

| SARAH WILLIAMS

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| EDUCATION

MIT \ Massachusetts Institute of Technology \ Graduate School of Architecture
[2005] Masters in City Planning (MCP) & Urban Design Certificate

UPENN \ University of Pennsylvania \ Graduate School of Design
[1999] Completed One Year towards Masters in Landscape Architecture

CLARK \ Clark University
[1997] BA History & Geography

| EMPLOYMENT

DIRECTOR OF SPATIAL INFORMATION DESIGN LAB: Columbia University

[2005-Present] Graduate School of Architecture Planning Preservation (GSAPP) New York, NY

- + Instruct graduate level courses in Geographic Information Systems (GIS), Cartography, and Spatial Visualization, including experimental class using Google Maps API.
- + Direct research which experiments with visualization techniques for spatial data. I am particularly interested in using "data traces" to expose patterns of human interaction in urban areas. Some research includes; New York City 311 phone calls, Mapping Cell Phone Use, Justice Mapping, and New York City Arts & Culture Clustering.
- + Wrote and directed the production of a book about Gateway National Recreation Area.
- + Coordinate University-wide committee on the use of GIS.
- + Supervise Graduate level Thesis and independent research.

URBAN DESIGN RESEARCH ASSOCIATE: MIT

[2003-2005] Graduate School of Architecture | Cambridge, MA

China Urban Design Studio: Research Associate

- + Instruct graduate Urban Design, Planning, and Architecture students.
- + Research Chinese planning issues and organize papers related to Chinese Planning.

SenSeable City Laboratory: Research Associate

- + Designed program for visualizing cell phone data in Milan, Italy.
- + Analyzed the ability of Location Based Services (LBS) to benefit from Cell Phone Mappings.

HEAD OF MIT GIS LABORATORIES: MIT

[2001-2003] MIT Libraries | Cambridge, MA

- + Established Geographic Information Systems (GIS) Laboratory, which acts as a GIS consulting service for MIT research projects that include GIS analysis.
- + Developed and created MIT's Spatial Data Repository and Geodata Search Tool.
- + Taught GIS training courses to MIT students, faculty, and staff.
- + Lectured in topics related to GIS and Planning.
- + Designed and maintained GIS Laboratory web site.
- + Represented MIT Libraries on MIT Metadata Advisory Group.

URBAN STORMWATER PROJECT MANAGER: Philadelphia Water Department

[2000-2001] Office of Watersheds | Philadelphia, PA

- + Project Manager for an EPA urban stormwater demonstration grant.
- + Developed outreach programs to cultivate relationships between the Philadelphia Water Department and community stakeholders.
- + Created methodology to identify urban wetlands and determine wetland creation sites.
- + Designed stormwater landscape plans for Philadelphia Water Department properties.

WEST PHILADELPHIA LANDSCAPE PROJECT (WPLP): Researcher : University of Pennsylvania

[1999-2000] Graduate School of Design | Philadelphia, PA

- + Assisted K-12 teachers in creating GIS curriculum for their classrooms.
- + Implemented an ArcView Internet Map Service for the WPLP.
- + Maintained West Philadelphia Landscape Project web site.

GIS PROGRAMMER / TECHNICAL SUPPORT SPECIALIST: Clark Labs IDRISI Project

[1996-1999] Development Team | Worcester, MA

- + Designed and programmed interface for Clark Labs GIS software products.
- + Researched and developed technical manuals related to GIS and Epidemiology workbook series funded by the United Nations.
- + Wrote and edited technical manuals including help system and web pages.
- + Served as liaison between technical support and programming staff.
- + Represented Clark Labs at international and domestic conferences.

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| CONSULTING

LANDSCAPE ARCHITECTURE

- + StoSS Landscape Urbanism - Worked on award winning Papago Trail Competition.
- + Michael Van Valkenburg Associates - Worked on 1st Place entry Brooklyn Bridge Park Competition.

