Beichen Tian

University of Wisconsin-Madison
(Cell) 608-886-7468; btian8@wisc.edu
LinkedIn: https://www.linkedin.com/in/beichentiangis
Web Portfolio: https://beichentian-gis.github.io/

EDUCATION

2016.09-2017.08 Department of Geography, **University of Wisconsin-Madison (Anticipated Early Summer 2017)**
- **Major:** Geographic Information System Certificate

2014.09-2016.05 Department of Urban and Regional Planning**, University of Wisconsin-Madison**
- **Major:** Urban and Regional Planning (M.S. degree, GIS & environmental planning emphases)

2013.01-2013.12 Department of Earth Science**, Emporia State University**
- **Major**: Earth Sciences (exchange program)

2010.09-2013.01 Department of Natural Resource & Urban Planning Management**, South China Normal University**
2013.12-2014.07
- **Major**: Natural Resource and Urban Planning Management (B.S. degree)

CERTIFICATIONS

- **ArcGIS Desktop Associate 10.1**|ESRI|Starting January 2016|Expiration: Never
  Certificate Code: EADA101|Verification#: RD18HYEK2NBEKX35
- **LEED Green Associate**|USGBC|Starting May 2016|Expiration: Never
  Credential ID: 11053440-GREEN-ASSOCIATE

EXPERTISES & SKILLS

- **Coursework:** Human/Physical Geography, GIS, Cartography, Remote Sensing, Geocomputing, Geovisualization
- **GIS & Cartography:** ArcGIS 9.X/10.X, QGIS, ENVI 4.8, MapBox Studio
- **Design & Visualization:** Illustrator, InDesign, Photoshop (rudimentary), Blender, Sketchup, Lumion
- **Programming:** Python 2.7, HTML/CSS, JavaScript & jQuery, GDAL/OGR
- **Miscellaneous:** Microsoft Office (Word, Excel, PowerPoint, Excel, Visio), Google Earth

WORK EXPERIENCES

2017.02-Present **Voluntary Interactive Web Map Developer, Food Policy Committee, City of Madison**
- Delivered project proposal presentations to members of Food Policy Committee and other city officials
- Communicate with city officials to gather opinions on natural determinants of health for bee pollinators
- Develop front-end interactive web map application on pollinator habitat land suitability evaluation

2016.12-Present **Ecological GIS Technician, Department of Forest and Wildlife Ecology, UW-Madison**
- Digitizing polygons and editing attributes for historical land cover maps of Wisconsin counties using ArcGIS and other mapping tools.

2016.10-2016.12 **Group GIS Lead in Infectious Disease Mapping Challenge, U.S. Department of State**
- Mapped the geographic and temporal spread of recent vector-borne Yellow Fever in Central Africa.
- Overlapped and analyzed the disease's case distribution with multiple social or environmental determinants of health.
- Briefed officials from D.C on research findings, which may be used to inform policy decisions.

2016-Summer **ESRI User Conference Student Assistant, Environmental Systems Research Institute (ESRI)**
- Assisted with conference logistics.
- Prepared and monitored technical workshops.
- Facilitated attendee registration, outlet store cashiering, etc.

2015.06-2015.08 **Comprehensive Transport Planning Intern, Transport Planning and Research Institute (TPRI), Ministry of Transport (Division of Integrated Transport Research)**
- Calculated road density and adjusted transportation network connectivity for the City of Quzhou, Zhejiang Province, by means of TransCAD.
- Prepared written report on regionalized parking policy zones for the comprehensive transportation planning of the City of Quzhou.
- Assisted multiple public participation meetings in the City of Quzhou during pre-planning stage.

2013.12-2014.02 **Urban Regional Planning Intern, Zhuhai Institute of Planning and Design**

- Assisted with GIS map drawing and archiving by using ArcGIS.
- Rectified multiple design-used CAD basemaps by using AutoCAD.
- Designed and created conceptual 3D city model of Hengqin Development Zone for the City of Zhuhai. AutoCAD and Sketchup were both used to complete the tasks.

