

Curriculum Vitae Ate Poorthuis

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Education

- 2011-15: PhD Candidate in Geography at the University of Kentucky (graduation May 2015)
Dissertation: *Analyzing Public Space in New York City: Methodological Opportunities of Big Data*
Committee: Matthew Zook, Jeremy Crampton, Andrew Wood, Daehyun Kim, Steve Borgatti
- 2008-10: Research Master Metropolitan Studies (MSc) at the University of Amsterdam (*cum laude*).
Thesis: *Dangers and limitations of Volunteered Geographic Information: an exploration through Flickr data.*
- 2009: Exchange Student at New York University (Wagner Graduate School of Public Service)
- 2008: Postgraduate Summer School, Social Science Research Methods at Hong Kong University
- 2005-08: Bachelor in Human Geography (BSc) with a minor in Asian Studies at the University of Amsterdam. Thesis: *City of Dreams: The Creative Class in Mumbai*

Fellowships and Awards

- Visualization work selected for The Best American Infographics 2015 (edited by Gareth Cook)
- Prins Bernhard Cultuurfondsbeurs (research grant), The Netherlands, 2013-2014 (\$13,000)
- Kentucky Opportunity Fellowship, University of Kentucky, 2013 (\$7,500)
- Graduate School Travel Fund, University of Kentucky, 2012 (\$800)
- International Geographic Information Fund Travel Grant, Association of American Geographers, 2013
- Association of Emeriti Faculty Endowed Fellowship, University of Kentucky, 2012 (\$2000)
- Barnhart-Withington Fund Research Grant, University of Kentucky, 2012 (\$500)
- Graduate School Travel Fund, University of Kentucky, 2012 (\$400)
- Kentucky Opportunity Fellowship, University of Kentucky, 2011-2012 (\$15,000)
- Daniel R. Reedy Quality Achievement Fellowship, University of Kentucky, 2011-2014 (\$3,000 per year)

Refereed Publications

- Crampton, J., S. Roberts, and A. Poorthuis (2014). The New Political Economy of Geographical Intelligence. *Annals of the Association of American Geographers* 104 (1), 196-214.
- Shelton, T., A. Poorthuis, M. Graham and M. Zook (2014). Mapping the Data Shadows of Hurricane Sandy: Uncovering the Sociospatial Dimensions of 'Big Data'. *Geoforum* 52: 167-179
- Crampton, J., M. Graham, A. Poorthuis, T. Shelton, M. Stephens, M. Wilson and M. Zook (2013). Beyond the Geotag? Deconstructing "Big Data" and Leveraging the Potential of the Geoweb. *Cartography and Geographic Information Science (CaGIS)* 40 (2), 130-139.
- Stephens, M., and A. Poorthuis (in press). Follow thy Neighbor: Connecting the Social and the Spatial Networks in Twitter. *Computers, Environment and Urban Systems*
- Pfeffer, K., H. Verrest, and A. Poorthuis (in press). Big data for better urban life? An exploratory study of critical urban issues in two Caribbean cities: Paramaribo and Port of Spain. *European Journal of Development Research*

Book Chapters and Other Publications

- Poorthuis, A and M. Zook (2014). Spaces of Volunteered Geographic Information. *In: P. Adams, J.*

Craine, and J. Dittmer, eds. *Ashgate Research Companion to Media Geography*. Surrey: Ashgate Publishing.

Zook, M. and A. Poorthuis (2014). Offline Brews and Online Views: Exploring the Geography of Beer Tweets. In: M. Patterson and N. Hoalst-Pullen, eds. *The Geography of Beer*. New York: Springer

Poorthuis, A. and M. Zook (2014). Artists and Bankers and Hipsters, Oh My! Mapping Tweets in the New York Metropolitan Region. *Cityscape* 16 (2): 168-172

Poorthuis, A. and M. Zook. (in press) Finding small stories in big data: gaining insights from large spatial point data sets. *Cityscape*

Poorthuis, A., M. Zook, T. Shelton, M. Graham and M. Stephens (in press). Using Geotagged Digital Social Data in Geographic Research. Book chapter submitted for *Key Methods in Geography* (3rd edition)

