Biographies of the Editors and Contributors

Editors

Daniel Sui is professor of geography and distinguished professor of social and behavioral sciences at the Ohio State University. He also serves as chair of geography (since July 2011) and director of the Center for Urban and Regional Analysis (CURA) (since July 2009). Sui holds adjunct professorship at the John Glenn School of Public Affairs, Knowlton School of Architecture (the City and Regional Planning program), and College of Public Health at OSU. Prior to assuming his position at OSU in July 2009, Sui was professor of geography (1993–2009) and holder of the Reta A. Haynes Endowed Chair (2001–2009) at Texas A&M University. He holds a BS (1986) and MS (1989) from Peking University and PhD from University of Georgia (1993). His current research interests include geographic information science, urban geography, and geographic thought. Sui has authored/coauthored 4 books and over 100 articles in these areas. Sui was a 2009 Guggenheim Fellow. He is also a current member of the US National Mapping Science Committee and serves as editor in chief for *GeoJournal*.

Sarah Elwood is professor of geography at the University of Washington. She received a BA in Geography from Macalester College in 1994 and an MA and PhD in Geography from the University of Minnesota in 1996 and 2000. Her recent research bridges critical GIS, urban political geography, qualitative methods, and participatory action research, including a long-term collaborative project on the use and impacts of geographic information systems and GIS-based spatial knowledge in neighborhood revitalization, and a coedited volume on qualitative GIS. She is currently concluding a 3-year project on interactive mapping technologies in collaborative learning and civic engagement with young teens, and beginning research on the spatial politics of poverty and class identities in economic crisis and recovery.

Michael F. Goodchild is Jack and Laura Dangermond professor of geography at the University of California, Santa Barbara, and director of UCSB's Center for Spatial Studies. He received his BA degree in Physics from Cambridge University

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in 1965 and his PhD in Geography from McMaster University in 1969 and has received four honorary doctorates. He was elected to be a member of the National Academy of Sciences and Foreign Member of the Royal Society of Canada (2002), member of the American Academy of Arts and Sciences (2006), and Foreign Member of the Royal Society and Corresponding Fellow of the British Academy (2010), and in 2007, he received the Prix Vautrin Lud. He serves on the editorial boards of ten journals and book series and has published more than 15 books and 400 articles. His current research interests center on geographic information science, spatial analysis, and uncertainty in geographic data.

Contributors (By Alphabetical Order of Last Names)

Benjamin Adams is a PhD candidate in the Department of Computer Science at the University of California, Santa Barbara, and a member of the Spatial Cognitive Engineering (SpaCE) Lab. His research is concerned with developing new computational methods to organize and represent geographic knowledge drawn from heterogeneous data sources in order to aid both humanistic and scientific inquiry. This research touches on both the practical development of tools and methods for exploring and synthesizing these data as well as theoretical issues regarding the representation of geospatial data semantics. Benjamin is the program manager for the Cognitive Science program at the University of California, Santa Barbara. He received his MA in Computer Science from the University of California, Santa Barbara (2011), and BA (*summa cum laude*) in Social Science and Computer Science from Eastern Michigan University (2006). He was an NSF Integrative Graduate Education and Research Trainee in Interactive Digital Multimedia from 2007 to 2009.

Thomas Bartoschek is a doctoral student at Institute for Geoinformatics, University of Münster, Germany, where he leads the GI@School initiative (http://www.gi-at-school.de) in its 6th year. In his PhD studies, he is doing research on geospatial learning and thinking with geotechnologies and on GIScience education. Volunteered geographic information plays a key role in his scientific and professional work. Several prototypes of applications for geospatial learning, which he has developed or supervised, were based on VGI or made for the production of VGI in educational contexts. In teaching, especially in his K-12 education efforts and teacher trainings, he "evangelizes" the use and collection of VGI and has reached thousands of students and teachers over the last years. Thomas is also involved in the organization of the Vespucci Summer Institute on Geographic Information Science (http://vespucci.org).

