

## THU-MAI LEWIS

123 West Franklin St., Ste 600B, CB# 1224

University of North Carolina at Chapel Hill

Chapel Hill, NC 27599-1224

[thumai@email.unc.edu](mailto:thumai@email.unc.edu)



## EDUCATION

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| 2023 | <b>Ph.D., Information and Library Science</b><br>Dissertation: <i>From Policy to Practice: How Journal-based Data Policies Encourage Scientists' Adoption of Reproducible Research Practices</i><br>University of North Carolina at Chapel Hill |
| 2012 | <b>M.S., Information Science</b>   Concentration in Archives and Records Management<br>University of North Carolina at Chapel Hill  |
| 2007 | <b>M.A., Art History</b><br>University of North Carolina at Chapel Hill   |
| 2004 | <b>B.A., Art History</b><br>University of North Carolina at Chapel Hill   |

## EMPLOYMENT

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| 2023 - present | <b>Assistant Director of Research Data Stewardship</b><br>Research Data Management Core<br>University of North Carolina at Chapel Hill           |
| 2015 - 2023    | <b>Assistant Director for Archives</b>   |
| 2012 - 2015    | <b>Research Data Archivist</b>   |
| 2010 - 2012    | <b>Graduate Research Assistant for Data Archives</b>   |
| 2007 - 2010    | <b>Survey Research Project Coordinator</b><br>H. W. Odum Institute for Research in Social Science<br>University of North Carolina at Chapel Hill |
| 2003 - 2006    | <b>Survey Research Call Center Supervisor</b>  |
| 2002 - 2003    | <b>Survey Research Interviewer</b><br>Carolina Survey Research Laboratory<br>University of North Carolina at Chapel Hill                         |
| 1996 - 2002    | <b>Secure Communications/Computer Systems Technician (Staff Sergeant)</b><br>United States Air Force   Air National Guard                        |

## TEACHING ACTIVITIES

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### COURSES

- Spring 2016      **INLS 690-242: Data Sharing Among Scientists**  
Graduate-level course (1.5 credit hours)
- Spring 2014      **INLS 756: Data Curation and Management**  
Graduate-level course teaching practicum (3 credit hours)  
Instructor: Dr. Helen Tibbo
- 2006 - 2007      **University of North Carolina Writing Center**  
Teaching Assistant (Writing Tutor)
- Fall 2006        **ARTH 453: Africa in the American Imagination**  
Undergraduate-level course Graduate Research Consultant (3 credit hours)  
Instructor: Dr. Carol Magee

### SHORT COURSES AND WORKSHOPS

- 2021            **How Data Professionals Can Help Make Science a Tool for Social Change**  
Research Data and Preservation (RDAP) Association workshop
- 2021            **Curating for Reproducibility**  
CURE-TIER workshop
- 2016, 2017, 2018   **Data Sharing, Description, and Reuse**  
Data Science and Visualization Institute for Librarians (DSVIL) workshop
- 2018            **Engaging Researchers in Data Management by Focusing on Reproducibility of Results**  
FORCE 2018 pre-conference workshop
- 2018            **Curating for Reproducibility: Producing High Quality Data and Code for Transparent and Reproducible Research**  
IDCC pre-conference workshop
- 2015, 2016, 2017   **Open(ing) Data: Considerations in Data Sharing and Reuse**  
Data Matters™ short course
- 2015, 2016, 2017   **Data Curation: Managing Data throughout the Research Lifecycle**  
Data Matters™ short course
- 2017            **Curating for Reproducibility: Why and How to Review Data and Code**  
IASSIST pre-conference workshop

