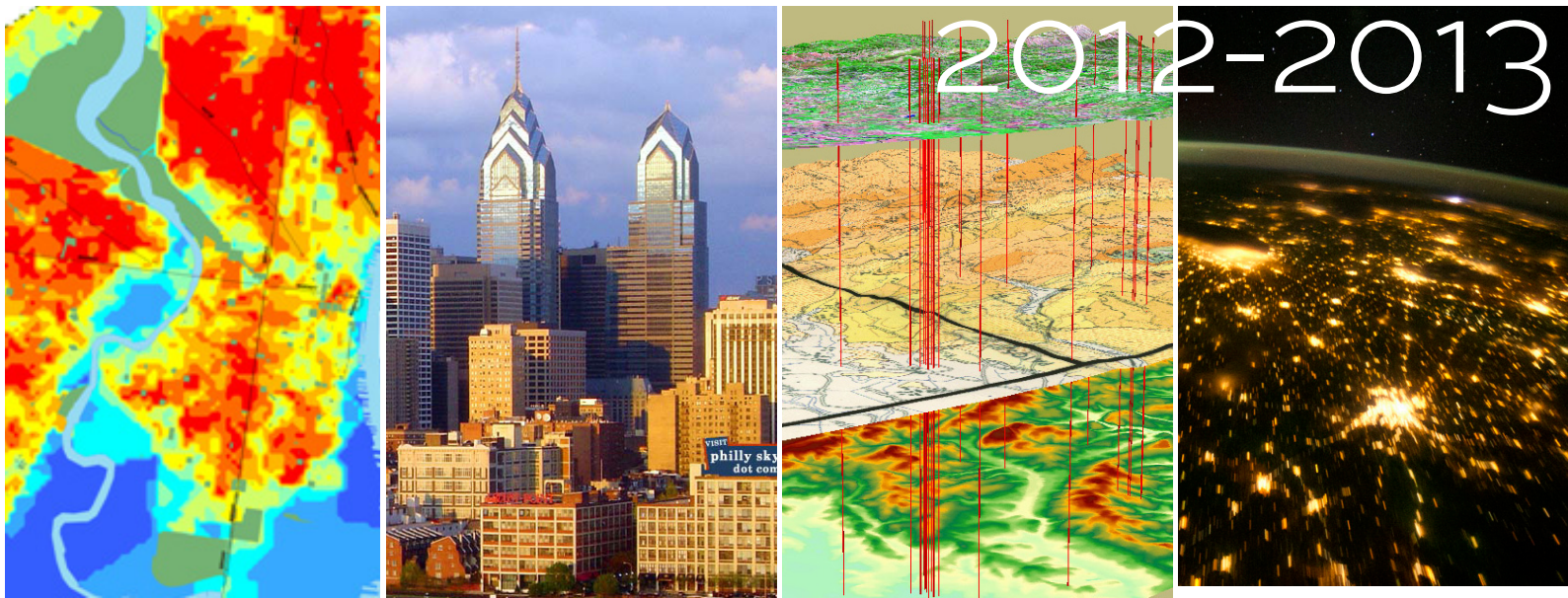# MASTER OF URBAN SPATIAL ANALYTICS
RESUME BOOK
2012-2013

PennIUR
PENN INSTITUTE for URBAN RESEARCH

PennDesign

Resume Book

This document contains resumes from students in the *Master of Urban Spatial Analytics* program. The degree is administered by the *University of Pennsylvania School of Design* (PennDesign) in cooperation with the *Penn Institute for Urban Research* and draws on teaching and research faculty from the schools of Design, Engineering, Business, and Public Health.

Master of Urban Spatial Analytics [MUSA]

A recent U.S. Department of Labor study identified geospatial analysis as one of twelve fastest growing knowledge-based professional fields. Spatial analysts are undertaking public health investigations, helping retailers and service providers find store and facility locations, working with transit providers to provide real-time vehicle information, developing strategies for community policing, identifying natural and cultural features for conservation, helping city planners promote infill development and combat urban sprawl, assisting conservation biologists identify priority conservation lands for acquisition or protection, and working with professionals in many disciplines to explore the likely impacts of global climate change.

It is for these future knowledge builders and decision-makers that Penn's one-year Master of Spatial Analytics, or MUSA degree, is designed. The MUSA degree couples expertise in the use of Geographic Information Systems (GIS), with knowledge of spatial statistics and substantive practical knowledge in one or more urban content areas. An urban content area consists of two or three courses in a subfield of each student's choice. Past and current MUSA students have identified urban content areas in business, real estate, public health, housing, urban transportation, community and economic development, criminology, social policy, urban environments, international urbanization, and urban design. To our knowledge, the MUSA degree is the only GIS/Spatial Analysis degree offered anywhere to couple mapping, spatial analysis, and a substantive specialization.

