Stephen Appel

UW-Milwaukee Golda Meir Library E370 | (414)-251-6768

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Education

Master of Science - Geography   2015

University of Wisconsin-Milwaukee, Milwaukee, WI

Thesis: *Public Geospatial Data in Wisconsin: Information Access, Data Sharing, and the University*

Committee: Dr. Rina Ghose (Advisor), Dr. Zengwang Xu, Marcy Bidney

Graduate Certificate of Geographic Information Systems   2013

University of Wisconsin-Milwaukee, Milwaukee, WI

Bachelor of Science - Conservation and Environmental Science, *cum laude*   2012

University of Wisconsin-Milwaukee, Milwaukee, WI

Experience

Geospatial Information Librarian   September 2016 - Present

Librarian II – Research, Learning, and User Support (Indefinite Appointment)

American Geographical Society Library

University of Wisconsin-Milwaukee Libraries

- Achieved Indefinite Status July 2023
- Curate and maintain the digital spatial data clearinghouse including working towards UWM Libraries goals of digital preservation
- Provide reference and research consultations related to geospatial information
- Supervise GIS student internship program
- Provide digital spatial data instruction in the form of class visits, presentations, and workshops
- Collaborate with professionals at UWM Libraries, other faculty and staff at UWM, faculty and staff at other UW institutions, and members of the community for various projects and initiatives

GIS Reference Consultant and Tool Developer September 2015 – December 2015

American Geographical Society Library
University of Wisconsin-Milwaukee Libraries

- Developed software tools and web mapping applications to aid users in searching both digital and print materials in the collection
- Assisted in the training of GIS student interns

GIS Student Assistant January 2013 - August, 2015

American Geographical Society Library
University of Wisconsin-Milwaukee Libraries

- Provided reference related to geospatial information
- Facilitated GIS data requests pursuant to various license agreements and user needs
- Archival quality digitization and duplication of physical materials
- Assisted the Geospatial Information Specialist/GIS Librarian
- Assumed various duties of Geospatial Information Specialist during vacancy of that position

Graduate Teaching Assistant August 2013 - June 2015

UW-Milwaukee Department of Geography
University of Wisconsin-Milwaukee

- Course: Geography 215 - Intro to Geographic Information Systems
- Under the supervision of Dr. Rina Ghose
- Responsible for course management, grading, and student assistance
- Assisted in developing a traditional classroom course into an effective online model
- Facilitated two online GIS laboratories including two semesters as Lead Teaching Assistant
- Maintained course site on D2L

Co-Chair, Special Elections Committee July 2014 – May 2015

Student Association of Milwaukee

- Voting member of Student Association of Milwaukee Board of Trustees
- Drafted new Independent Election Commission bylaws and planned for student elections
- Collaborated with staff and faculty government for participation in elections oversight

Supplemental Instruction Leader September 2012 - December 2013

Panther Academic Support Services
University of Wisconsin-Milwaukee

- Worked with instructor for *Plants in Today's World* (BIOSCI 104) to develop supplemental instruction services for undergraduate students
- Facilitated small and large group review sessions, tutoring, and online interactive reviews
- Received training in academic coaching, online tutoring using interactive software, time and stress management skills, dealing with distressed or disruptive students

Tutor   February 2010 - December 2013
Panther Academic Support Services
University of Wisconsin-Milwaukee

- Tutored undergraduate courses in Chemistry, Geography, and Geosciences
- Facilitated small and large group review sessions, tutoring, and online interactive reviews

Honors and Awards

GIS Librarians for Open Workflows (GLOW) Forum 2 Participant   2023
Institute of Museum and Library Services/University of Chicago/UCGIS

GIS Librarians for Open Workflows (GLOW) Forum 1 Participant   2022
Institute of Museum and Library Services/University of Chicago/UCGIS

NACIS Annual Meeting 2022 Travel Grant   2022
North American Cartographic Information Society

UWM Academic Staff Individual Professional Development Award   2022
For: ICA DACH 2022 - Cluj-Napoca, Romania
UWM Office of Academic Affairs/Academic Staff Awards Committee
University of Wisconsin-Milwaukee

UWM Academic Staff Individual Professional Development Award   2018
For: Geo4LibCamp 2019 at Stanford University, Palo Alto, CA
UWM Office of Academic Affairs/Academic Staff Awards Committee
University of Wisconsin-Milwaukee

Janet and Carl Moebius Outstanding Achievement Award   2014
Library Student Employee of the Year
Friends of Golda Meir Library
University of Wisconsin-Milwaukee