T. Edwin Chow is an assistant professor in the Department of Geography at Texas State University–San Marcos. He holds a PhD in Geography from the University of South Carolina. His research interests focus in Internet GIS, volunteered geographic information (VGI), and GIS-based modeling. His recent passion in research related to spatial demography is to investigate the potential of Web demographics to unearth spatial patterns of population dynamics. His other work involves a broad spectrum of GIS-based modeling, including site assessment, quality of life, risk assessment,

hydrology, and wildland fire. He has been working on several collaborative research projects to model raccoon habitats and conduct ecological risk assessment, associate precipitation and surface runoff with ENSO periods, and simulate wildfire behavior in grassland ecosystems. Edwin teaches GIS at all levels (i.e., undergraduate, masters, and doctoral) as well as a graduate course in quantitative methods. He has the pleasure to mentor, and learn a lot more from, several masters and PhD students. He has also been serving as an ad hoc reviewer for many GIScience journals (e.g., IJGIS) and the NSF grant proposals.

David J. Coleman is dean of engineering and professor of geomatics engineering at the University of New Brunswick in Canada. Prior to obtaining his PhD, he spent 15 years in the Canadian geomatics industry – first as a project engineer, then as an executive with one of Canada's largest digital aerial mapping companies, and later as an owner and partner in a GIS and land information management consulting firm. The former chair of UNB's Department of Geodesy and Geomatics Engineering, Dr. Coleman has authored over 150 publications and reports dealing with land information policy development, geomatics operations management, geographic information standards, and spatial data infrastructure. He is a fellow of the Canadian Academy of Engineering, a past member of the GEOIDE Research Network Board of Directors, a former president of the Canadian Institute of Geomatics, and president-elect of the Global Spatial Data Infrastructure Association.

Jon Corbett is an assistant professor in the Community, Culture and Global Studies Department at UBC Okanagan and the codirector of the Centre for Social, Spatial and Economic Justice. He has three primary research interests: firstly, to explore how digital multimedia technologies can be combined with maps and used by people to document, store, and communicate their spatial knowledge; secondly, to examine how geographic representation of this knowledge using these technologies can strengthen community internally as well as externally by increasing people's influence over decision-making processes; and, thirdly, to address the process and implementation of sustainable development, particularly with respect to community-based resource management. All aspects of his research incorporate a core community element. Within the context of his research program, this means that the research is of tangible benefit for the communities with which he works, that those communities feel a strong sense of ownership over the research process, and that community members are engaged by and engage in the research endeavor.

Nicolás di Tada spends most of his time designing and managing software projects. Before starting his company, Manas Technology Solutions, Nicolás spent 10 years as a software architect and project leader for many organizations, including start-ups and large corporations, acquiring a background in information retrieval, machine learning, information visualization, and Web development. During the last 7 years, he founded two other companies in the fields of e-learning and consumer-end social applications and guided several development teams through a wide variety of projects ranging from digital photogrammetry and biomedical signal processing to enterprise applications. Both for small start-ups and Fortune 500 companies, his teams have always proudly delivered usable and effective software on time. Passionate about the convergence between technology, science, and art to make a better world,

Nicolas currently leads the design and development of InSTEDD's software platform, coordinating the distributed development team, open-source contributors, interns, and volunteers.

Michael W. Dobson is president and principal consultant for TeleMapics LLC. He provides strategic and technical consulting to national and international clients involved in mapping, local search, location-based services, navigation, and telematics. His blog "Exploring Local" is widely read by members of the community interested in maps and mapping. He was previously employed as the CTO and executive vice president of technology for go2 Systems where he served as the corporate officer responsible for technology, software engineering, IT, and product development. go2 supplied location services, including mapping and routing to major wireless carriers and services, such as MSN Wireless, AT&T Wireless, Sprint, Nextel, Verizon Wireless, and others. Earlier, Dobson was the chief technologist and chief cartographer for Rand McNally, where he managed the technology and software development organizations supporting the company's map-based commercial and consumer products and services. He also served as the company's vice president of business development and public relations spokesperson. Dobson began his professional career with the Geography Department at the State University of New York at Albany where he was an assistant and then associate professor.

