Jerome Chia-Rung Yang

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Education

Master of Science, Clark University   Worcester, MA | 2010-2012
Geographic Information Science for Development and Environment
- GPA: 4.03/4.00
- Focus: cartography, visualization, web mapping, spatial epidemiology

Bachelor of Science, National Taiwan University   Taipei, Taiwan | 2005-2009
Geography
- Minor in sociology
- GPA: 3.96/4.00 (or 89.5/100)
- Ranked 1st in a class of 36
- Focus: cartography, graphic design, GIS, urban geography

Patents

Harrower, M., Bartley, J., Minami, M., Ponnusamy, P. and **Yang, J. C.-R.** 2014. Systems and Methods for Smart Cartography. U.S. Patent Application 20160246468A1, filed on February 24, 2015 and issued on August 25, 2016. [Google Patent]

Conference Papers

Yang, J. C.-R., Xia H., Edmunds, S. and Meintel-Wade, L. Mapping the Concentration of Ambient Air Pollutants for Central Massachusetts. Clark Annual Graduate Student Council Multidisciplinary Conference 2012. [Full paper] [Poster]

Yang, C.-R. and Xia H. Characterizing Factors Associated with Low Birth Weight in Massachusetts Using Geographically Weighted Logistic Regression. Association of American Geographers Annual Meeting 2012 (New York, NY). [Full paper]

Xin, H., **Yang, C.-R.** and Zhang, Z. Using IDRISI to Predict Japan's Nuclear Fallout Dispersion in the Pacific Ocean. International Symposium on Remote Sensing and GIS Methods for Change Detection and Spatio-temporal Modelling 2011 (Hong Kong). [Abstract]

Yang, J. C.-R. and Xia, H. Exploring the Association between Low Birth Weight and Exposure to Lead Using Geographically Weighted Odds Ratio. New England - St Lawrence Valley Geographical Association Annual Conference 2011 (Montreal, QC, Canada). Winner of Student Paper Award 1st Prize. [Extended abstract]

Invited Talks & Presentations

Esri User Conference   San Diego, CA | July 2014
"ArcGIS API for JavaScript, Mapping and Visualization" [Video]
"What's New for ArcGIS API for JavaScript" [Video]

Esri International Developer Summit   Palm Springs, CA | Mar 2014
"ArcGIS API for JavaScript: What Have You Done for Me Lately?"

Clark Cartography and Geovisualization Talks   Worcester, MA | Apr 2012
"Five Ways I Make Maps"

Waterkeeper Alliance Annual Conference   Evanston, IL | Jun 2011
"GIS Our Waterways Using Open Source GIS to Develop Interactive Maps for Our Waterways"

Awards & Honors

Geller Student Research Award   Worcester, MA | Dec 2011
Marsh Institute, Clark University
- A research grant for student proposals
- Award amount: USD 2,250
- Research proposal: "Exploring the Association between Low Birth Weight and Exposure to Air Pollution in Massachusetts: Air Pollution Concentration Monitoring"

Student Paper Award 1st Prize   Montreal, QC, Canada | Oct 2011
New England - St Lawrence Valley Geographical Association Annual Conference

IDCE Department Fellowship   Worcester, MA | 2010 – 2012
Clark University

Presidential Award   Taipei, Taiwan | 2006 – 2009
National Taiwan University
- Top 5% in class
- Awarded in 6 out of 8 semesters
- Ranked 1st in 2 semesters

Dean's Award   Taipei, Taiwan | Jun 2009
National Taiwan University
- Top 10% in graduating class
- Ranked 1st in a class of 36

Employment

Pointillist   Boston, MA | 2014-present

Senior User Interface Engineer
- Senior full-stack software engineer of Pointillist.
- Primary prototype developer and researcher of Alice, the experimental version of Pointillist.
- Scrum master.
- Languages and libraries: Java, Springframework, mySQL, HTML5, JavaScript, Angular.js, CSS3, d3.js, c3.js, etc.

Esri Inc.   Redlands, CA | 2012-2014
Product Engineer (JavaScript)
- Primary prototype developer and researcher of Smart Mapping.
- Sample developer and document writer of ArcGIS API for JavaScript from version 3.1 to version 3.8.
- Tester of ArcGIS.com.
- Languages and libraries: Python, HTML5, JavaScript, CSS3, AJAX, D3.js, Dojo, etc.

Esri Inc.   Redlands, CA | 2012
Intern (JavaScript)
- Sample developer and document writer of ArcGIS API for JavaScript version 3.0.
- Tester of ArcGIS.com.
- Languages and libraries: Python, HTML5 and Visual Studio Intellisense.

Center for Geographic Analysis, Harvard University   Cambridge, MA | 2011-2012
GIS Analyst (WorldMap)
- Data analyst and cartographer for WorldMap and AfricaMap.
- Languages: Python.

Maine Department of Marine Resources   Boothbay Harbor, ME | 2011
GIS Technician
- GIS data analyst for eelgrass mapping in Maine.
- Developer of a web map application.
- Fieldwork assistant.

National Children's Study   Worcester, MA | 2011
Research Assistant
- GIS data analyst and cartographer for research project.
- Fieldwork assistant.
- Software: Garmin tools, Google Earth.

GISDE Lab., Clark University   Worcester, MA | 2011
GIS Lab Manager
- Technical support for 40 master students.

Map and Multimedia Lab., National Taiwan University   Taipei, Taiwan | 2008-2009
Cartographer and Map Editor
- Primary editor and cartographer of Taiwan Map Calendar 2009 (print volume: 3,000).
- Cartographer of geography textbooks.
- Software: ArcGIS 9.2 and Adobe Illustrator CS3.