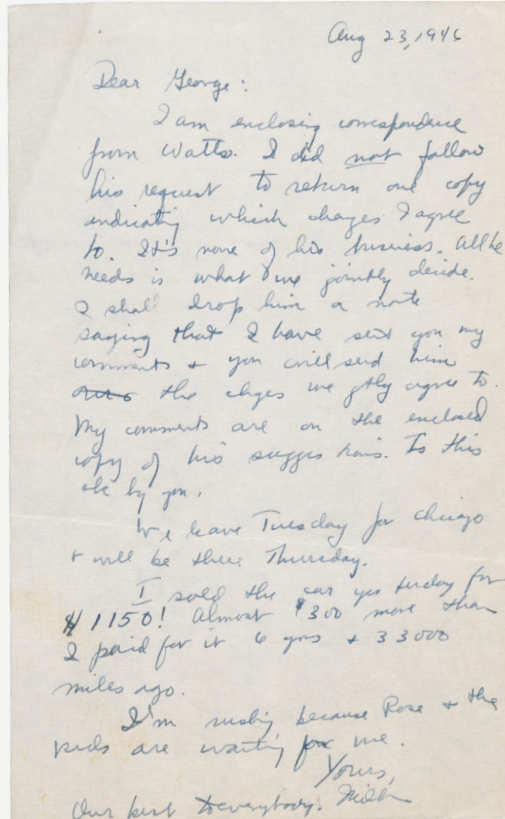
OPPOSITE PAGE: **George Stigler**

FAR LEFT, TOP: **George Stigler** with students

FAR LEFT, BOTTOM: **Harry G. Johnson** (second from left)

LEFT: Letter from Milton Friedman to **George Stigler**, August 23, 1946

All images are from the Special Collections Research Center, The University of Chicago Library.



graduate school days enthusiastically. George Stigler served as the chair of his thesis committee, and Johnson acted as an additional reader. "Every time I would talk to Harry, he would remind me that his first article was on David Ricardo, and my dissertation was on David Ricardo," he said. Levy was particularly proud when, after a painful meeting with the committee, Johnson showed confidence in him by citing a paper he wrote in *The Two-Sector Model of General Equilibrium*.

Levy expects his gift will help future scholars better understand Johnson and his impact. "Harry is one of the most important teachers at Chicago, but he's not considered 'Chicago School,' which is actually sort of a problem for the history of ideas. He's not noted for free market advocacy," Levy said. "Harry helped make the distinction between Keynes and Keynesians. He would combat myths wherever he saw them. From my point of view, that's his greatest contribution."

A conference on "The Legacy of Chicago Economics" held at the University of Chicago in 2015 made it clear that the common perception of the "so-called Chicago School" has changed over time. At its origins in the 1930s, economics at the University of Chicago was not focused on promoting a single point of view or ideology, but rather about "finding an approach to studying economics." The gifts that make the archives of George Stigler and Harry G. Johnson part of the Library's collections have the potential to change future researchers' understandings of what the "Chicago School" was and how the University of Chicago—in the broadest sense—influences the future of economics.

Chicago in 1959, holding the Charles F. Grey Distinguished Service Professorship in the economics department from 1969 until his death in 1977. He was extraordinarily prolific, writing 19 books and 500 scholarly papers and editing 24 volumes before his early death due to a stroke at age 53.

Focusing primarily on international economics and economic theory, he played a leading role in the development of the Heckscher-Ohlin model of international trade.



Harry G. Johnson

He was known for articulating the connections between the ideas of major postwar economic innovators and, according to biographer D. E. Moggridge, defined the vital issues that "set the profession's agenda for a generation." An influential editor of the *Review of Economic Studies*, the *Journal of Political Economy*, the *Manchester School*,

and *Economica*, Johnson was considered so important to the field that Nobel laureate James Tobin called the third quarter of the 20th century "the age of Johnson."

Professor Johnson's papers were donated to the University of Chicago Library by his children, **Karen Johnson and Ragnar Johnson**. The 100 linear feet of materials include research and teaching papers, correspondence, and photographs. An additional gift, from **David Levy, AM'70, PhD'79**, will support the in-depth work of organizing the papers into an archival collection that will be ready for research. Additionally, an online finding aid, or guide, to the organized papers will provide a clear understanding of the contents of the collection. "The power of the University Archives can't be fully appreciated without finding aids," said David Levy, a professor at George Mason University specializing in economics and the history of economic thought.