Rob Feick is an associate professor in the School of Planning at the University of Waterloo. His research focuses broadly on the application of spatial information technology to assist decision making and public participation in land management and planning. His current research focuses on the development and evaluation of PPGIS, VGI, and Web 2.0 tools that facilitate citizen involvement in community planning contexts, spatial-decision-aiding methods such as GIS-based multicriteria analysis, and Web-based spatial data visualization.

Marcus Goetz is a research assistant at the GIScience group (Geoinformatics) at Heidelberg University since early 2010. He has a background in mathematics and computer science and holds a diploma degree in Computer Science from the Karlsruhe Institute of Technology (KIT). He is currently working towards his PhD at the University of Heidelberg. Among other things, his current research interests include 3D city models, CityGML, (3D) VGI, and OSM, as well as (3D) indoor routing and indoor LBS.

Christopher Goranson is the director of the Parsons Institute for Information Mapping at The New School. PIIM is a research, development, and professional services facility that specializes in data and knowledge visualization. Previous to working at PIIM, Chris was the director of the GIS Center within the Bureau of Epidemiology Services, NYC DOHMH. The GIS Center is tasked with providing centralized resources including training, consulting, map production, and geographic information analysis support to the department. Prior to joining the department in 2004, Chris worked for a professional services firm supporting various federal client GIS projects including those for the EPA, FHWA, GSA, and USGS.

Muki Haklay is professor of geographic information science in the Department of Civil, Environmental and Geomatic Engineering, University College London. He is the director of the UCL Extreme Citizen Science research group, which aims to allow any community, regardless of their literacy, to use scientific methods and tools to collect, analyze, interpret, and use information about their area and activities. His research interests include (1) public access and use of environmental information, (2) human-computer interaction (HCI) and usability engineering aspects of GIS, and (3) societal aspects of GIS use – in particular, participatory mapping and citizen science. He received his PhD in Geography from UCL and holds a BS in Computer Science and Geography and MA in Geography from the Hebrew University of Jerusalem.

Darren Hardy is a senior analyst for the Ocean Health Index project at the National Center for Ecological Analysis and Synthesis, UC Santa Barbara. His research interests include spatial analysis, open scientific computing, distributed systems, and technology and society. He earned his PhD (2010) and Masters (2005) in Environmental Science & Management at the Bren School, UC Santa Barbara. His interdisciplinary dissertation examines the production and use of volunteered geographic information in Wikipedia. He has over 20 years of professional experience in roles for academia and industry, including the Harvest information discovery and access system (1995), an early Web search engine and proxy software (now Squid), and software engineering positions in Silicon Valley at Netscape Communications Corp., Affinia, Inc., and Napster, Inc. He also earned MS (1993) and BS (1991) degrees in Computer Science from the University of Colorado, Boulder.

Francis Harvey is an associate professor at the University of Minnesota. His research interests include location privacy, spatial data infrastructures, geographic information and sharing, semantic interoperability, and critical GIS. He serves on the editorial boards of the *International Journal for Geographical Information System*, *Cartographica*, *GeoJournal*, and the journal of the URISA. He published *A GIS Primer* with Guildford Press in 2008. He is currently finishing work on a long-term research project in Poland considering discrepancies between the cadastre and land use. He continues to work on SDI research, currently through an FGDC-supported project examining the return on investment for parcel data in regional data sharing (MetroGIS). He also contributed to the development of a model curriculum and resources for GIS ethics teaching (gisprofessionalethics.org).

Bin Jiang is professor in geoinformatics and computational geography at University of Gävle, Sweden. He is also affiliated to Royal Institute of Technology (KTH) at Stockholm via KTH Research School. He worked in the past with the Hong Kong Polytechnic University and the Centre for Advanced Spatial Analysis at University College London. He is the founder and chair of the International Cartographic Association Commission on Geospatial Analysis and Modeling. He has been coordinating the NordForsk-funded Nordic Network in Geographic Information Science. His research interest is geospatial analysis and modeling, in particular topological analysis of urban street networks in the context of geographic information systems.

He is currently an associate editor of the international journal *Computers, Environment and Urban Systems*.

