

Deutsche Gesellschaft für Kartographie e.V.
Gesellschaft für Kartographie und Geomatik
Die Vizepräsidentin



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International Cartographic Association
Executive Committee

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Nomination

I'm writing to show the support of the German Cartographic Society (DGfK) for Prof. Dr. Francis Harvey in nomination as Chair of the ICA commission on Geospatial Semantics. Please find enclosed the indication from Prof. Dr. Francis Harvey that he is willing to serve as Commission Chair and his CV as well the Terms of Reference for the next four years.

Dr. Anja Hopfstock
Vice President and National Delegate to ICA

FRANCIS HARVEY

CURRICULUM VITAE

EDUCATION

- University of Washington, Seattle, Washington, Geography PhD** **1992-1996**
Awarded PhD degree in May 1996, dissertation title, *Geographic Information Integration and GIS Overlay*, Advisor: Nicholas R. Chrisman
- University of Dortmund, Germany, Spatial Planning, Master's of Science (Diplom-Ingenieur)** **1984-1991**
Received Diplom-Ingenieur degree in May 1991, master thesis title (translated from German), *Detection of potential erosion in alpine pastures using a Digital Elevation Model*
- University of Wisconsin, Madison, Wisconsin, Sociology** **1983-1984**
Emphasis on quantitative sociology

ACADEMIC POSITIONS

- Visiting professor, Faculty of History** **4/2021 - now**
University of Warsaw
- Lead researcher, research group "practices and data"** **1/2020 - now**
Leibniz Institute for Regional Geography
- Professor of Visual Communication in Geography** **2/2015 - now**
Leipzig University
- Head of Department, Cartography and Visual Communication in Geography** **1/2015 - 1/2020**
Leibniz Institute for Regional Geography
- Associate Professor** **5/2004 - 6/2015**
University of Minnesota, Department of Geography
- Affiliated Faculty, Center for German and European Studies** **1/2007 - 6/2015**
University of Minnesota, College of Liberal Arts
- Erasmus Mundus Visiting Professor** **4/2011 - 7/2011**
University of Münster, Department of Geography
- Visiting Professor** **1/2009 - 9/2011**
Jagiellonian University, Institute of Geography and Spatial

Management, Krakow, Poland

Senior Lecturer 1/2007 - 12/2007
University of Leicester, Department of Geography

Assistant Professor 7/2001 - 5/2004
University of Minnesota, Department of Geography

Assistant Professor 8/1998 - 6/2001
University of Kentucky, Department of Geography

Lecturer and Researcher 8/1996 - 8/1998
Swiss Institute of Technology Lausanne (EPF-L), Institute of Geomatics

Research Assistant 1/1996 - 6/1996
Comparative study of GIS use in low level radioactive waste siting Projects

Teaching Assistant 9/1993-12/1996
GIS and cartography courses

Teaching Assistant and Tutor 1/1986 - 12/1988
English language Program SPRING, Department of Planning, University of Dortmund, Germany

GRADUATE STUDENTS

Completed Advisees (PhD students with current position):

PhD: 6
Masters: 16

Committee Memberships:

PhD: 15
Masters: 52

SCHOLARSHIP

RESEARCH GRANTS (current)

Polish National Agency for Academic Exchange (NAWA), Places, People and Events: Innovative Spatial Humanities Research to support Interpretation and Explanation. 2021-2024. €412,000 (submitted by the University of Warsaw)

Leibniz Association, Names change, places too. The challenge of developing geodata-based gazetteer research technologies and methods. 2019-2023. €920,000 (with Christian Lotz, Herder Institute)

PUBLICATIONS (ONLY MOST RECENT)

Books (Total of 4)

- Zhou, C., Su, F., Harvey, F., Xu, J (2017) (Eds.) Spatial data handling in big data era. Advances in Geographic Information Science. Springer Verlag, Berlin.
- Harvey, F. (2016) A Primer of GIS. Fundamental geographic and cartographic concepts. Second Edition. Guilford Press, New York City.

Special Issues of Journals Edited: (Total of 5)

- Burns, Ryan, Flacke, Johannes, Ghose, Rina, Harvey, Francis (2022): Public Participation in 2021: New Forms, New Modes, New Questions? *International Journal of Geographic Information*, 11(3).
- Harvey, F. (2019) Bertin@50: Jacques Bertin's Legacy and Continuing Impact for Cartography. Special Issue 46(2) of *Cartography and Geographic Information Science (CaGIS)*.
- Harvey, F., Kwan, M. & Pavlovskaya, M. (2005) Critical GIS. *Cartographica*, 40(4)
- Harvey, F. (2003) US National Report to the International Cartographic Commission. *Cartography and Geographic Information Systems*, 30(2)
- Harvey, F. (2000) Editorial Introduction. Special Issue on Social Construction of GIS. *International Journal of Geographic Information Science*, 14(8), 3.