FOCUS AREA

Community & Economic Development
Lucie Anselin
Alexandria Barnes

Land Use & Environmental Planning
William Cooper
Brynn Leopold
Wesley Weaver

Public Health
Andrew Campbell
Juntian Xia

Transportation
Jason Owen

Property Development
Qianqian Zhao

Other
Jun Du
Sonal Tiwari
Hao Wang

TABLE OF CONTENTS

Lucie Anselin

(217)-390-7905
lucie.anselin@gmail.com

24 W. Erie St. #4N
Chicago, IL 60654

Education		
	University of Pennsylvania	Philadelphia, PA
	Master of Urban Spatial Analytics (M.U.S.A.)	Degree Expected May 2013
	Barrett Honors College, Arizona State University	Tempe, AZ
	Geography (B.A.), History (B.A.)	2008 - 2012

Academic Awards		
	Departmental Award ($6,000)	Academic Year
	University of Pennsylvania School of Design	2012-2013
	Presidential Scholarship ($36,000)	2008 - 2012
	Arizona State University College of Liberal Arts and Sciences	

Recent Experience

GIS Intern — Philadelphia, PA
Hurley Franks & Associates Planning & Urban Design — Nov. 2012 - Present

Assembled and designed maps for a neighborhood redevelopment project to be used for display in public meetings and a published report. Performed other GIS and document publishing tasks related to various company projects.

Teaching Assistant — Philadelphia, PA
University of Pennsylvania Urban Studies Program — Sept. 2012 - Dec. 2012

Assisted instructor and students of Introduction to GIS Applications in Social Science - offering technical help with ESRI ArcGIS Desktop programs (ArcMap, ArcCatalog, ArcScene) and locating geographic data sources.

Student Volunteer Coordinator — Phoenix, AZ
Preservation Green Lab (National Historic Trust - Seattle) — Dec. 2011 - Apr. 2012
together with Phoenix Urban Research Lab

Coordinated Phoenix volunteers for a national effort to survey older, smaller buildings and build a national database of potential energy retrofits targeted to developers; piloted by the Preservation Green Lab of the National Historic Trust - see http://www.greenlabsurvey.org

Web Administrator/Student Worker — Tempe, AZ
GeoDa Center for Geospatial Analysis and Computation — Aug. 2010 - June 2012

Helped maintain the website http://geodacenter.asu.edu using the Drupal content management system, maintenance of e-courses in Moodle and Canvas learning management systems, various other web-based tasks including social media outreach.

Skills

ESRI ArcGIS 10.1 Suite (including Python tool development), Google Maps API, Adobe Flashbuilder API, Javascript, Python, Drupal CMS, Moodle LMS, Google Analytics, Gimp, Inkscape, Scribus, MS Office Suite, JMP, GeoDa.

Alexandria M. Barnes

3600 Chestnut Street MB 1291
Philadelphia PA 19104

513.264.6020
alexandria.barnes@gmail.com

EDUCATION

University of Pennsylvania, Philadelphia, PA
Master of Urban Spatial Analytics**,** Anticipated degree May, 2013

Wellesley College, Wellesley, MA
Bachelor of Arts in Urban Studies with a minor in Africana Studies**,** May 2012

SKILLS

Programing: CSS, JavaScript, HTML, PHP, SQL, Python
Microsoft Office: PowerPoint, Excel
ESRI: ArcGIS 10.1
Adobe Suite: Photoshop, InDesign, Dreamweaver, Illustrator, Fireworks
Other: Written communication, multi-tasking, presentation, team leading and building, creative thinker, problem solver

EMPLOYMENT HISTORY

Summer Organizing Fellow, June 2012-August 2012
Organizing for America, Cincinnati, OH
- Arranged neighborhood teams to volunteer for Barack Obama's 2012 campaign
- Planned events to increase awareness of the campaign in different communities

Planning Intern, July 2012-August 2012
Northside Community Council Cincinnati, OH
- Researched historical preservation guidelines
- Informed community on upcoming sale of local school building and how it would impact residents

Student Assistant August 2009- May 2009
Wellesley College, Africana Studies Department, Wellesley, MA
- Chief Editor of The Griot, Africana Studies Department Newsletter
  o Researched topics related to the department,
  o Organized meetings with all writers
  o Edited newsletter
- Assisted professors with daily tasks
- Wrote and designed advertisement documents for department events and courses

National Design Initiatives Intern June 2011- August 2011
Enterprise Community Partners, Wellesley, MA
- Researched past Rose Fellows' impact on their community
- Organized application materials for aspirant Rose Fellows

Legislative Intern June 2010 to September 2010
Office of State Senator Harriette L. Chandler, Boston, MA
- Researched issues pertaining to agricultural land restrictions and assisted constituents in adjusting their land restriction
- Assisted in constituent services

Careers In Business Initiative Apprentice June 2008 to July 2008 and June 2009- August 2009
Procter and Gamble Company, Cincinnati, OH
- Created training documents for analytical test database
- Improved the Supply Network Operation's training program and materials

RESEARCH

Enterprise Community Partners, Summer 2011
Advisor: Katie Swenson, VP of National Design Initiatives
Affordable by Design: A study of the impact of Rose Fellows on the communities that they are placed in.

Environmental Studies Independent Study, Spring 2011
Advisor: Dr. Marcy Thomas, Wellesley College
Living in the City Where It's Hard to Breathe: An analysis of asthma triggers in different areas using maps created with ArcView 10 to illustrate asthma rates in urban and suburban areas in California.

