

Ate Poorthuis, Ph.D.

Humanities, Arts and Social Sciences
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Education

- 2015 Ph.D., University of Kentucky Department of Geography
Dissertation: *Social Space and Social Media: Analyzing Urban Space with Big Data*
- 2010 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.*
- 2008 Bachelor in Human Geography (BSc) at the University of Amsterdam.
Thesis: *City of Dreams: The Creative Class in Mumbai*

Appointments

- 2015 – present Assistant Professor in Humanities, Arts and Social Sciences, Singapore University of Technology and Design
- 2011 – 2015 Teaching and Research Assistant, University of Kentucky, Department of Geography
- 2010 – 2011 Junior Lecturer, University of Amsterdam, Department of Geography

Refereed Articles

- Poorthuis, A.** (2017). How to draw a neighborhood? The potential of big data, regionalization and community detection for understanding the heterogeneous nature of urban neighborhoods. *Geographical Analysis*. Online First.
- Poorthuis, A.** and M. Zook (2017). Making Big Data Small: Strategies to Expand Urban and Geographical Research Using Social Media. *Journal of Urban Technology*. Online first.
- Meeteren van, M. and **A. Poorthuis** (2017). Christaller and “big data”: recalibrating central place theory via the geoweb. *Urban Geography*. Online first
- Meeteren van, M., **A. Poorthuis**, B. Derudder and F. Witlox (2016). Pacifying Babel’s Tower: using scientometric analysis to de-stretch the concept of polycentrism. *Urban Studies* 53(6), 1278–1298
- Shelton, T., **A. Poorthuis** and M. Zook (2015). Social media and the city: using big data and critical geovisualization for urban research. *Landscape and Urban Planning* 142: 198–211
- Stephens, M., and **A. Poorthuis** (2015). Follow thy Neighbor: Connecting the Social and the Spatial Networks in Twitter. *Computers, Environment and Urban Systems* 53: 87–95

- Pfeffer, K., H. Verrest, and **A. Poorthuis** (2015). 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* 27 (4), 505-522
- 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.

Book Chapters and Other Publications

- Poorthuis, A.** (forthcoming). Big Data Visualization. *GIS&T Body of Knowledge*.
- Zook, M., T. Shelton, and **A. Poorthuis** (forthcoming). Big Data and the City. In: R. van Kempen, T. Schwaned (eds) *Handbook of Urban Geography*. Edward Elgar: London
- Zook, M. and **A. Poorthuis**. The Geography and Gaze of the Selfie (forthcoming). In: C. Lukinbeal, L. Sharp, A. Escher and E. Sommerlad (eds) *Media's Mapping Impulse*. Stuttgart: Franz Steiner Verlag
- Zook, M, **A. Poorthuis**, and R. Donohue (2017). Mapping Spaces: Cartographic Representations of Online Data. In: N. Fielding, R. Lee, G. Blank (eds) *The SAGE Handbook of Online Research Methods*. Sage: London
- Poorthuis, A.**, M. Zook, T. Shelton, M. Graham and M. Stephens (2016). Using Geotagged Digital Social Data in Geographic Research. In: N. Clifford, S. French, M. Cope, T. Gillespie (eds). *Key Methods in Geography*. Sage: London
- Poorthuis, A.** and M. Zook. (2015) Finding small stories in big data: gaining insights from large spatial point data sets. *Cityscape* 17 (1), 151
- 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.** (2013). Book Review: Networked: The New Social Operating System by Lee Rainie and Barry Wellman. *Journal of Regional Science*

Peer Reviewed Conference Papers

- Wu, X., and **A. Poorthuis**. *A Web-Based Interactive Platform for Co-Clustering Spatio-Temporal Data*. ISPRS Geospatial Week (Sep 19-20, 2017).
- Dugundji, E.R., **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)

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

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

Invited Talks

Poorthuis, A. and M. van Meeteren. *Analyzing multiscalar urbanization using network analysis: the challenges of nodalization*. Future of Urban Networks Symposium, University of Ghent. (Sep 18-20 2017).