Peter A. Johnson is a postdoctoral researcher and lecturer in the Department of Geography at McGill University, Montreal, Canada. In 2010, he completed his PhD in Geography, also from McGill University. For his dissertation, he developed an agent-based model to support the development of tourism planning scenarios. His research interests include the Geoweb, participatory GIS, and the use of geospatial technology in a community development context. In 2012, he will begin an appointment as assistant professor in the Department of Geography and Environmental Management at the University of Waterloo in Waterloo, Ontario.

Carsten Keßler (http://carsten.io) is a postdoc researcher at Institute for Geoinformatics, University of Münster, Germany, where he has been working in the Semantic Interoperability Lab (MUSIL) for several years. He has done research on context-aware information retrieval on the Semantic Web during his PhD studies. Volunteered geographic information has been one of his focus topics in teaching and research over the last years, with a strong focus on the semantics of VGI. His recent work focuses on the development of provenance-based measures of trustworthiness for VGI. His other research interests are in the areas of geosemantics, linked data and semantic technologies, context modeling, and collaborative and participatory geographic information systems. Carsten has co-organized a number of workshops and conferences, and he currently coordinates the University of Münster's Linked Open Data initiative (http://lodum.de).

Scott Kraushaar graduated from the University of Missouri–Columbia with an MA in 2011. Scott's thesis research focuses on volunteered geographic information and storm chasing including motivations for reporting, observing, and documenting storm reports. Scott has an interest in meteorology and recreational storm chasing and has been observing/spotting storms since the late 1990s. He is currently employed with the United States Department of Defense. In his spare time, Scott has been known to travel great distances in pursuit of rotating supercell thunderstorms and tornadoes.

Wen Lin has been a lecturer at the School of Geography, Politics and Sociology at Newcastle University in Newcastle upon Tyne, UK, since spring 2012. Prior to taking her current position, Wen was an assistant professor in the Department of Geography and Earth Science at University of Wisconsin–La Crosse (2009–2012). Her research interests include critical GIS, public participation GIS, and urban geography. Her main research centers on examining the intersection between the development and usage of geospatial technologies and the sociopolitical conditions in which these practices are situated. In particular, she has worked on three related themes: investigating the sociopolitical implications of recent mapping practices combined with Web 2.0 technologies, examining GIS-related practices in China's urban planning agencies, and examining public participation GIS practices in urban governance.

Grant McKenzie is a second year PhD student in the Department of Geography at the University of California, Santa Barbara. He holds a Master of Applied Science degree from the University of Melbourne (2008) and an Advanced Diploma in Geographic Information Science from the British Columbia Institute of Technology (2004). During his time in Melbourne, Grant was the recipient of the J H Mirams Memorial Research Scholarship and was awarded a Google Doctoral Colloquium Award and Scholarship for promising research proposal at the 2007 Conference on Spatial Information Theory (COSIT 2007). Prior to starting his PhD, Grant was a founding member of the Seattle-based start-up Spatial Development International and worked as a geospatial software developer for the engineering consulting firm CH2M HILL. Grant completed his BA in Geography at the University of British Columbia in 2002.

Mark H. Palmer is an assistant professor of geography at the University of Missouri–Columbia. His current research interests focus upon the social aspects of geographic information systems including the uneven development of geographic information networks within government agencies and their connections/disconnections within local and indigenous communities in North America. Palmer is also interested in understanding the dynamic interfaces between local knowledge systems, the geosciences, and digital technologies like GIS, in hopes of determining how elements of culture like language, storytelling, education, and performance influence the use and understanding of geographic information. Since moving to the forested hills of Missouri, Palmer has officially retired from amateur storm chasing.

Barbara S. Poore is a research geographer in the Center of Excellence in GIScience at the US Geological Survey specializing in volunteered geographic information and the use of social media in crowdsourced mapping. She has an AB in Art History from Wellesley College, an AM in Art History from Brown University, and a PhD in Geography from the University of Washington. Before embarking on a research career, Barbara worked for the Federal Geographic Data Committee during the establishment of the National Spatial Data Infrastructure. She lives and works by the bay in Saint Petersburg, FL.