Mary Jo Read Fellowship   2014-2015
Department of Geography
University of Wisconsin-Milwaukee

Chancellors Graduate Student Award Scholarship   2013-2014
UW-Milwaukee Graduate School

Letters and Science Dean's Honors list   Fall 2009, Fall 2011, Spring 2012
University of Wisconsin-Milwaukee

Outstanding Tutorial Service   2010
Panther Academic Support Services
University of Wisconsin-Milwaukee

Grant Funded Activities

Making Open-Source Georeferencing Technology Collections-Ready   2023-Present
With the Allmaps Platform
FAIN: HAA-293491-23
Norman B. Leventhal Map Center, Inc. (Boston, MA 02116-2813)
Ian Spangler (Project Director)

Developing a Digital Platform for the Mapping Racism and   2023-Present
Resistance in Milwaukee County Project
FAIN: HAA-296399-24
University of Wisconsin, Milwaukee (Milwaukee, WI 53211-3153)
Anne Bonds (Project Director)
Derek G. Handley (Co Project Director)

Publications

Gábor Timár, Peter K. Musyimi, and **Stephen Appel**. "Projection analysis and georeference of the 1:2M Africa map by Régnauld de Lannoy de Bissy (1891-1902)" *e-Perimetron*. (2023)

Appel, Stephen. "OpenIndexMaps: A New Iteration of Collaborative Digital Index Mapping." *e-Perimetron*, *17*(4) (2022)

Appel, Stephen "Development of geospatial information literacy instruction practices: frameworks, literacies, and competencies." *Journal of Map and Geography Libraries* (2020)

Eugenia Afinoguénova, **Stephen Appel**, Andrea Ballard, and Mackenzi McGowan. "Letters from Spain in a space-time box: historical GIS with timestamped itineraries for understanding the chronotopes of 19th-century travel writing." *International Journal of Humanities and Arts Computing* (2020)

Appel, Stephen. Review of "New Lines: Critical GIS and the Trouble of the Map". *Cartographic Perspectives*. (2018)

Appel, Stephen, and Marcy Bidney. "Geodex 2.0: saving a legacy map series cartobibliography." *e-Perimetron* (2016)

Rina Ghose and **Stephen Appel**. "Facilitating PPGIS through University Libraries." *The Cartographic Journal* (2016)

Appel, Stephen. "Public Geospatial Data in Wisconsin: Information Access, Data Sharing, and the University." Thesis. (2015)

Presentations, Talks & Workshops

Text Analysis in Python (Carpentries Incubator Workshop)   Forthcoming 2025
With K. Holten, S. Surach, A. Hanlon
UWM Digital Humanities Lab
Virtual

Introduction to Allmaps   November 2024
With I. Spangler
Allmaps Convening 2024, Leventhal Map and Education Center, Boston, MA
Virtual

Barn Raising AGSL GeoDiscovery: UW-Milwaukee's New   September 2024

GeoBlacklight Portal
WAML Annual Conference, University of New Mexico, Albuquerque, NM

Open-Source Georeferencing and Curating with Allmaps   May 2024
Geo4LibCamp 2024, University of Minnesota, Minneapolis, MN

Making Open-Source Georeferencing Technology Collections-Ready   November 2023

with the Allmaps Platform
With I. Spangler
2023 BTAA GIS Conference
Virtual

OpenRefine (Workshop)   November 2023
With M. A. Warner
Minitex Library Carpentry Series Fall 2023
Virtual

OpenIndexMaps (Workshop)   August 2023
With T. Brittnacher
WAML Annual Conference, University of British Columbia, Vancouver, BC

Using GitHub to Build Websites (Workshop)   March 2023
UWM Digital Humanities Lab
Virtual

Using GitHub to Build Websites (Workshop)   November 2022
UWM Digital Humanities Lab
Milwaukee, WI/Virtual Hybrid

Library Carpentry: Introduction to Git (Workshop)   November 2022
With J. Brooks-Kiefer
Minitex Library Carpentry Series Fall 2022
Virtual

OpenIndexMaps: The Next Generation of Collaborative Digital Index Maps   October 2022
With E. Thornberry
North American Cartographic Information Society Annual Meeting
Minneapolis, MN

OpenIndexMaps: A New Iteration of Collaborative Digital Index Mapping September 2022
ICA Commission on Cartographic Heritage into the Digital 16th conference on
Digital Approaches to Cartographic Heritage
Universitatea Babeș-Bolyai, Cluj-Napoca, Romania

The Carpentries: Building New Services for a 21st century library   June 2022
With A. Hanlon
Council of University of Wisconsin Libraries Conference