## SERVICE ACTIVITIES

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2018 - present	<b>Roper Center for Public Opinion Research Archival Advisory Committee</b> Member
2017 - present	<b>Qualitative Data Repository Technical Advisory Board</b> Member
2016 - present	<b>Curating for Reproducibility (CURE) Consortium</b> Founding Member
2012 - present	<b>Inter-university Consortium for Political and Social Research (ICPSR)</b> Official Representative
2019	<b>Harvard Data Science Review</b> Peer Reviewer
2017	<b>Scientific Data Journal</b> Peer Reviewer
2014, 2015	<b>iPRES Conference Program Committee</b> Peer Reviewer
2014 - 2015	<b>School of Information and Library Science Diversity Committee</b> University of North Carolina at Chapel Hill Graduate Student Representative
2011 - 2012	<b>Provost's Task Force on the Stewardship of Research Data</b> University of North Carolina at Chapel Hill Graduate Research Assistant

## PUBLICATIONS

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### ARTICLES

Peer, L., Biniossek, C., Betz, D., & **Christian, T.** (2022). Reproducible research publication workflow: A canonical workflow framework and FAIR digital object approach to quality research output. *Data Intelligence*, 4(2), 306–319. [https://doi.org/10.1162/dint\\_a\\_00133](https://doi.org/10.1162/dint_a_00133)

**Christian, T.**, Gooch, A., Vision, T., & Hull, E. (2020). Journal data policies: Exploring how the understanding of editors and authors corresponds to the policies themselves. *PLOS ONE*, 15(3), e0230281. <https://doi.org/10.1371/journal.pone.0230281>

**Christian, T.**, Lafferty-Hess, S., Jacoby, W., & Carsey, T. (2018). Operationalizing the replication standard: A case study of the data curation and verification workflow for scholarly journals. *International Journal of Data Curation*, 13(1). <https://doi.org/10.2218/ijdc.v13i1.555>

Curiel, J., Sanders, A., **Christian, T.**, Lafferty-Hess, S., Carsey, T., Lampiris, L., & Slade, G. (2018). Fluoridation advocacy in referenda where media coverage is balanced yet biased. *The Journal of the American Dental Association*, 149(4), 273-280.e3. <https://doi.org/10.1016/j.adaj.2017.10.016>

Lafferty-Hess, S., & **Christian, T.** (2016). More data, less process? The applicability of MPLP to research data. *IASSIST Quarterly*, 40(4), 6-13. [http://www.iassistdata.org/sites/default/files/vol40-4\\_hess.pdf](http://www.iassistdata.org/sites/default/files/vol40-4_hess.pdf)

## BOOK CHAPTERS

Ahalt, S., Aikat, J., Bedard, Dan, Burchinal, M., Carsey, T., **Christian, T.**, Crabtree, J., Dole, N., Lander, H., Sweeney, L., & Whitton, M. (2016). VISR: The virtual institute for social research. In P. Bantin (Ed.), *Building trustworthy digital repositories: Theory and implementation* (pp. 292–306). Rowman & Littlefield.

## CONFERENCE PROCEEDINGS

**Christian, T.**, & Lafferty-Hess, S. (2015). Achieving transparency and replicability: A data curation, verification, and publication workflow. In *Proceedings of the 12th International Conference on Preservation of Digital Objects*. Chapel Hill, NC. [https://phaidra.univie.ac.at/detail\\_object/o:429580](https://phaidra.univie.ac.at/detail_object/o:429580)

Tibbo, H., & **Christian, T.** (2015). Targeting audiences among the masses: A data curation MOOC for researchers & information professionals. In *Proceedings of the 12th International Conference on Preservation of Digital Objects*. Chapel Hill, NC. [https://phaidra.univie.ac.at/detail\\_object/o:429607](https://phaidra.univie.ac.at/detail_object/o:429607)

Tibbo, H., & **Christian, T.** (2014). The CRADLE Project: Networked instruction for research data curation education. In *Proceedings of the 11th International Conference on Preservation of Digital Objects*. Melbourne, Australia. <http://ipres2014.org/sites/default/files/upload/iPres-Proceedings-v006.pdf>

**Christian, T.**, Crabtree, J., McGovern, N., & Altman, M. (2011). Overview of SafeArchive: An open-source system for automatic policy-based collaborative archival replication. In *Proceedings of the 8th International Conference on Preservation of Digital Objects*. Singapore: ACM Press. [https://phaidra.univie.ac.at/detail\\_object/o:294264](https://phaidra.univie.ac.at/detail_object/o:294264)

## PRESENTATIONS

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### TALKS

Arguillas, F., **Christian, T.**, & Peer, L. (2021). *Curation, trust, and impact: Making social science research transparent and reproducible*. Talk presented at the 16th International Data Curation Conference (IDCC), Edinburgh, Scotland (virtual).