Africana Studies Independent Study, Fall 2010
Advisor: Dr. Filomina Steady, Wellesley College
Where is The Food: A study of the prevalence of food deserts in the greater Boston area

Andrew D. Campbell

3600 Chestnut St. # 523   Acampbell90@gmail.com
Philadelphia, PA 19104   240-506-1140

Education:

Bachelor of Science, Architecture	May 2012
University of Maryland, College Park, MD	GPA: 3.704
Master of Urban Spatial Analytics	Expected Graduation 2013
University of Pennsylvania, Philadelphia, PA	GPA: 4.0

Work Experience:

ECS Mid-Atlantic   Frederick, MD
Field Technician   Summers 2009-2012
- Ensured quality control and quality assurance on construction site
- Reviewed plans, evaluated field conditions and recommended changes
- Performed in-situ dynamic cone penetrometer testing
- Performed soil compaction testing utilizing nuclear density gauge
- Analyzed concrete for slump, temperature and batch time
- Gathered, documented and retrieved concrete samples
- Prepared engineering field reports

The Vesuvian International Institute   Stabia, Italy
Field Archeology   Summer 2010
- Collecting accurate dimensions of the Villa Arianna
- Splicing panoramas of walls for inclusion in digital model
- Excavating lapilli from root cavities in the garden of the villa

Team Leader   Summer 2011
- Coordinated a team of four
- Short range surveying of ancient walls using a digital theodolite
- Digital modeling of existing walls and frescos

Yellow Barn Studio and Gallery   Glen Echo, MD
Teacher's Assistant   2006 – 2008
- Constructed still life scenes and prepared models
- Provided constructive feedback to a class of 25-30 students
- Opened and closed studio space

Yellow Barn Studio and Gallery   Glen Echo, MD
Gallery Manager   2007 – 2008
- Maintained studio/ gallery walls
- Assisted artists in gallery set up and art placement
- Maintained the gallery during shows and handled art sales

Relevant Skills:
- Esri ArcGIS
- Adobe Creative Suite including Illustrator, Photoshop and InDesign
- Microsoft Office including Word, Excel, Powerpoint
- Trimble SketchUp.
- Autodesk AutoCad.

Awards & Achievements:

Dean's List- University of Maryland	2009 - 2012
Honors Program **-** University of Maryland	2009 - 2012
U.S. Green Building Council Students – Vice President	2010 –2012
Student Representative, Curriculum Committee	2011-2012

WILLIAM P. COOPER

Permanent Address: (412) 496-5679   Current Address:
7409 Richland Place   wpcooper88@gmail.com   2133 Montrose Street
Pittsburgh, PA 15208   Philadelphia, PA 19146

Education

Master of Urban Spatial Analytics, University of Pennsylvania, 2013 (Expected)
University of Pennsylvania
- Related Coursework: Geographic Information Systems (GIS), Spatial Statistics, Environmental Planning, Environmental Modeling

Bachelor of Arts in Environmental Studies, University of Pennsylvania, 2011, 3.7 GPA
University of Pennsylvania
- Junior transfer from Johns Hopkins University, Baltimore.
- *Related Coursework*: Earth Surface System Processes, Environmental Economics, Urban Sustainability, Ecology.
- *Senior Thesis*: "Using Multispectral Analysis in GIS to Model the Potential for Urban Agriculture in Philadelphia."
- *Honors*: Magna Cum Laude, Deans List 2010-2011, Elaine Wright Award for Applying Environmental Science to Community Service.

Work Experience

Institute For Urban Research, University of Pennsylvania, Philadelphia
MUSA Program Assistant, Fall 2012 - present
- Support the Institute for Urban Research's continued effort to promote the Master's of Urban Spatial Analytics through event organization and alumni engagement. Responsibilities included recruiting coordinating speakers for Penn GIS Day, Earth GIS Day, as well as monthly "Brown Bag Lunches."

Wharton GIS Lab, University of Pennsylvania, Philadelphia
Research Associate, Winter 2012 - Fall 2012
- Research Assistant to Dr. Susan Wachter
- Supported Dr. Wachter's collaboration with the Energy Efficient Buildings Hub
- Author on an assessment the economic value of energy-efficient retrofits to be distributed by the Energy Efficient Buildings Hub in 2013.
- Teaching assistant for two courses in urban real estate economics.

Partners for Livable Communities, Washington DC
Program Associate, Fall 2011
- Reported directly to the President, with responsibilities including program development and document drafting and editing.
- Conducted interviews and wrote best practices for the Met-Life funded publication *Stories for Change: Leadership Examples of Expanding the Arts to New Audiences.*

Philadelphia Global Water Initiative, Philadelphia
Volunteer Researcher, Summer 2011
- Surveyed water aid NGOs regarding efforts to monitor and evaluate the success of initiates, author on the report *Performance Indicators for Water and Sanitation Projects in the Developing World*.

Skills and Activities

Technical Proficiencies: ArcGIS (including python scripting), JMP, Microsoft Office (Excel, Word, Power Point), and extensive research and writing experience.
Activities:
- **University of Pennsylvania Cycling (**2012-present)
- **Quaker City Wheelmen: (**2012-present) raced the 2012 summer season, winning the Category 4 events of the Race Avenue Criterium, Pennsylvania State Road Race, and the General Classification in the Tour of the Catskills.
- **University of Pennsylvania Lightweight Rowing Team** 2009-2011, division I collegiate rowing team
- **Johns Hopkins Crew Team** 2007-2009, varsity

Hobbies: Backpacking/camping, cycling, photography, gardening.