Peer-Reviewed Articles, Book Chapters, and Proceedings Contributions (Total of 87)

- Beurskens, K., Meyer, F., & Harvey, F. (2022) Qualitative visualisation -- perspectives and potentials for population geography. *Geographica Helvetica*, 77(3), 317-322. doi:10.5194/gh-77-317-2022.
- Moldovan, A., Harvey, F. & Leibert, T. (2021) Wanderungsbewegungen verstehen. Open Source Software für die Kommunalstatistik. *Stadt und Gemeinde digital*, 4, 54-56.
- Moldovan, A., Leibert, T. & Harvey, F. (2021) Eine Wander-Karte für die ganze Bevölkerung: Open- Source-Software zur Auswertung der Kommunalstatistik. *Alternative Kommunal Politik*, 5, 22-23.
- Doroshenko, I. & Harvey, F. (2021) Spatio-Temporal Analysis of Place-Naming Dynamics in Former West Prussia From 1772 to 2020. Abstracts of the International Cartographic Association, 3,
- Harvey, F., & Doroshenko, I. (2020) Evaluating the Use of Gazetteer Data for Locating Former Concentration Camp Subcamps. *GI_Forum 2020*, 8(2), 3-13. DOI: 10.1553/gi-science2020_02_s3
- Harvey, F. (2020). Herbert Bayer's World Geo-Graphic Atlas of 1953: A Modern Atlas, Then and Now. *The Cartographic Journal* 57(3), 273-283. DOI:10.1080/00087041.2020.1824745
- Harvey, F. (2020) Maps and Governance. In A. Kobayashi (Ed.), *Encyclopedia of Human Geography* (pp. 347-352). Amsterdam: Elsevier.
- Harvey, F., & Losang, E. (2019). Bertin's matrix concepts reconsidered: transformations of semantics and semiotics to support geovisualization use. *Cartography and Geographic Information Science*, 46(2), 152-162.
- Harvey, F. (2018). Die fortbestehende Bedeutung von Herbert Bayers World Geo-Graphic Atlas von 1953. *Kartographische Nachrichten*, 4, 202-207.

Invited Presentations (Only most recent)

- Harvey, F. (2022) The Outside-In Globe of MoMA and New Cartographies of Places and Mobilities. University of Wisconsin - Madison, Cartography Laboratory, Colloquium, Madison, Wisconsin.
- Harvey, F. (2020) Proximity or Nearness. University of Münster. 22June.
- Harvey, F. (2018) Die kurzen Beine der Kartographie Rückschau und Standortbestimmung der gegenwärtigen geovisuellen Kommunikation. Gesellschaft für Erdkunde zu Berlin, 10September.
- Harvey, F. (2018) Humangeographie und Digitalisierung, Geographie Werkstatt Österreich 2018, Tainach, Austria, 28June.
- Harvey, F. (2018) Tuple Talk: Maps and Places/Meaning and Memory. Bibliotheca Hertziana, Max-Planck-Institute für Kulturgeschichte, Flavio Biondos Italia Illustrata. Räpresentationen von Raumsprache und Raumdenken in Text und Karten, Rome, Italy, 16May.
- Harvey, F. (2017) Der Atlas als Ausstellung: Spätmodernistisches Konzept für seine Neugestaltung. Hannover, 12December.
- Harvey, F. (2017) The Atlas as Exhibition. Herbert Bayer's 1953 World Geographic Atlas, University College Dublin, School of Business Colloquium, Dublin, Ireland. 14September.
- Harvey, F. (2017) Lernen, Wissen und Grenzobjekte. Für ein ökologisches Verständnis des geographischen Wissens, Hochschulverband für Geographiedidaktik, HGD-Symposium, Jena, 28June.
- Harvey, F. (2017) Herbert Bayers World Geographic Atlas 1953. Der Atlas als Ausstellung, DGfK Sektion Halle-Leipzig, DGfK Sektion Halle-Leipzig Veranstaltung, Leipzig, 12October.
- Harvey, F. (2016) Atlases, cartography and transformations considered in regards to future geovisualizations. NSF Workshop Cultural Analytics, Institute for Pure and Applied Mathematics, University of California, Los Angeles, 16April.
- 100).

Presentations (Only most recent)

- Harvey, F. Kuřma, M. (2022) Learning Cartographic Communication for Digital Humanities. Eurocarto 2022, Vienna, 20September.
- Harvey, F. Kuřma, M. (2022) Changes in old maps as matters of cartographic generalisation (poster), Spatial Humanities, Ghent, 8September.
- Harvey, F. Kuřma, M. (2022) Zooming is (not just) scaling: Considerations of scale in old maps from cartographic perspectives on generalisation, Zoomland Workshop, Luxembourg, 22June.
- Doroshenko, I., Harvey, F., Losang, E. (2022) Visualization and interactivity improving the user experience in a digital meta-gazetteer. Madrid, Spain, 21April.
- Doroshenko, I., Harvey, F. (2021) Spatio-Temporal Analysis of Place-Naming Dynamics in Former West Prussia From 1772 to 2020. International Cartographic Conference 2021, Florence, Italy, 17December.
- Moldovan, A., Leibert, T., Harvey, F. (2021) hin&weg: Stadt-Umland- Wanderungen von Familien visualisieren und analysieren. Statistische Woche, Online, 17September.
- Moldovan, A., Leibert, T., Losang, E., Harvey, F. (2021) hin&weg – Analyse- und Visualisierungstool für städtische und regionale Bewegungsdaten, Urban Digital, Online, 20August.