STRATEGIC PLANNING & GIS CONSULTING

- + Boston Public Health Commission/ Emergency Medical Services
 - Developed GIS Strategic Plan & Needs Assessment.
 - Created tool for Mapping EMS response times.
- + Local Initiatives Support Corporation - Created maps of LISC and LINC cities.
- + Community Partners Inc. - Created maps Boston area artist studios and lofts.
- + Andrew Reamer Associates - Designed maps for economic reports.

| AWARDS

- + Nominated AESOP Prize Paper: Best Published Paper over 2006: [TBD July 2007]
- + National Parks Conservation Association (NPCA) Research Grant [2006-2007]
- + Unbuilt Architecture Award: Boston Society of Architects: Silresim Superfund Redevelopment Study [2004]
- + Unbuilt Architecture Award: Boston Society of Architects: Papago Trail Design Competition [2002]
- + MIT Infinite Mile Award: Innovation and Creativity [2002]
- + Phi Alpha Theta Honor Society [1997]
- + H. Donaldson Jordan History Essay Award [1997]

| PAPERS \ PUBLICATIONS

- + Envisioning Gateway: A Study of Gateway National Recreation Area [2007]
- + The Crime in Criminal Data: Columbia University's Spatial information Design Lab Visualizes Justice" Architecture, pg 52-53. [November 2006]
- + "Spatial Information Design Lab: Million Dollar Blocks: A Project for Visual Communications" Journal of Visual Communications pg. 241-244, Volume 5, Issue 2, [2006]
- + "Mobile Landscapes: using location data from cell-phones for urban analysis." Environment and Planning B Vol. 33 pages 7-27-748 [2006]
- + "Spatial Information Design Lab: Million Dollar Blocks" Volume /Archis vol. 20 # 4 [November 2005]
- + "City on the Rail: MIT-Tsinghua Urban Design Studio", World Architecture, [March 2005]

| PRESENTATIONS \ EXHIBITIONS

- + "Million Dollar Blocks" American Association of Geographers [2007]
- + Exhibition of Work Architecture League New York City "Architecture and Justice" [2006]
- + Exhibition of Work (both Spatial Information Design Lab and SenSeable City Lab) Venice Biennale [2006]
- + "Urban Data Traces" Sensing Urbanization in India and China: Close-up and Remote New School [October 2006]
- + "Million Dollar Blocks": NACIS [October 2006]
- + "Mapping Data Traces and New York Cities 311 Data": NACIS [October 2006]
- + "The Good the Bad and the Ugly: Determining and Creating Geographic Data Credentials (Metadata)" MIT IAP Lecture Series [2003]
- + "Working Together: Mill Creek Watershed Project" MIT Building Technology Lecture Series, Cambridge, MA [2001]
- + "African-American Celebrations as Political Outlets" Seymour N. Logon Symposium, Worcester, MA [1995]

| WORKSHOPS GIVEN

- + GIS & Community Activism | Bard College [2006]
- + Using GIS to Understand Density | Columbia University Real Estate Program [2006]
- + Using GIS for Site Planning | MIT Department of Urban Studies and Planning [2004]
- + MIT IAP GIS Workshop Series [2002, 2003]
- + "GIS for Community Development Corporations" MIT's Center for Community and Reflective Practice (CRCP) [2004]

| SKILLS

GRAPHIC

All Adobe and Macromedia suite products. AutoCad and 3D modeling programs including; Sketch-up, FORMZ, MAYA, and 3D Studio Max.

GIS

ArcGIS and extensions, ArcSDE, ArcIMS, ArcView and extensions, Arc/Info, MapInfo, IDRISI, PCI Geomatica, Erdas Imagine, Cartalinx, Feature Analyst. Experienced in Remote Sensing and Image Processing techniques. Oracle and Access. Fluent with Stata and SAS.

PROGRAMMING & WEB

Extensive experience with Dreamweaver, HTML, XHTML, XML, KML, GeoRSS and Java script. Delphi, Visual Basic, Visual Basic for Applications (VBA). Familiar with SQL.