

## Dr. Alenka Poplin, PhD

Assistant Professor of Geoinformation Science and GeoDesign

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### PROFESSIONAL PREPARATION

Technical University of Ljubljana	Slovenia	Land Surveying and Spatial Planning	MSc
Clemson University	Clemson, SC	Business Administration	MBA
Vienna University of Technology	Austria	Geoinformation Science	Ph.D

### APPOINTMENTS

01/2015 – present	<b>Assistant Professor</b> , Iowa State University, Ames, Iowa, Department of Community and Regional Planning
03/2015 – 07/2015	<b>Visiting Professor</b> , Vienna University of Technology, Austria
05/2013 – 10/2014	<b>Associate Professor   Vertretungsprofessur (W2)</b> , HafenCity University Hamburg, Germany
03/2013 – 03/2014	<b>Democracy Fellow</b> , Ash Center for Democratic Governance and Innovation, Harvard Kennedy School, Cambridge, MA, USA
04/2007 – 04/2013	<b>Assistant Professor   Juniorprofessorin (W1)</b> , HafenCity University Hamburg, Germany
11/2003 - 01/2007	<b>Senior Researcher and Head of Department for Geoinformation</b> , Salzburg Research Forschungsgesellschaft m.b.H., Salzburg, Austria
01/1999 - 08/2003	<b>Research Associate, Lecturer</b> , Institute for Geoinformation, Vienna University of Technology, Vienna, Austria
06/1997 - 12/1998	<b>Researcher</b> , Institute of Geodesy, Cartography and Photogrammetry, Faculty of Architecture, Civil Engineering and Geodesy, Technical University of Ljubljana, Slovenia
09/1993 - 05/1997	<b>Deputy Director and Head of Marketing</b> , GISDATA d.o.o, Geoinformation services, technology and systems, GIS consulting company
02/1992 - 08/1993	<b>Research Associate</b> , Geodetic Research Institute, Ljubljana, Slovenia

### PUBLICATIONSPEER-REVIEWED JOURNAL PUBLICATIONS

#### Peer-reviewed journal articles

**Poplin, A.** 2018. (accepted Oct 29, 2017). Cartographies of Fuzziness: Mapping Places and Emotions, The Cartographic Journal, pages (pending).

**Poplin, A.**, Shenk, L. and U. Passe. 2018. (accepted Jan 9, 2018). Transforming Pervasive into Collaborative: Engaging Youth as Leaders with GIS through a Framework that Integrates Technologies, Storytelling, and Action, *Journal of Interaction Design & Architecture*, Special issue on Pervasive Participation – New Horizons for Citizen Involvement and User Experience, pages (pending).

**Poplin, A.** 2017. Mapping Expressed Emotions: Empirical Experiments on Power Places, Special issue: Methods and Applications of Empirical Cartography, *Journal of Cartography and Geographic Information*, Vol. 2, p. 83-91.

**Poplin, A.**, Guan, W. and B. Lewis. 2017. Online Survey of Heterogeneous Users and Their Usage of the Interactive Mapping Platform WorldMap, *The Cartographic Journal, The World of Mapping*, Volume 54, Issue 3, p. 214-232. <http://www.tandfonline.com/doi/full/10.1080/00087041.2016.1229248>.

Devisch, O., **Poplin, A.** and S. Sofronie. 2016. The Gamification of Civic Participation. Two experiments in improving the skills of citizens to reflect collectively on spatial issues, *Journal of Urban Technology*, Volume 23, Issue 2, p. 81-102.

Guan, W., **Poplin, A.** and B. Lewis. 2015. Understanding today's online GIS user through the lens of a WorldMap survey, special issue of the journal *Transactions in GIS*, Volume 19, Issue 3, p. 417–438.

**Poplin, A.** 2015. How User-Friendly are Online Interactive Maps? Survey Based on Experiments with Heterogeneous Users, *Cartography and Geographic Information Science*, Volume 42, 2015 – Issue 4, p. 358-376.