Jasmine Du

90-32 55th Ave, Queens, New York 11373　　　　Tel: 215-317-9029　　　　jasiminegis@gmail.com

EDUCATION

- University of Pennsylvania, Master of Urban Spatial Analytics　　　　*Sep.2011-Dec.2012*
  Thesis: *Spatial Analysis of Voting behavior in Philadelphia Ward 15*
- Nanjing Forestry University, Bachelor of Science　　　　*2007-2011*
  City Planning with a concentration on Geographical Information System (GIS)

SKILLS

- GIS: ArcGIS Desktop and extensions (Spatial Analyst, 3D Analyst, Business Analyst, Community Analyst), QGIS, ENVI, ERDAS
- Programming: Python, C, Google Maps API, HTML, Matlab
- Statistics: Access, SQL, JMP, SPSS, Geostatistical Regression and Kriging Model
- Others: Net Logo Simulation, CommunityViz

PROFESSIONAL EXPERIENCE

Research Fellow in Philadelphia City Council Legislative and Policy Research Bureau　　　*Oct.2012 till now*

- Lead GIS group in geospatial research projects including project design and execution, software selection, and data management
- Conduct analysis and visualization of tax delinquency, vacant parcels and school districts in council districts
- Conduct GIS based site selection analysis of department store in 5th council district
- Distribute GIS software and provide installation assistance for departmental offices

Research Assistant at Wharton School, University of Pennsylvania　　　*Oct.2012-March.2013*

- Assisted in consumer behavior research of Shebrooke, Canada gasoline markets, under Jean-Francois Houde, Assistant Professor of Business Economics and Public Policy
- Developed python scripts to capture extra driving distances and time to drop by gas stations interfacing with Mapquest.com

GIS Summer Internship in City of Philadelphia, City Commissioner's Office　　　*Jun.-Sep.2012*

- Executed statistical analysis of voting behavior by testing logit regression model and spatial autocorrelation which revealed relationship of voting behavior and voters' characteristics, social-economic factors, complied as thesis
- Conducted analysis and visualization of voters' registration data, division workers data and congressional district boundary changes with ArcGIS 10

GIS Intern in Regional Plan Association, New York　　　*Jul.-Sep.2012*

- Compiled census data from NHGIS and Census Bureau for statistical analysis and mapping
- Data mining and literature review on New York State Agricultural Sustainability Project

GIS Intern in Delaware Valley Regional Planning Commission (DVRPC)　　　*Nov. 2011-Jan. 2012*

- Updated Delaware Valley Regional land use database and maps through geoprocessing tools according to visual inspection results of Digital Orthophoto Maps

SELECT ACADEMIC PROJECTS

- Carried out spatial regressions that take account of the spatial autocorrelation found in the OLS residuals when regressing Median Housing Value on Percent Housing Vacancy and Percent NonWhite in Philadelphia *Apr. 2012*
- Analyzed Pennsylvania Walmart store locations by Demographic Analysis, Segmentation Analysis, Competitive Analysis and Market Analysis with Esri Business Analyst Extension *Apr. 2012*
- Created a web-based emergency map with Flex API based on locations of fire stations, police stations and hospitals in Philadelphia to achieve a best routing in emergency *Dec.2011*

Awards from Penn Institute for Urban Research (PennIUR)

- Awarded sponsorship to attend the 2012 Esri International User Conference in San Diego, CA *July 23-27. 2012*
- Awarded sponsorship to attend the 2012 Center for Public Health Initiative Summer Institute on GIS & Public Health in Philadelphia *June 6-8, 2012*

Undergraduate Period:

- Thesis Published by 2011 3rd International Conference on Computer Engineering and Applications (ICCEA 2011): Changes in Forest Spatial Patterns Driven by an Intensive Land Use Scenario in Jiangsu Province over the Past Three Decades *2010-2011*

Brynn Casey Leopold

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(860) 305-1683

Local Address:
1205 SANW MB 371
3650 Chesnut St
Philadelphia, PA 19104

Permanent Address:
232 Cold Spring Road
Avon, CT 06001

EDUCATION

University of Pennsylvania, School of Design, Philadelphia, PA   MCP/MUSA Dual Degree candidate 2014, 2015
Master of City Planning; Master of Urban Spatial Analytics
Cornell University, School of Arts and Sciences, Ithaca, NY   2008 - 2012
Major in Government; Minors in Law and Society, International Relations
          Deans List – Spring 2009, Fall 2009, Spring 2010, Fall 2010, Spring 2011, Fall 2011, Spring 2012

PROFESSIONAL EXPERIENCE

Policy Development and Planning Intern, *Capitol Region Council of Governments* – Hartford, CT   July - August 2012
- Maintained, updated, and analyzed ArcGIS database for analysis of local towns' zoning ordinances and best practices example cities across the country for use in upcoming study of sustainable land use policies
- Researched planning policy for climate change mitigation and adaptation

Volunteer Consultant, *New York City Law Department, Office of Corporation Counsel* – NYC   April - May 2012
- Analyzed in ArcGIS adolescent arrest locations and middle schools against different school performance standards and environmental factors to identify patterns and clusters