Poorthuis, A. and M. Zook. *The Geography of the Selfie*. Media's Mapping Impulse. Johannes Gutenberg University Mainz. June 17-18 2016

Poorthuis, A. *How to Draw a Neighborhood*. ETH Future Cities Lab Singapore. February 17 2016

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. *A comparative study of urban neighborhoods using geosocial media data*. AAG Annual Meeting 2017 (April 5-9, 2017)

Shelton, T. and A. Poorthuis. *The nature of neighborhoods: using big data to rethink the geographies of Atlanta's Neighborhood Planning Unit system*. AAG Annual Meeting 2017 (April 5-9, 2017)

Poorthuis. *How to draw a neighborhood? The potential of 'big data' for understanding the perception of urban neighborhoods*. International Geographical Congress Beijing (August 21-25, 2016)

Poorthuis. *How to draw a neighborhood? The potential of 'big data' for understanding the perception of urban neighborhoods*. AAG Annual Meeting 2016 (March 29-April 2, 2016)

Meeteren van, M., and A. Poorthuis. *Recalibrating central place theory via the Geoweb*, AAG Annual Meeting 2015 (April 21-25, 2015)

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 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 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)

Courses Taught

<i>Singapore University of Technology and Design</i>	Making Maps I: Introduction to spatial analysis, data visualization and map design (Sem I 2016, Sem I 2017) Introduction to Social Science (Common Core) (Sem II 2016, Sem II 2017) Developed MSc Programme in Urban Science, Planning and Policy (2017, pending funding approval)
<i>University of Kentucky</i>	Introduction to GIS (Fall 2012, Spring 2013)
<i>University of Amsterdam</i>	Methods and Techniques of Spatial Planning (Fall 2010) Introduction to GIS (Fall 2010) Advanced GIS (Spring 2011) Advanced Network Analysis (Spring 2010, Teaching Assistant)
<i>PhD Examining</i>	External PhD Examiner, Xie Jinghan, National University of Singapore (2017)

Fellowships and Grants

- 2017-2020 “*New Urban Kampung*,” funded by the Housing and Development Board of Singapore. Co-PI.
- 2016-2017 “*Spatio-temporal Analysis and Visualization of Human Mobility in The Netherlands*,” Industry-funded by several Dutch government agencies. PI.
- 2016 “*A Virtualized High Performance Computing Cloud*,” International Design Centre SUTD-MIT. PI.
- 2015-2018 “*Big Data and the City: A framework for exploratory data analysis and visualization of complex spatial phenomena through social media data*”, PI, Start-up Grant Singapore Ministry of Education. PI.
- 2013 Prins Bernhard Cultuurfondsbeurs (research grant), The Netherlands
- 2013 Kentucky Opportunity Fellowship, University of Kentucky
- 2012 Association of Emeriti Faculty Endowed Fellowship, University of Kentucky
- 2012 Barnhart-Withington Fund Research Grant, University of Kentucky
- 2011 Kentucky Opportunity Fellowship, University of Kentucky
- 2011 Daniel R. Reedy Quality Achievement Fellowship, University of Kentucky (thru 2014)

Service Activities

Singapore University of Technology and Design

Director of Graduate Studies

Director of Innovative Digital Arts Lab (iDiA Lab)

University Committee on Research Computing

Extra-mural

Assistant Editor, Big Data & Society

Peer Review

- 2017 Big Data & Society, Geography and Environment (2x), GIS&T Body of Knowledge, ISPRS International Journal of Geo-Information (2x), Journal of Transport Geography, International Journal of GIS, Professional Geographer, Progress in Human Geography, Transactions in GIS, Transportation Research Part C
- 2016 Annals of the AAG, Journal of Urban Technology, Geography and Environment, Health and Place, New Media & Society, Plos ONE (2x), Transportation Research Part C
- 2015 Big Data & Society, Computers, Environment and Urban Systems, EPA, EPD, Geographical Analysis
- 2014 Applied Geography, Canadian Geographer, Journal of Urban Technology, Geojournal

Professional memberships

Association of American Geographers

Cartography and Geographic Information Society

International Network for Social Network Analysis

FloatingSheep.org collective