Poorthuis, A. (2013). Book Review: *Networked: The New Social Operating System* by Lee Rainie and Barry Wellman. *Journal of Regional Science*

Articles Under Review

Meeteren, M., A. Poorthuis, B. Derudder and F. Witlox (under review). Pacifying Babel's Tower: using scientometric analysis to de-stretch the concept of polycentrism. *Urban Studies*

Zook, M., T. Shelton and A. Poorthuis (under review). Social media and the city: using big data and critical geovisualization for urban research. *Landscape and Urban Planning*

Current Paper Projects

Poorthuis, A. *Reconciling Space: The Affordances of Big Data for A Critical Quantitative Geography*. [Dissertation]

Poorthuis, A. *Finding small stories in big data: applying scale-dependent hexagonal aggregation and odds ratios to detect significant clusters of spatial phenomena*. [Dissertation]

Poorthuis, A. *A multi-method study of everyday life in New York's public spaces*. [Dissertation]

Poorthuis, A., M. Zook and S. Gorman. *Exploring the demographic data shadows of Twitter*

Linnman, C., W. Christian, A. Poorthuis, M. Zook, *Flu Tweets: change in spatial behavior after receiving flu vaccine*

Meeteren, M., A. Poorthuis, B. Derudder, F. Witlox, Z. Neal, and M. Zook. *The enduring relevance of central place theory: an empirical 'big data' approach*.

Current Book Projects

Zook, M., R. Donohue, A. Poorthuis, T. Shelton, M. Wilson, M. Stephens and M. Graham. *New Maps: Using Open Source Tools for Geovisualization*. Under contract with John Wiley & Sons.

Peer Reviewed Conference Papers

Dugundji, E.R. (presenter), A. Poorthuis and M van Meeteren. *Modeling user behavior in adoption and diffusion of Twitter clients*. IEEE International Conference on Social Computing, Boston, MA (October 9-11, 2011) (acceptance rate 9.8%)

Van Meeteren M., A. Poorthuis (presenter) and E.R. Dugundji. *Mapping Communities in Large Virtual Social Networks*. Engaging Data Forum, MIT, Cambridge, MA (October 12-13, 2009) (acceptance rate 25%)

Van Meeteren, M. (presenter), A. Poorthuis & E.R Dugundji. *Mapping communities in large virtual social networks*. Collaborative Innovation Networks Conference, Savannah, GA (October 8-11, 2009) (acceptance rate 30%)

Teaching Experience

- 2014-15: Curriculum development online courses in Spatial Analysis and Web Mapping at University of Kentucky
- 2012-13: Primary Instructor GEO309 'Introduction to GIS' at University of Kentucky
- 2010-11: Junior Lecturer at the University of Amsterdam. Several bachelor-level methodology courses (e.g. Methods and Techniques of Spatial Planning; Qualitative Research Methods; GIS) and a graduate course on Advanced GIS.
- 2010: Teaching Assistant, GIS and Advanced Network Analysis at University of Amsterdam

Professional and Research Experience

- 2011-now: Lead developer for Data On Local Life and You (DOLLY) at University of Kentucky. DOLLY is a repository of Twitter data with a searchable interface that allows for real-time research, visualization and analysis of billions of geolocated data points.
- 2010-now: Founder, Hyphegesis. Consulting services include statistical and spatial analysis, GIS, developing interactive visualizations tools and custom scientific programming. Clients include Twitter, World Health Organization, universities and local governments.
- 2012: Research Assistant for Dr. Jeremy Crampton at University of Kentucky. Working on 'citizen science' mapping in both research and teaching using balloons, kites and quadcopters.
- 2007-09: Project Manager, Research and Development at Pictura Imaginis in Heiloo
- 2006: Research Assistant at the GIS Centre of the University of Amsterdam
Developed a data catalogue in which all GIS data obtained by the Centre is stored and indexed