Medical Records Assistant, *Women's Comprehensive Healthcare* – Avon, CT   Dec. - Jan. 2012
- Data-mined charts to enter into electronic medical records system

Advocacy Communications Intern, *Truman National Security Project* – Washington, D.C.   May - August 2011
- Conducted research into federal and state government laws and policy initiatives, with particular emphasis on military and national security programs, related to advocacy work on green energy and efficiency initiatives
- Drafted copy for earned and placed media, collaborated on message concepts, and managed day-to-day social media presence

Volunteer, *Connecticut Children's Medical Center, Government Relations Dept.* – Hartford, CT   Dec. 2010 – Jan. 2011
- Participated in advocacy projects, including maintaining lists of influential legislators and executive members in Connecticut and Washington
- Tracked and categorized legislation that could influence funding or practices of the hospital

Meet the Press Intern, *NBC Universal* - Washington, D.C.   June - July 2010
- Conducted research into policy projects and current events for each week's show
- Prepared briefs and memos for producers and staff
- Managed guests and audience during the live show

LEADERSHIP EXPERIENCE AND OTHER ACTIVITIES

Graduate Teaching Assistant, *University of Pennsylvania Dept. of City Planning*   Sept. – Dec. 2012
Team Member, *University of Pennsylvania Women's Hockey*   Sept. 2012 - present
President, *Cornell University Women's Ice Hockey Club*   March 2011 – March 2012
- Managed team of student-athletes, organized schedule, and secured funding for all activities

Founding Member, *Cornell Club Sports Committee*   Oct. 2011- May 2012
- Worked to develop unified club sports community and implement solutions for funding and resource problems

Peer Advisor, *Cornell University College of Arts and Sciences*   Aug. 2011 – May 2012
- Advised incoming first-year Cornellians by providing perspective and academic and career support.

Editor, *Cornell Global Development Journal*   Jan. – May 2011
- Attracted and edited submissions to the journal

SKILLS

- Year-plus experience with ArcGIS
- WordPress website management
- Microsoft Office Suite and Google Docs
- SPSS
- Conversational in Spanish
- Twitter: @BrynnLeopold

Jason Mutenda Owen

GIS analyst

445 South 43rd Street
Philadelphia PA
(267) 449 9178
jason.mutenda@gmail.com

EDUCATION

University of Pennsylvania - Philadelphia, PA   Expected May 2013
Master of Urban Spatial Analytics (MUSA)   GPA: 3.67

- Coursework*: Vector GIS, Web Mapping, Spatial Statistics, Transportation Planning, Land Use & Environmental Modeling,* Raster GIS

- Current projects include building a Python tool in ArcMap to analyze pedestrian safety in Philadelphia, and analyzing the space time pattern of election violence in Zimbabwe in 2008

Franklin and Marshall College - Lancaster, PA   May 2010
Bachelor of Arts (B.A.) Economics - *Cum Laude*   GPA: 3.64

- Coursework: *Econometrics, Urban* Sociology*, International Economics, Microeconomics, Macroeconomics, Perspectives on Development Economics, Class, Status & Power*

WORK EXPERIENCE

GIS Intern, Redevelopment Authority - Philadelphia, PA   Jan 2013 – May 2013

- Assisting in updating the city's model for vacant land pricing model

- Working with PRA staff to analyze housing abandonment

Researcher, HOFINET.org - Philadelphia, PA   Sept 2012 – Jan 2013

- Researched global mortgage markets, collected data, and wrote reports to post online

- Built an interactive web map with Google Fusion to display comparative global mortgage market data

GIS Analyst, Voice for Democracy - Harare, Zimbabwe   Nov 2010 – Aug 2012

- Mapped data on human rights abuses and elections in Zimbabwe

- Analyzed trends in political violence, and developed interactive maps with Avenza Mapublisher for presentations to donors and embassies

- Wrote proposals for funding and maintained website: www.v4d-zimbabwe.org

TECHNICAL SKILLS

GIS: ArcGIS Desktop 10 (Python, Spatial Analyst, 3D Analyst), Google Maps & Fusion Tables API, Avenza Mapublisher, currently learning Community Viz
Programming: HTML, CSS, and some JavaScript
Statistical Packages: JMP, SPSS, and some exposure to MATLAB

OTHER EXPERIENCE

Davis Projects for Peace Award Winner   June – Sept 2009

- Granted US$10,000 to implement an educational project in Harare, Zimbabwe

- Hired part time teachers, renovated a classroom, and planned activities including tree planting and a field trip to nature conservancy

- Planned, proposed and managed budget

Sonal Tiwari

tsonal@design.upenn.edu

Address: 4247 Locust Street, Apartment # 603, Fairfax Apartments, Philadelphia, PA 19104   (201)744-0917

PROFESSIONAL WORK EXPERIENCE:

Philadelphia Redevelopment Authority, City Urban fellow (GIS Analyst and Researcher)   **October2012- Present**
- Responsible for database management through LAMA, a land asset management system for all assets owned by the govt. agencies.
- Independently carried out network analysis for root optimization to ease the site investigation for over 5000 parcels of the city.
- Part of team to update the current land upfront pricing model which identifies and calculate the costs of the current system that govern vacant land management within the city. Responsible for calculating the values for the independent variables in the model.
- Responsible for deed research (current data review, potential data needs) at the department of records of the city government.
- Assembled and designed maps for a redevelopment project of Point breeze neighborhood in Philadelphia to be used for display in public meetings. Performed other GIS and document publishing tasks related to various company projects.