Arguillas, F., **Christian, T.**, & Peer, L. (2020). *CURE-FAIR working group and Reproducible Health Data Services working group*. Joint session presented at the 15th Research Data Alliance (RDA) plenary, Sydney, Australia.

Arguillas, F., **Christian, T.**, & Peer, L. (2019). *Curating for CURE and reproducible data and code*. Birds of a feather talk presented at the 14th Research Data Alliance (RDA) plenary, Helsinki, Finland.

**Christian, T.** (2019). *Skilling up even more to do data for reproducibility*. Talk presented at the 45th IASSIST Annual Conference, Sydney, Australia.

**Christian, T.** (2018). *The Confirmable Reproducible Research (CoRe2) Environment: Linking tools to promote computational reproducibility*. Invited talk presented for the Data Preservation Alliance for the Social Sciences (Data-PASS) workshop at the 114th American Political Science Association Annual Meeting, Boston, MA.

**Christian, T.,** & Gooch, M. (2018). *Data policy implementation: Practices and perspectives from the scholarly publishing community*. Talk presented at the 44th IASSIST Annual Conference, Montréal, Canada.

Gooch, M., & **Christian, T.** (2018). *The upside down of data: Honest community engagement*. Pecha kucha presented at the 44th IASSIST Annual Conference, Montréal, Canada.

Anderson, S., & **Christian, T.** (2018). *Realizing research reproducibility before and after the archive*. Panel talk presented at the 2018 Research Data Access and Preservation Summit, Chicago, IL.

**Christian, T.** (2017). *Adapting data verification workflows to accommodate restricted replication data*. Invited talk presented for the Data Preservation Alliance for the Social Sciences (Data-PASS) workshop at the 113th American Political Science Association Annual Meeting, San Francisco, CA.

**Christian, T.** (2017). *Integrating data verification into the manuscript publication workflow*. Invited talk presented for the Data Preservation Alliance for the Social Sciences (Data-PASS) workshop at the 3rd Annual Dataverse Community Meeting, Boston, MA.

**Christian, T.,** Arguillas, F., & Peer, L. (2016). *Data curation for data quality and reproducibility*. Panel presentation at the 42nd IASSIST Annual Conference, Bergen, Norway.

**Christian, T.** (2015). *Metadata and data curation services*. Invited talk presented at the 1st Annual Dataverse Community Meeting, Boston, MA.

Sexton, J., Henley, A, & **Christian, T.** (2015). *The Research Hub @ Davis Library: Reflections on our first semester*. Talk presented at the 2015 LAUNC-CH Conference, Chapel Hill, NC.

## **POSTERS**

**Christian, T.,** Peer, L., & Arguillas, F. (2018). *Education for (a) CURE: Developing a prescription for training in data curation for reproducibility*. Poster presented at the 44th IASSIST Annual Conference, Montréal, Canada.

Peer, L., **Christian, T.,** & Arguillas, F. (2017). *The Curating for Reproducibility (CURE) Consortium*. Poster presented at the 43rd IASSIST Annual Conference, Lawrence, KS.

**Christian, T.,** & Lafferty-Hess, S. (2016). *Data curation and archiving services powered by Dataverse*. Poster presented at the 2nd Annual Dataverse Community Meeting, Boston, MA.

Lafferty-Hess, S., & **Christian, T.** (2015). *Implementing a data citation workflow for the State Politics & Policy Quarterly journal*. Poster presented at the 41<sup>st</sup> IASSIST Annual Conference, Minneapolis, MN.