Invited Talks

- Zook, M. and A. Poorthuis. *Data Visualization for Public Health: Promises and Challenges*. World Health Organization. April 15 2014.
- Zook, M. and A. Poorthuis. *Bringing local Geodata to journalism*. NICAR-IRE Annual Meeting 2013 (February 28-March 3)

Conference Papers

- Poorthuis, A. *Reconnecting social theory and big data*. AAG Annual Meeting 2014 (April 8-12, 2014)
- Zook, M. and A. Poorthuis, *Exploring the demographic data shadows of Twitter* AAG Annual Meeting 2014 (April 8-12, 2014)
- Donohue, R, A. Poorthuis, and Z. Johnson. *Bill Bunge, D3.js, and the Future of Critical Cartography*. North American Cartographic Information Society Annual Meeting 2013 (Oct 9-12 2013)
- Poorthuis, A. *How to find small stories in big data*. North American Cartographic Information Society Annual Meeting 2013 (Oct 9-12, 2013)
- Poorthuis, A. *Contributing Urban Space: A Genealogy of the High Line*. Royal Geographical Society Annual Conference 2013 (August 27-30, 2013)
- Poorthuis, A. *The everyday use of public space in New York City: a fruitful blending of geospatial and social network analysis of 'big' data?* AAG Annual Meeting 2013 (April 9-13, 2013)
- Poorthuis, A. *Tracing the variegated use of public space through the geoweb: a short history of the High Line*. SEDAAG Annual Meeting 2012 (November 18-20, 2012)
- Poorthuis, A. *Deconstructing the Tourist Gaze: Using the Geoweb to Explore The Production and Consumption*

of 'Tourist' Place in New York City. AAG Annual Meeting 2012 (February 24-28, 2012)

Poorthuis, A (presenter) and K. Pfeffer. *Exploring urban place: the potential, challenges and limitations of Volunteered Geographic Information.* Annual RC21 Conference, Amsterdam, The Netherlands (July 7-9 2011)

Poorthuis, A (presenter) and K. Pfeffer. *Studying the dynamics of place through Flickr photographs.* AAG Annual Meeting 2011 (April 12-16, 2011)

Poorthuis, A. *The possibilities and limitations of Volunteered Geographic Information: an exploration through Flickr data.* ISA World Congress of Sociology, Gothenburg (July 11-17 2010)

Dugundji, E.R. (presenter), A. Poorthuis and M van Meeteren. *Diffusion in large virtual networks: distinguishing social connections and cultural discourse influence on the adoption of Twitter clients.* INSNA Sunbelt (June 2010)

Professional Service – Journal Article Reviews

2014: Reviewer for *Applied Geography*, *The Canadian Geographer*, *Journal of Urban Technology* and *GeoJournal*

Other activities

2014: Assistant Editor Big Data & Society

2013: Invited participant in Curriculum Camp, an intensive conference aimed at developing online courses for GIS education at the University of Kentucky

2010-12: Editor and Treasurer of AGORA magazine. AGORA is a popular scientific magazine for social-spatial matters. Its board of editors consists of researchers and students from different social science disciplines in the Netherlands and Belgium.

2010: Organized academic conference *The Essence of the Urban* at the University of Amsterdam.

Professional memberships

Association of American Geographers

Southeastern Division of the Association of American Geographers

Cartography and Geographic Information Society

International Sociology Association

International Network for Social Network Analysis

FloatingSheep.org collective

University and Departmental Involvement

Ad Hoc Committee on Geographic Information Systems, University of Kentucky, 2012-2013

Other Skills and Experience

Programming languages: ruby, python, javascript

Statistical packages: R, SPSS

Desktop GIS: ArcGIS, MapInfo, GRASS, Idrisi, QGIS

Online Mapping & Visualization: ArcGIS Server, Tilemill, D3.js, CartoDB, Web Standards (CSS, HTML5, SVG, Canvas)

Offline visualization: ImageMagick, GIMP, Adobe Photoshop & Illustrator

Social network analysis software: UCINet, igraph, gephi

Databases: MySQL, Access, PostgreSQL/PostGIS, Cassandra, ElasticSearch, MongoDB

Fluent in Dutch and English