The Wharton School, University of Pennsylvania, Research Assistant   **July2012-Sept 2012**
Assisted Prof. Alexander Gelber, Assistant Professor of Business Economics and Public Policy
- Responsible for geocoding the data from census blocks to school districts level for the state of Ohio as a part of the research based on,
- Estimating the effect of infrastructure spending (including school infrastructure spending) on employment, specifically looking at local elections for infrastructure bonds (debt financed spending) and using close elections as quasi-random variation in the analysis.

LT Architects Pvt. Ltd., India, Architect   **June2010-July 2011**
- Lead Architect for diverse residential and commercial project at major cities of central India.
- Prepared project viability report & carried out a design analysis for "Inter State Bus Terminus cum Commercial Complex" at Jabalpur, a national competition winner project, conducted by government authority of the state.

Ar. Hafeez Contractor, Mumbai, India, Intern Architect   **Feb 2010- May2010**
- Responsible for coordinating quantity surveyors, experts, consultants, suppliers and contractors for execution of various buildings.
- Prepared bill of quantities, cost analysis and specification for project with a total budget of 120 million dollars.
- Part of design & planning team for various projects including a LEED rated project "(RGIPT) Rajiv Gandhi Institute of Petroleum Technology", an institute designed for Indian political leader Sonia Gandhi at Rai Bareli, India.

GIS RESEARCH EXPERIENCE:
- Carried out an independent study on "Evaluating vacant parcels for creating green spaces in Philadelphia", aiming the development of vacant parcels to reduce the crime rate across the city and increase the surrounding property value. Also compare the `green performance' of Philadelphia in terms of the present situation & the need /demand of the city   **Aug 2012**
- Independently developed a site selection model for Chipotle restaurants in Philadelphia at the Wharton geospatial lab by Market Analysis ,Demographic Analysis, Segmentation Analysis and Competitive Analysis with Esri Business Analyst Extension   **April.2012**
- Created a web-based emergency map with Flex API based on locations of hospitals in Philadelphia to achieve a best routing. **Dec.2011**
- Created a web-based routing map with Google maps API for the nearest 5, 10 or 20 restaurants of an input address, and achieved the routing detail when clicked   ***Nov.2011***

EDUCATION:

Masters of Urban Spatial Analytics, University of Pennsylvania, Philadelphia   **December 2012**
Core Courses: Introduction to Spatial Data Analysis, Modeling Geographic Space and Objects, Advanced Topics in GIS, Web Based GIS.
Wharton Courses: Urban Real Estate Economics, Business Geographic

Bachelors of Architecture, Rajiv Gandhi Technical University, Bhopal, India   **June 2010**
- Gold Medal in final year of Architectural studies.
- Thesis project, displayed in The Young Architects Festival [YAF-2010-2011], India.
- Citation in HUDCO Trophy at the National Association of Students of Architecture (2005) worked as a part of the team.

COMPUTER SKILLS: esri arcGIS10.1 suite, MS office suite, Google docs, matlab, flex, Google maps API, JMP, GeoDa. Fluent in troubleshooting hardware & software issues of different machines including plotters, printers, scanners, Macs & PC's.
DESIGN SOFTWARES: AutoCAD12, PhotoshopCS5, Adobe Illustrator, InDesign, Google sketch up, 3dstudio max, Revit2009, Rhino cores

HAO WANG

4400 Spruce St, Apt C1   Tel: (513)419-9702
Philadelphia, PA 1910   Email: wanghao1@design.upenn.edu

Education

University of Pennsylvania, USA   *2011.9-2012.12*
Master of Urban Spatial Analytics

University of Cincinnati, USA   *2009.9-2011.6*
Bachelor of Science, Major in Geography

Sun Yat-Sen University, China   *2007.9-2009.7*
Bachelor of Science, Major in Geographic Information System and Remote Sensing

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Working/Internship Experience

- ***Research Fellow, Council President's Office, Philadelphia City Council, USA***
  2012.10-
1. Served the Council with various GIS projects related to demographic data, voting, vacant properties, tax delinquency, etc;
2. Served the Council with GIS cartography and web maps in Arcgis Online;
3. Database analysis and data-mining in Excel and Access.
4. Technical support of other council offices regarding GIS software installation, operation and analysis.

- ***Student Trainee, GIS Services Group, Office of Innovation and Technology, City of Philadelphia, USA***
  2012.6-2012.12
1. Completed the analysis of solar potential index in a pilot area in North Philadelphia;
2. Designed a poster for our data Vendor CyberCity 3D about the Philadelphia solar roof potential index for the ESRI International User Conference 2012;
3. Presented the solar project in 2012 Philadelphia Mayor's Internship Program and 2012 Esri Mid-Atlantic User Conference;
4. Assisted other department with software installation, maintenance and training.

