BIOGRAPHICAL SKETCH

Ilya Zaslavsky is a Geographic Information Systems (GIS) and spatial data analysis specialist, with experience in university-level research, training and project management. He received his Ph.D. from University of Washington (1995) for research on statistical analysis and reasoning models for geographic data in multi-layer GIS. Previously, he received a Candidate of Sciences degree (Ph.D. equivalent) from the Soviet Academy of Sciences, Institute of Geography, for a study of metropolitan evolution (1990), and an M.A. equivalent from Moscow State University (Moscow, USSR) where he developed simulation models of urban systems. Between 1995-98, Zaslavsky was on the faculty at Western Michigan University (WMU), Department of Geography. In 1997-99, he worked for the Education Center on Computational Science and Engineering at San Diego State University, where he was the lead developer of Sociology Workbench, a collection of on-line tools for social scientists and data analysts. During 1997/98, he taught his regular classes at WMU from San Diego in real time, using web-based collaborative software. In March 2000, he joined the Enabling Technologies group of the San Diego Supercomputer Center. His research focuses on spatial databases, Web-based GIS, and XML-based mediation between heterogeneous geographic sources.

Dr. Zaslavsky's research interests and experience include:

- Geographic Information Systems, specifically: spatial analysis with GIS, syllogistics in GIS, business and environmental applications of GIS, GIS interoperability, GIS on the Web
- Methods and software for exploratory social data analysis
- Evolution of metropolitan areas, and dynamic simulation modeling of urban systems
- Synchronous distance learning and web-based collaboration

Employment

2000 - present	Research Scientist (pending), SDSC, UC-San Diego.
1997 - 2000	GIS Staff Scientist, Education Center on Computational Science and Engineering, and Adjunct Professor, Mathematical and Computer Sciences, San Diego State University Research and faculty training in high performance computational tools for sciences and engineering curricula.
1995 - 1998	Assistant Professor of Geography , Western Michigan University, Kalamazoo, MI Teaching regular courses in Geographic Information Systems, Computer Cartography and Statistical Analysis in Geography, Urban Planning.
1993, 1995	GIS Programmer/Systems Analyst , Schlosser Geographic Systems, Seattle, WA Programming for various business applications of GIS, in various languages.
1987 - 1991	Research Scientist , Institute of Geography, USSR Academy of Sciences, Moscow, USSR Research on metropolitan evolution; development of cartographic databases; scientific secretary of the Laboratory of Population Geography 1988-90.
1987 - 1991	Consultant, Software Engineer , Research Center "ROST", Small Enterprise "Context", Moscow, USSR. Software and applications of determinacy analysis, a frequency analysis of multidimensional contingency tables)
1985 - 1987	Head of Software Design Group, Associate Economist, Assistant Economist, State Institute for Urban Planning, Moscow, Russia

Five Relevant Publications

- A. Gupta, I. Zaslavsky, R. Marciano, 2000. "Generating Query Evaluation Plans within a Spatial Mediation Framework". Forthcoming in Proceedings of the 9th International Symposium on Spatial Data Handling, Beijing, China.
- I. Zaslavsky, A. Gupta, R. Marciano, C. Baru, 2000. "XML-based Spatial Data Mediation Infrastructure for Global Interoperability". Proceedings of the 4th Global Spatial Data Infrastructure Conference, March 2000. (Available from http://www.gsdi.org/capetown/program.htm)
- A. Gupta, R. Marciano, I. Zaslavsky, C. Baru,, 1999. "Integrating GIS and Imagery through XML-Based Information Mediation". In P. Agouris and A. Stefanidis (Eds.) *Integrated Spatial Databases: Digital Images and GIS*, Lecture Notes in Computer Science, Vol. 1737 (a preliminary version, presented at NSF International Workshop on Integrated Spatial Databases in June'99, is available from http://www.npaci.edu/DICE/Pubs/)
- Zaslavsky, Ilya. 1997. "Reasoning-Based Strategies for Processing Complex Spatial Queries" *Proceedings of the 1997 ACSM/ASPRS Annual Convention and Exposition* (Seattle, WA, April 7-10), Vol. 5 (Auto-Carto 13), pp. 106-115.
- Zaslavsky, Ilya. 1995. "Analysis of Association between Categorical Maps in Multi-Layer GIS". *Proceedings of GIS/LIS* '95 (Nashville, TN, November 14-16, 1995), Vol. 2, pp. 1066-1074.

Other Publications

- Zaslavsky, Ilya, and Naimark, Naum. 1999. "Development of the Urban Planning Cadastre in Russia". In J. Stillwell, S. Geertman, S. Openshaw (Eds.) *Geographical Information and Planning*, Springer-Verlag; pp. 154-169.
- Zaslavsky, Ilya, and Baker, Kathleen. 1998. "The Experimental Web-based Interactive Environment in Distance Teaching of GIS and Geographic Data Handling" *Proceedings of the 1998 ACSM Annual Convention and Exhibition* (Baltimore, MD, March 1-5), Vol. 2, pp. 437-446.
- Stewart, Kris, and Zaslavsky, Ilya, 1998. "Building the Infrastructure for High Performance Computing in Undergraduate Curricula: Ten Grand Challenges and the Response of the NPACI Education Center". *Proceedings of SC'98: High Performance Networking and Computing* (Orlando, FL, November 7-13).
- Zaslavsky, Ilya, and Craig ZumBrunnen. 1992. "Soviet Urban Geography Since the Time of Perestroyka". Epilogue to *Urban Geography in the Soviet Union and the United States*. Lahman, MA: Rowman & Littlefield Publishers, Inc., pp. 203-211.

Other selected highlights

- Microsoft Case Study in Higher Education featuring Zaslavsky's collaborative distance teaching experiment (12/98): www.microsoft.com/education/hed/studies/caseh55.htm
- Organized and directed Michigan GIS Institute (1997/99): www.wmich.edu/geography/GISinstitute/
- Designer and lead developer of "Sociology Workbench", a collection of on-line tools for survey data analysis on the Web (1998 present): http://edcenter.sdsu.edu
- "Best student paper" award from the GIS Specialty Group of the Association of American Geographers (1995).
- Grants: NSF DUE (1996, Co-PI), WMU FRACASF grant (1997/98), WMU VSAC award (1996/97)

Recent collaborators:

Chaitanya Baru, Richard Marciano, Amarnath Gupta (SDSC), Kris Stewart (San Diego State University)

Graduate advisor:

Nicholas Chrisman, University of Washington