Software Carpentry: Version Control with Git (Workshop)   April 2022
UWM Digital Humanities Lab
Milwaukee, WI

Census Data and Tools for GIS (Workshop)   April 2022
GIS Day at UW-Milwaukee 2022
Virtual

3D Spanish Travelers   February 2022
With E. Afinoguénova, C. Larkee, A. Nelson
UWM Digital Humanities Lab
Virtual

Computational Humanities: GIS and Mapping   February 2022
UWM Digital Humanities Lab
Virtual

Geospatial Data Carpentry (Workshop)

With C. Michaud, S. Graves, C. Fritag, M. Kamenetsky, S. Stevens   July 2021
UW-Madison- Data Science Hub and Nelson Institute for Environmental Science
Virtual

Probationary or On Probation? Early-career advancement and Probationary
Appointments (Moderator)   June 2021
Council of University of Wisconsin Libraries 2021 Conference
Virtual

Census Data and Tools for GIS (Workshop)   April 2021
GIS Day at UW-Milwaukee 2021
Virtual

Geospatial Data Carpentry (Workshop)

With C. Michaud, S. Graves, C. Fritag, M. Kamenetsky, S. Stevens   July 2020
UW-Madison- Data Science Hub and Nelson Institute for Environmental Science
Virtual

Letters from Spain in a space-time box: historical GIS with timestamped itineraries for
understanding the chronotopes of 19th-century travel writing   June 2019
UCGIS 2019 Symposium: The Geospatial Humanities
Washington, DC

Praxis Panel: Librarians Putting Theory to Work *(Moderator)*   April 2019
UWM Libraries Diversity Committee and UWM ALA Student Chapter
UWM Digital Humanities Lab
Milwaukee, WI

Mapping your Neighborhood   April 2019
5-Points Neighborhood (Milwaukee) Association
Milwaukee, WI

Census Data and Tools for GIS (Workshop)   November 2018
GIS Day at UW-Milwaukee 2017
Milwaukee, WI

Collaborative Geographic Indexing of Map Series: Geodex 2.0 October 2018

NACIS Annual Meeting 2018
Norfolk, VA

Working on it: High Performance Computing and GIS (Workshop) February 2018

With D. Siercks, W. Xu
UW-Milwaukee Libraries Digital Humanities Lab
Milwaukee, WI

Census Data and Tools for GIS (Workshop) November 2017

GIS Day at UW-Milwaukee 2017
Milwaukee, WI

Visualizing United States Census Data (Workshop) April 2017

UW-Milwaukee Libraries Digital Humanities Lab
Milwaukee, WI

Geospatial Data for Social Sciences and the Humanities (Workshop) April 2017

UW-Milwaukee Libraries Digital Humanities Lab
Milwaukee, WI

Geospatial Data for Earth and Environmental Sciences (Workshop) March 2017

UW-Milwaukee Libraries Digital Humanities Lab
Milwaukee, WI

Census Data and Tools for GIS (Workshop) November 2016

GIS Day at UW-Milwaukee 2016
Milwaukee, WI

Introduction to Milwaukee Data (Workshop) September 2016

with K. Briney, L. Kopecky, A. Nye, N. Humpal
UW-Milwaukee Libraries Digital Humanities Lab
Milwaukee, WI

Census Data and Tools for GIS (Workshop) November 2015

GIS Day at UW-Milwaukee 2015
Milwaukee, WI

Information Justice and Geospatial Data in Wisconsin   April 2015

2015 Annual Meeting of the Association of American Geographers
Chicago, IL

Public Geospatial Data in Wisconsin   April 2015

UWM Department of Geography Colloquium
Milwaukee, WI

Open Geoportal and UW Libraries: Making Wisconsin Data   February 2015
Available to Students, Researchers, and Future Generations

with E. Bettinger, J. Martindale, A. Wortly, and M. Goettl

2015 Wisconsin Land Information Association Annual Conference
Green Bay, WI

Interspecies Relationships in New Zealand Honeydew Beech Forests   November 2013

_2013_ Riveredge Nature Center Student Research Symposium

Newberg, WI

Reviewer

Oxford Bibliographies	February 2025
Journal of Map and Geography Libraries	November 2023
Journal of Map and Geography Libraries	February 2023
Journal of Map and Geography Libraries	June 2022
Journal of Map and Geography Libraries	February 2021
UCGIS GIS&T Body of Knowledge	November 2020
Journal of Map and Geography Libraries	May 2019

Service

Geo4LibCamp 2025 Planning Committee	2025
Office 365 Governance Committee (Liaison to ITPC)	2022-Present
Information Technology Policy Committee	2022-Present