Tibbo, H., **Christian, T.**, Crabtree, J., Hayslett, M., Hayes, B., Mizzy, D., Mihas, P., Gooch, A., & Lafferty-Hess, S. (2014). *CRADLE: Curating Research Assets Using Lifecycle Education*. Poster presented at the 9<sup>th</sup> International Digital Curation Conference, San Francisco, CA.

**Christian, T.**, Crabtree, J., Lafferty-Hess, S., Bucknall, T., & Kellam, L. (2013). *Scaling up to do data: Managing cross-disciplinary inter-institutional data in the Dataverse Network*. Poster presented at the 39th IASSIST Annual Conference, Cologne, Germany.

Crabtree, J., Altman, M., **Christian, T.**, & McGovern, N. (2013). *Why preservation networks need collection auditing and how to do it*. Poster presented at the 8th International Digital Curation Conference, Amsterdam.

Altman, M., **Christian, T.**, Crabtree, J., & McGovern, N. (2011). *Overview of the SafeArchive System*. Poster presented at the 7th International Digital Curation Conference, Bristol, UK.

Altman, M., **Christian, T.**, Crabtree, J., & McGovern, N. (2011). *SafeArchive: An open-source system for policy-based collaborative archival replication*. Poster presented at the 8th International Conference on Preservation of Digital Objects, Singapore.

Carrier, R., **Christian, T.**, Crane, E., & Thompson, C. (2011). *A script for research data archiving: Improving accuracy and efficiency in the Dataverse Network*. Poster presented at the 71st Annual Meeting of the Society of American Archivists, Chicago, IL.

## GRANTS RECEIVED

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2019 - 2021	<b>Implementing a Data Curation for Reproducibility (Data CuRe) Training Program (subaward)</b> \$69,250   Institute of Museum and Library Services #RE-36-19-0081-19 Principal Investigator
2019 - 2024	<b>The PROMISE Study: Peer Group Research on Mentoring Underrepresented Scientists</b> \$416,671   University of North Carolina at Chapel Hill Office of the Provost Project Data Manager
2018 - 2021	<b>Confirmable Reproducible Research (CoRe2) Environment: Linking Tools to Promote Computational Reproducibility</b> \$501,416   Alfred P. Sloan Foundation #G-2018-11121 Co-principal Investigator
2017 - 2019	<b>Data Curation for Reproducibility (Data CuRe) Training Program Planning</b> \$49,820   Institute of Museum and Library Services #RE-87-17-0074-17 Principal Investigator
2017 - 2018	<b>Increasing the Value of Open Access through Open Data Publication Policies</b> \$184,450   Robert Wood Johnson Foundation #OAR 74419 Principal Investigator

- 2014 - 2018      **The Institutional Foundations of Judicial Independence**  
\$128,096 | National Science Foundation #1424013  
Co-principal Investigator
- 2013 - 2016      **CRADLE: Curating Research Assets and Data Using Lifecycle Education**  
\$499,002 | Institute of Museum and Library Services #RE-06-13-0052-13  
Co-principal Investigator

## AWARDS AND HONORS

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- 2018              **Reproducibility Travel Grant Award**  
\$500 | Code Ocean
- 2016              **Best Conference Paper Award**  
“More Data, Less Process? The Applicability of MPLP to Research Data”  
42nd IASSIST Annual Conference
- 2013              **Beta Phi Mu** Epsilon Chapter  
International Library and Information Studies Honor Society
- 2013              **Poster Presentation Award – Honorable Mention**  
“Why Preservation Networks Need Collection Auditing and How to Do It”  
Curate Thyself PhD Symposium
- 2012              **Professor Lester Asheim Fellowship**  
School of Information & Library Science, University of North Carolina at Chapel Hill
- 2005              **North Carolina Minority Presence Fellowship**  
The Graduate School, University of North Carolina at Chapel Hill