Professor Levy recalls his UChicago



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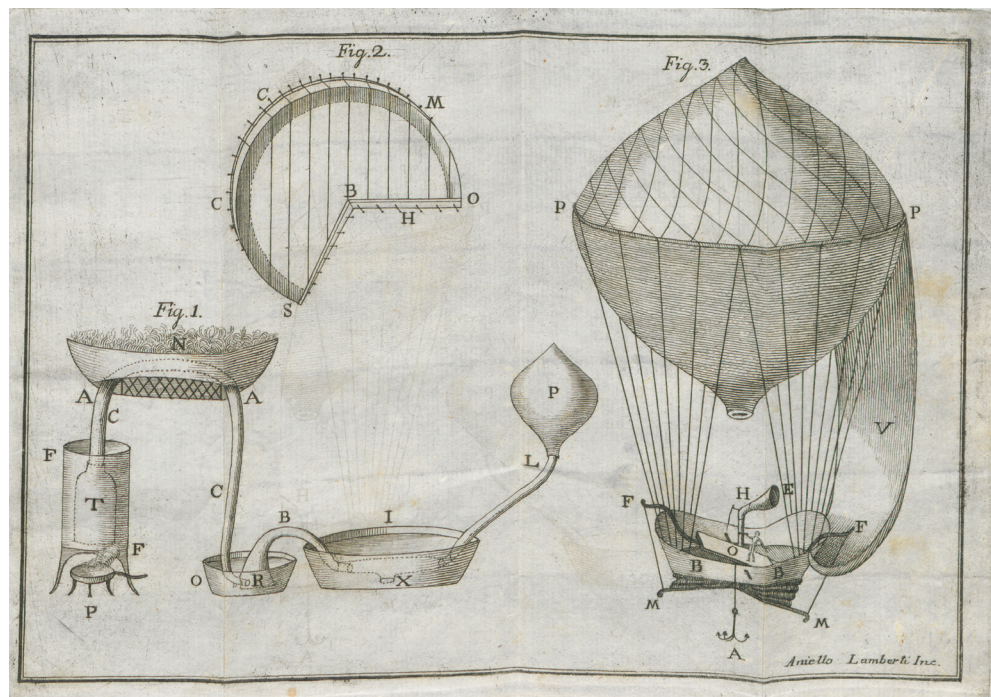
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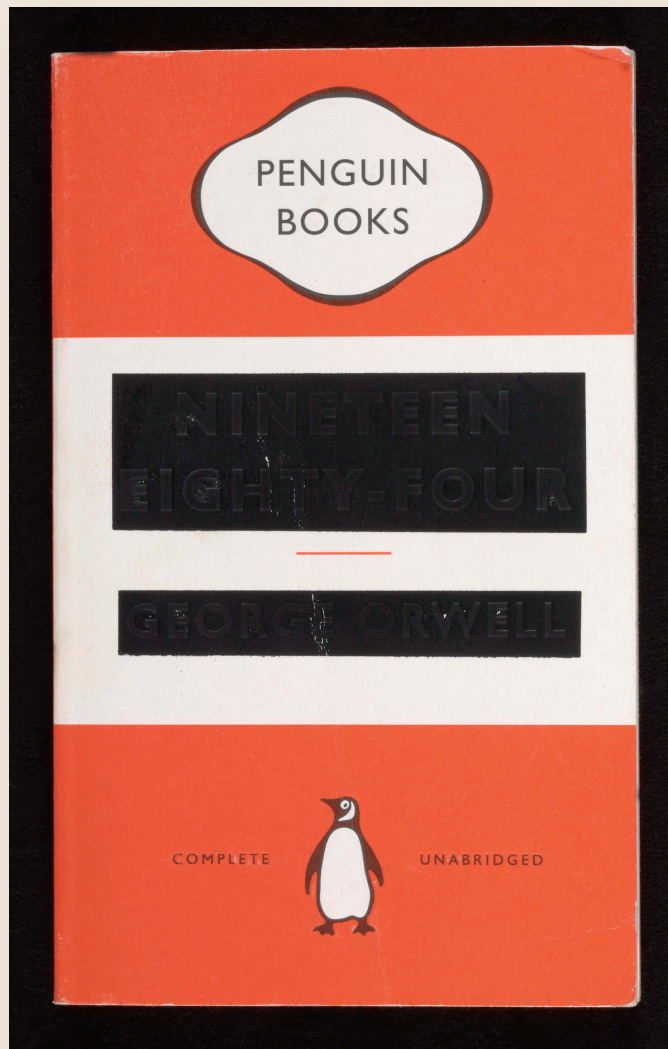
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