Total Title and Compensation Review Committee (served on 3 reviews)	2022
Data Carpentry Geospatial Curriculum Advisory Committee (Co-Chair)	2022-Present
Non-Instructional Academic Staff Subcommittee	2021-Present
AGSL Public Services Librarian Search and Screen Committee	2021
UWM GIS Day Planning Committee	2015 - Present
Chair	2022
Student Competition Chair	2021
GeoBlacklight Metadata Schema Workgroup	2021
UWM Libraries Staff Association Committee	2016-2021
Chair	2020-2021
OpenIndexMaps Development Group	2019-Present
UWM GIS Council	2016-Present
Treasurer	2021-Present
UWM Libraries Collections as Data Community of Practice	2021-Present
UWM Libraries Preservica Implementation Taskforce	2019-2020
Advisor to UWM GIS Club	2019-Present
Advisor to Alpha Mu Chapter of Gamma Theta Upsilon Honor Society	2019-Present
UWM Libraries Digital Preservation Community of Practice	2016 - Present
UWM Libraries Digital Infrastructure Strategic Planning Group	2016 - 2017
UWM Libraries Platform Review Taskforce	2016 – 2017

Professional Memberships

Certified Instructor with The Carpentries	2020-Present
Western Association of Map Libraries	2022-Present
North American Cartographic Information Society	2017-Present
American Association of Geographers	2013 - 2020
Phi Kappa Phi National Honor Society	2014 - 2017
American Geographical Society	2014 - 2015
Wisconsin Land Information Association	2015 – 2015

Selected Projects

AGSL GeoDiscovery is UWM Libraries instance of GeoBlacklight, a community developed Ruby on Rails application for Geospatial Information Discovery. We assembled a team at UWM and hired a front-end developer to stand up the software. Since then, I have taken primary responsibility for maintaining and updating the software.

Spanish Travelers Project at Marquette University is a project to transcribe and map 19th century travel literature from primarily women travelers in Spain. I supervised and advised GIS work and published and presented our work in various places.

OpenIndexMaps is a collaborative project of the Geo4Lib community seeking to standardize digital index mapping at libraries and beyond using open source GeoJSON formats and a community-developed standard.

Geodex 2.0: Created an ArcMap add-in using ArcObjects SDK for .NET and designed an SDE Geodatabase for maintenance and preservation of Geodex (Geographic Index for Map Series) records and web hosting for user-facing discovery application.

***Map of Civil War Camps in Milwaukee**, Wisconsin* Milwaukee County Historical Society, Milwaukee, WI (October 2014)

Independent Study mapping plant communities and plant survey results in the Cedarburg Bog State Wildlife Area under the instruction of Dr. Glen Fredlund, UW-Milwaukee and Dr. Jim Reinartz, UW-Milwaukee Field Station.

Independent Study Measuring basin depth of wetland using probe and mapping using GPS and GIS at Cedarburg Bog State Wildlife Area under the instruction of Dr. Jim Reinartz, UW-Milwaukee Field Station.

Independent Study using digital imaging and statistical software to compare physiological differences of lake trout variations under instruction of Dr. Frederick Goetz, UW-Milwaukee school of Freshwater Sciences.

SELECTED COURSEWORK

Contemporary Geographic Approaches (GEOG 870)

Spatial Analysis (GEOG 547)

Intermediate Geographic Information Science (GEOG 625)

Watershed Analysis and Modelling (GEOG 515)

Advanced Remote Sensing (GEOG 703)

Using Urban GIS for planning (URB PLAN 792)

Applied Projects in Urban GIS (URB PLAN 793)

Geographic Information Science (GEOG 525)

GIS and Society Seminar (GEOG 734)

Chemical Hydrogeology (GEO SCI 464)

Conservation and Environmental Science Senior Seminar (CES 490)

Remote Sensing-Environment and Land Use (GEOG 403)

Principles of Natural Resource Management (CES 471)

Ecology and Physiology of Plants in Winter (BIO SCI 562)

Approaches to a Sustainable Future (CES 499)

Intro to Geographic Information Science (GEOG 215)

General Climatology (GEOG 310)

Biogeography (GEOG 340)

Ecology and the Environment (BIOL 222)*

Hydrology and Climate (GEOG 220)*

New Zealand Politics (POLS 111)*

Conservation of Natural Resources (GEOG 350)

Environmental Economics (ECON 328)

Nature and Culture in the Information Age (JMC 225)

General Chemistry (102-104) and Biology (150-152)

Victoria University of Wellington, Wellington, New Zealand