Research Projects

"The Analysis of Solar Potential Index in Philadelphia"   *2012.6-2012.8*
A solar roof potential analysis of Philadelphia buildings would assist home owners and businesses in assessing whether their property was well suited for a solar project. Vendor, CyberCity 3D, delivered an articulated roof model for a 3 square mile pilot area of lower North Philadelphia, which included roof attributes of available area, pitch angle and solar azimuth. This dataset allowed us to develop a Solar Roof Potential based on the most opportune conditions for solar projects. The potential index was calculated for each roof feature of the pilot area and symbolized from based on the score. The results were made available internally for review on an ArcGIS Online Interactive map that allows users to search for the solar potential index of a specific roof feature. The finds were shared with Philadelphia's Office of Sustainability for review which prompted re-evaluation of the index to improve the accuracy.

"New Store Location Model for Sam's Club"   *2012.4*
Building a new store location model with Business Analyst Extension of ArcGIS will assist Sam's Club to choose where to expand their business. The model is based on the demographics around each existing stores in Pennsylvania by using a driving time analysis, then determining the segmentation profile target group which Sam's Club should attempt to locate near, a competitive analysis indicates the direct and indirect competitors, and a market analysis based on market surplus and leakage of grocery sales in Pennsylvania. Finally, an existing shopping center in that market was picked to locate the new store.

"The WebGIS Application of Finding the Closest Gas Station in Cincinnati"   *2012.4*
The WebGIS Application is written in HTML and JavaScript on Flex platform with two ArcGIS APIs: "Geocoding an address" and "Closest Facility". By typing an address on the User Interface, the application will load the gas station data saved on the server and generate the route(s) as well as estimated travel time to the closest gas station(s).

"Analyzing the Bearcats Transportation System around UC Campus"   *2010.3*
The Bearcats Transportation System (BTS) is a shuttle service with seven routes launched by the University of Cincinnati (UC) to facilitate the students in commuting from the residential neighborhoods to the Main Campus. The safety and efficiency of BTS attract our attention after the analysis of the schedule and routes of the shuttles with student density and crime data around UC Campus. We successfully improved the shuttle system by relocation several bus stops in order to meet "Student Concern", "Efficiency Concern" and "Crime Concern" mainly with the function of network analysis.

Skills

GIS: ArcGIS Desktop Suite 10.X, ArcGIS Server, ArcGIS Online, Business Analyst Extension, Community Analysis Extension.
Programming: Visual Basic, C/C++, Python, HTML, JavaScript, GoogleMap API, Flex.
Statistics: Excel, SPSS, JMP, Matlab.
Others: Adobe Illustrator, Excel, SPSS, JMP, Matlab.

WESLEY CARLIN WEAVER

1530 S. Broad St., Apt. 3 • Philadelphia, PA 19146
(717) 917-7795 • wesweaver1@gmail.com

EDUCATION

University of Pennsylvania, Philadelphia, Pennsylvania
Master's of Urban Spatial Analytics, anticipated graduation in May 2013
Content area in Land Use Planning

Temple University, Philadelphia, Pennsylvania
Bachelor of Arts, *cum laude*, Geography and Urban Studies, May 2010
Minor in Philosophy
GPA: 3.68
• Recipient of Carolyn Adams Award in Geography and Urban Studies

EXPERIENCE

Goldberg, Miller & Rubin, P.C., Philadelphia, Pennsylvania
File Clerk, August 2007 – August 2012
• Assistant for law firm of twenty-five attorneys specializing in civil RICO claims and insurance defense work.
• Maintained file system both in-house and at external storage facilities.
• Data entry and electronic network organization.
• Facilitated training of new employees.
• Organized trial and motion exhibits and couriered to City Hall and Federal District Court.

United States Student Association Foundation, Washington, D.C.
GrassRoots Organizing Weekend Trainer, January 2009 – May 2010
• Trained student and community activist organizations on strategic grassroots campaign planning and organizational development.

Philadelphia Jobs with Justice, October 2006 – October 2010
• Served on the Executive Board and Steering Committee
• Assisted organizers and directors in long-term campaign planning, organizational development, fundraising, geographic research and publishing of organization's newsletter.
• Assisted in developing strategy of the formation of the Philadelphia Security Officers Union.

Lancaster County Human Relations Commission, August 2005 – June 2006
• Assisted the Commission's Education Committee in developing programs to mitigate discrimination among county high school students in several school districts.
• Topics included racism, sexism, heterosexism, and classism.
• Recipient of Laurie Flick Humanitarian of the Year Award (2006)

Skills and Interests: Experience in raster and vector analysis and editing in ArcGIS Desktop, Spatial Analyst and Network Analyst extensions, and GeoDa. Experience in spatial statistics and familiarity with JMP and MATLAB software packages. Knowledge of computer languages, including Python for ArcGIS, Flex for the ArcGIS API and JavaScript for the Google Maps API. Familiar with local and regional land use planning, comprehensive plans, strategic and environmental planning. Primary interests include land use, zoning, stormwater management, environmental modeling and cartographic design.