Stéphane Roche is a professor of geographical information sciences in the Département des sciences géomatiques at the Université Laval, Québec, Canada. Stéphane is a surveying engineer (ESGT, France). He did a Masters in Planning and a PhD in Geography in the University of Angers (France). He is mainly interested in the analysis of the relationships between space and society with regard to the development process of the GeoWeb 2.0 and in the design of geospatial collaborative solutions (participatory GIS, WikiGIS) to address participatory geodesign practices. Stéphane coordinated with Claude Caron (University of Sherbrooke) for the book "Organizational Facets of GIS," published in 2009 by John Wiley and Sons. He was also (with Rob Feick, University of Waterloo) guest editor of the *Geomatica* special issue (vol. 64, n. 1) on volunteered geographic information. He is currently guest editor (with Mike Goodchild, University of California, Santa Barbara) of the special issue on geodesign of the *International Journal of Geomatics and Spatial Analysis*.

Renee E. Sieber received her PhD from Rutgers University and is currently an associate professor at McGill University in Montreal, Canada. Her prime research focus is public participation geographic information systems (PPGIS), the methods by which those who are marginalized from public policy can use computational mapping and spatial databases to better participate in policy making. These individuals may be inner city or indigenous peoples. She brings to this a background as a community organizer and activist as well as a computer programmer. She increasingly researches PPGIS on the geospatial Web 2.0 (Geoweb). Her research areas are diverse. She leads a team of 10 researchers in the use of the participatory Geoweb for global environmental and climate change. She also conducts research in the digital humanities. She organized the first public participation GIS conference. She cofounded the GIS specialty group of the Canadian Association of Geographers and co-organized Spatial Knowledge and Information Canada, the first academic GIS conference in Canada.

Jim Thatcher is a PhD candidate in Geography at Clark University. His research focuses on the intersection of global capitalist systems and mobile geospatial technology. As the use of mobile geospatial technologies rises, what is known, what can be known, and what can be done all shift for both the individual and the state. Jim's research focuses on how programmatic decisions can delimit the episteme of the end user. He can be followed on twitter @alogicalfallacy.

Sayone Thihalolipavan worked with Christopher Goranson on alcohol-related mapping projects in the past. He currently serves as the director of the Cessation Unit at the Bureau of Chronic Disease Prevention and Tobacco Control at NYC Department of Health and Mental Hygiene. He advises on BTC's policy, clinical, and educational interventions, ensuring conformity with current evidence and best practices as well as helping to devise innovative strategies to deliver population cessation interventions through direct mail, the internet, email, text messaging, and other media including the annual nicotine and gum program which gives and serves about 40,000 New Yorkers annually. He also oversees the employee smoking cessation clinic for any NYC government employee.

Eric B. Wolf has worked for over two decades in the software industry and is a geographer in the Center of Excellence in GIScience at the US Geological Survey. He does research on integrating citizen contributions into *The National Map*. Eric has a BS in Applied Mathematics from the University of Tennessee at Chattanooga and an MS in GIScience from Northwest Missouri State University. He is currently a doctoral candidate at the University of Colorado at Boulder under the advisement of Dr. Barbara P. Buttenfield. His dissertation is focused on the structure of metadata for spatial data infrastructures that include volunteered geographic information. Eric and his wife, Asha W. Wolf, live in Longmont, Colorado, with their dog and two cats.

Alexander Zipf is chair of GIScience (geoinformatics) at Heidelberg University since late 2009 and is a member of the Interdisciplinary Center for Scientific Computing (IWR), the Heidelberg Center for the Environment (HCE), and the

Department of Geography. He has previously been chair of cartography at University of Bonn and, earlier, was professor for applied computer science and geoinformatics at the University of Applied Sciences in Mainz, Germany. He has a background in mathematics and geography and finished his PhD at the EML European Media Laboratory in Heidelberg. Current research interests include among others 3D GIS, Spatial Data Infrastructures 2.0, as well as volunteered and crowdsourced geoinformation or location-based services (http://giscience.unihd.de).

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