RESEARCH PROJECTS

2015.12-2016.04 **Suitability Evaluation and Neighborhood Design for Pollinator Habitat, City of Madison, Wisconsin**

- **Abstract**: This individual research project is a 25-page-long paper aiming at creating a more pollinator-friendly environment and a healthier local food system for the City. For implementing the goals, the project constructed a GIS-based suitability evaluation model to analyze the city's regional potential and environmental suitability to develop pollinator habitats. Based on the evaluation results, specific policy strategies combined with urban design graphics were provided as suggestions/recommendations for the local planning.
- **Duties**: Researcher and author of the project; Wisconsin and Madison pollinator protection background research; pollinator habitat suitability evaluation model literature review; interviewed with planners in the city government and with entomology specialists in the university; GIS-based single evaluation factor classification; GIS weighting and rating system construction; "problematic" sites identification and analyses; interactive web app "i-Pollinator" construction; urban space design.
- **Was awarded 1⁄4 Outstanding Graduation Project Presentation, UW-Madison**

2015.09-2015.12 **North Fish Hatchery Neighborhood Center Planning, City of Fitchburg, Wisconsin**

- **Abstract**: This planning project explores existing conditions, opportunities, and challenges in the North Fish Hatchery Road area, which is located within the north central area of Fitchburg, Wisconsin, as they relate to the concept of potential development of a neighborhood center in the area. It addresses past studies, public participation, demographics, transportation/mobility, and land use.
- **Duties**: Group GIS analysis lead; mapped potential demographic issues for the region (e.g. race segregation by income levels); interviewed with students from Aldo Leopold Elementary School for getting known about their opinions on "good neighborhood"; collected, categorized, projected, and distributed GIS data.

2011.03-2013.12 **Influencing Mechanism of Aquatic Ecosystem on Eco-development of "Sea Gull" Island in Guangzhou**

- **Abstract**: This research project aims to evaluate the land use developments and to propose potential solutions to local environmental issues for "Sea Gull" Island, which is currently the only alluvial island to be developed in Southern Guangzhou.
- **Duties**: On-the-spot investigation; digitized current land use patterns using ArcGIS; calculated and analyzed statistics; analyzed advantages and disadvantages of regional industrial development and causes of water pollution; completed a land use planning map; wrote a paper "*Planning of Sea Gull Island*".
- **Was awarded third prize in "*Challenge Cup*" University Students Research Contest in School of Geography, SCNU**

2012.03-2012.12 **Analysis of Job Opportunities of GIS Major Students in China (taking Guangzhou as an example)**

- **Abstract**: This research project aims to analyze GIS majors and job opportunities in Guangzhou in order to provide practical suggestions about GIS study and employment to new GIS major graduates.
- **Duties**: Group leader; planned the research; interviewed with professors, recruiters and students; collected and analyzed statistics; created maps and wrote a paper.
- **Was awarded "*Outstanding Project of SCNU*"**

AWARDS & HONORS

2017.02 Runner-Up for Most Unique Map in WLIA Map Competition, Wisconsin Land Information Association
2016.12 Winning Team in Infectious Disease Mapping Challenge, U.S. Department of State
2016.11 ESRI 2017 Geodesign Summit Student Scholarship, ESRI
2016.05 1⁄4 Outstanding Graduation Project Presentation, UW-Madison
2014.06 1⁄3 Valedictorian in the Graduation Ceremony of School of Geography, SCNU
2014.05 School-Level Outstanding Graduation Dissertation, SCNU
2012.12 Excellent Student Cadre in School of Geography, SCNU
2012.12 Third Prize in Future City at Sea Design Competition, SCNU
2012.11 Third Prize in "Leica Cup" Skills Competition (Urban Planning) in School of Geography, SCNU