- Moldovan, Aura and Harvey, F. (2021) hin&weg: Analytical visualisation application for the study of urban and regional demographic change. 5th International Conference Urban e-Planning, Lisbon, Portugal, 7September.
- Harvey, F., Duży, W., Kwiecińska, E. Kuźma, M. (2021) Making better connections in historical research. A knowledge graph ontological extension considering distortions, vagueness and interpretations. Data For History 2021, online, 22June.
- Leibert, T., Losang, E., Turchenko, M., Harvey, F. (2021) „Was vor der Karte kommt“: Klassifizierung – unterschätzte Grundlage für die Visualisierung von Raumbezügen. Frühjahrstagung 2021 des Verbands Deutscher Städtestatistiker, Online, 19April.
- Beurskens, K. Meyer, F., Harvey, F. (2021) Visualisieren qualitativer Daten in der raumbezogenen Kommunikation: Methodische Entwicklungen zwischen Forschung und Anwendungspraxen. Online, 9March

PROFESSIONAL SERVICE

Editorship

8/06 - 8/09 Geography Compass, GIS-Section (co-editor with Libby Wentz)

Editorial Board Participation

11/01 - now International Journal of Geographical Information Science
 6/08 - now Europa Regional
 4/07 - now GeoJournal
 2/12 - now Polish Journal of Geoinformatics (PTIP)
 10/12 - now URISA Journal section editor for social, economic, political and governance issues
 6/19 - now International Journal of Geo-Information
 9/98 - 2017 URISA Journal

International Cartographic Association (ICA) Commission on Geospatial Semantics and Ontology

11/16 - now Vicer-Chair

International Geographical Union (IGU) Geographical Information Science Commission

8/12 - 8/16 Chair (three year term)
 4/09 - 8/16 US representative (commissioner)

Geographic Information System Certification Institute

2/06 - 4/10 Board Member representing UCGIS

University Consortium for Geographic Information Science

6/01 - 6/06 Vice-Chair of the Education Committee

Association of American Geographers

4/09 - 4/13 GIS Specialty Group Vice-Chair and Current Chair
 8/02 - 4/06 Geographic Information Standards Committee Member
 1/01 - 4/01 Nystrom Committee Member

Statement of agreement

Chair of ICA commission Geospatial Ontology and Semantics

Hereby I agree to my nomination as next chair of the ICA commission Planetary Cartography by Dr. Anja Hopfstock (in her capacity as vice president international, DGfK). Furthermore, if my nomination will accepted within the General Assembly in Cape Town 2023, I am willing to serve as chair of the ICA commission Geospatial Ontology and Semantics for the next period.

Best regards,



Prof. Dr. Francis Harvey

Leipzig, 10 January 2023

Commission on Geospatial Semantics and Ontology

Updated Terms of Reference

1. The proposed Commission continues to support the cartographic research community with investigations of geospatial semantics and ontology, their role in databases and visualization, including technical specifications, in the research and development of cartography. The commission broadly considers conceptual, linguistic, social/cultural, logical, and multiple perspectives. Commission support will include developing and maintaining a membership list, creating a commission website for information dissemination and exchange, and organizing scholarly events connected to the ICA.

Subtopics of the domain to be researched include:

- Ontology design through knowledge graphs and query-based analysis
 - Spatial semantics and data infrastructures
 - Institutional aspects of semantics and ontology
 - Creating, finding, and communicating meaning
 - Linked open data and controlled vocabularies
 - Reasoning and inference axioms
 - Interfaces between natural language processing, cartography, and geographical information systems (GIS)
2. The commission will facilitate science and humanities community interactions to connect semantic and ontological research and implementation in academic, government, and professional areas. The influence of institutions and their cultures on ontology and semantics is a particular area of interest. One or two central projects are proposed to provide a focus for collaborative work; a workshop with resulting edited publications, such as articles, journal special issues, and book publications (e.g, in *The International Journal of Cartography* or Springer's *GIScience* series); and education or resource building resources to advance geospatial semantics and ontology practices. The Chair and vice-chair plan to organize conference sessions at ICC 2023 and 2025 and host or collaborate with conference-connected workshops in the alternating years. The commission will offer support to conferences and workshops where it is invited to do so.

3. Using the ICA Research Agenda as a broad framework, the commission will support approaches that address the complexity of growing online data repositories through ontological analysis and automated knowledge extraction of geographic information. Aspects of various ICA themes, such as generalization, visualization, society, history, and theory are areas that support strong collaboration with a possible Geospatial Semantics and Ontology commission, ICA working groups and groups outside the ICA. Among these are coordination with IGU Commission on Geographic Information Science, University Consortium for Geographic Information Science (UCGIS), or other institutions represented or contacted by Commission members.