3915 Pine St, Philadelphia, PA 19104 **Juntian Xia** (443)299-9573 / juxi@design.upenn.edu

GIS and PUBLIC HEALTH

Master of Urban Spatial Analytics — University of Pennsylvania, Philadelphia, PA

May 2013

COURSES / INTERN	SKILLS	PROJECTS
Cartographic Modeling (Grade A+)	ArcGIS (python), JMP	Transit/ Crime/ Real Estate/ Hydrology Work Combining and Creating GIS Tools (python)
Intro to Applied Statistics (Grade A+)	ArcGIS, JMP, GeoDa	Multi-Regression for House Values in PA; Hypothesis Testing for Distress Level
Web based GIS (Grade A+)	Google Map API, MySQL, Flex, ESRI Javascript API	Advanced Web Search for Hospitals in PA; Interactively Web Visualizing Accidents in PA
Intro to Spatial Analysis (underway)	ArcGIS, JMP, MatLab	Spatial-Regression for House Values in PA; Clustering Analysis of Burkitt's Lymphoma Cases
Environmental Modeling (underway)	SPSS, VISUM, HAZUS, CommunityViz, BASINS	Urban Growth/ Transportation Network/ Hazard Damage Modeling and Analysis
Intro to Public Health (Grade A+)		Cohort Study for a Multistate Cyclosporiasis Outbreak in the US
Geography and Health (underway)	ArcGIS, JMP, MatLab, ESRI Javascript API	Spatial-Regression for Accidents in PA; Toxin-Tour Analysis in Port Richmond, PA
Intern, Rehab Research Lab, Temple University	ArcGIS (python), SAS	Measuring Community Participation Level by Real-time GPS Tracking

Bachelor of Architecture & Bachelor of Art — Tsinghua University, Beijing, China

July 2011

COURSES / INTERN	SKILLS	PROJECTS
Design Studios (Architectural Design, Urban Design; Web Game Design, Mobile Game Design)	(Modeling) AutoCAD, SketchUp, Maya, Rhino (Graphing) Photoshop, Illustrator (Animation) Flash, VRML	Sustainable Design and Planning, Barkam Primary School, Sichuan Province, China Protective Design and Planning, Summer Palace Entrance Area, Beijing, China SNS Battle Game Design
C++ Programming	C++	Online Music Store Design
Intern, Zhangxin Studio, Tsinghua University	Radiance, DIVA, Daysim, Ecotect	Luminous Environment Simulation for Forbidden City Cining-Gong Palace, Beijing, China
Intern, Tsinghua Urban Planning & Design Inst.	AutoCAD, SketchUp, Photoshop	Design and Planning, Lushun Community, Liaoning Province, China

QIANQIAN ZHAO

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Email:qianzhao@design.upenn.edu   19104 Philadelphia, PA

EDUCATION

UNIVERSITY OF PENNSYLVANIA, Philadelphia, United States
Master of Urban Spatial Analytics (expected graduate date 08/2013)   *09/2012-present*
- ***GPA: 3.93/4*** (2012 fall)
- ***Highlighted Coursework:*** Cartographic modeling (advanced GIS including introduction to python); Intro to applied statistics; Web based GIS; Intro to property development; Modeling geographic space; Spatial analysis; Land use & environmental modeling; Progressive development.

TONGJI UNIVERSITY, Shanghai, China
Bachelor of Urban Planning   *09/2007-06/2012*
- ***GPA: 87.36/100***
- ***Highlighted Coursework:*** Urban planning studios (each semester); Urban geography; Urban Economics; Principles or urban planning; Urban design; Urban road and traffic; Urban policy analysis; VB; Database.
- ***Scholarship & awards:*** Tongji Excellent Academic Scholarship Second Prize, twice(2009,2010); Tongji Excellent Academic Scholarship Third Prize, twice(2008,2011).

INTERNSHIPS

SHANGHAI WESTERN UNION URBAN PLANNING & ARCHITECTURE DESIGN COMPANY *06/2012-08/2012*
Project:Shanghai International Tourism Resort (Disney) South One Area Plan & Design
- Focusd on the preliminary research of the site, proposed land use strategy and design concept which were accepted by the team leader.
- Facilitated the transportation connection between the site and city, organized transportation system inside the site.

SHANGHAI TONGJI URBAN PLANNING & DESIGN INSTITUTE   *02/2011-04/2011*
Project:Fuyuan North Station Area Urban Design
- Proposed land use strategy and drew sketches of the land use proposal.
- Researched into the designed features of the area and came up with design guidelines to positioning characteristics, design strategy, architectural style guideline and landscape style guideline.

SHANGHAI URBAN PLANNING & DESIGN RESEARCH INSTITUTE   *07/2010-10/2010*
Project 1:Shanghai Lingang New City Regulatory Plan
- Worked with the team, created the blueprints and the Mid-term presentation layout.
- Examined the balance of indicators of land-use and public facilities and proposed improvements to unreasonable parts of the previous plan.

Project 2:Shanghai elevated advertisement monitoring
- Analyzed on the site condition and recorded information collected.
- Proposed adjusting strategies to elevated advertising and completed the final presentation layout.

SCHOOL ACTIVITIES

- Member of the PennDesign Real Estate Club   *09/2012-present*
- Volunteer of Shanghai World Expo 2010   *05/2010*
- Volunteer of Shanghai Science and Technology Museum   *2009-2010*
- Volunteer of Shanghai "Sunshine Home"(Home for Mentally Handicapped)   *2009-2010*
- Director of CAUP Student Union   *09/2008-06/2009*

SPECIAL SKILLS

Languages: English and Chinese
Computers: ArcGIS, Database & Spreadsheet, Microsoft Office, Adobe Suite, AutoCAD, Sketch-Up.