**Poplin, A.** 2014. Digital serious game for urban planning: B3 – Design your Marketplace!, *Environment and Planning B: Planning and Design*, Volume 41 (3), p. 493-511.

**Poplin, A.** 2012. Web-based PPGIS for Wilhelmsburg, Germany: an Integration of Interactive GIS-based Maps with an Online Questionnaire, Special Issue of the *Journal of Urban and Regional Information Systems Association (URISA)*, Vol. 25, No. 2, p. 71-84.

**Poplin, A.** 2012. Playful public participation in urban planning: A case study for online serious games, *Computers, Environment and Urban Systems (CEUS)*, Elsevier, Volume 36, Issue 3, May 2012, p. 195-206.

**Poplin, A.** 2010. Methodology for Measuring the Demand Geoinformation Transaction Costs: Based on Experiments in Berlin, Vienna and Zurich, *The Journal of Spatial Data Infrastructures Research*, Vol. 5, p. 168-193.

**Krek, A.** 2006. Efficient Pricing of Geomarketing Internet Services: European vs. American Approach, *International Journal of Business and Management*, February 2006, Vol. 1, ISSN 1833 – 3850.

**Krek, A.** and A. Frank. 2000. The production of geographic information – the value tree. *Geo-Informationssysteme - Journal for Spatial Information and Decision Making*, Vol. 13 (3).

### **Recent peer-reviewed book sections**

**Poplin, A.** and K. Vemuri. 2018. Spatial Game for Negotiations and Consensus Building in Urban Planning: YouPlaceIt!, book chapter in the book titled *Geogames and Geoplay - Game-based Approaches to the Analysis of Geo-Information*, Editors: O. Ahlqvist and C. Schlieder, p. 63 – 90, *Advances in Geographic Information Science*, Springer International Publishing Switzerland.

**Poplin, A.**, Kerkhove, T., Reasoner, M. and A. Roy. 2018. Serious GeoGames for civic engagement in urban planning: discussion based on four game prototypes, book chapter in the book titled *The Virtual And The Real:*

Perspectives, Practices and Applications For The Built Environment (Yamu, C., Poplin, A., Devisch, O. and G. de Roo (Editors)), p. 189 – 213, Routledge, Taylor & Francis Group, London and New York.

Lewis, B., W. Guan, and **A. Poplin**. 2017. Evaluating the Current State of Geospatial Software as a Service Platforms: A Comparison Study, in Leitner M. and J. Jokar Arsanjani (eds): *Citizen Empowered Mapping*, Springer, p. 53-84.

**Poplin, A.**, Corso, G. and M.C. Furtado Rocha. 2013. The Participatory Cube – a Framework for Analysis of Online Participation Platforms, chapter in the book: *Planning Support Systems for Sustainable Urban Development*, Springer Verlag.

**Krek, A.** 2009. Quantifying Transaction Costs of Geoinformation: Experiments in National Information Structures in Sweden and Germany, chapter in the book of the 27<sup>th</sup> Urban Data Management Symposium, Taylor & Francis, June 24-26, Ljubljana, Slovenia.

Evelpidou, N., **Krek, A.** and A. Vassilopoulos. 2009. Formalization of a GIS-Based Methodology for Landscape Change Analysis: Example of Erosion on Naxos Island, Aegean Sea, Greece, chapter in the book: Orejas, A., Mattingly, D. and M. Clavel-Lévêque (eds.), *From present to past through landscape*, Madrid CSIC-COST Press.

**Krek, A.** and N. Evelpidou. 2008. The role of geoinformation technologies in geocultural landscape research, chapter in the book: *Geoinformation Technologies for Geo-Cultural Landscape Analysis: European Perspectives*, Taylor and Francis, London, UK. Editors: Bender, O., Evelpidou, N., Krek, A. and P. A. Vassilopoulos.

**Krek, A.** 2006. Geoinformation as an Economic Good, chapter in the book: *GIS for Sustainable Development*, Editor: Michele Campagna, CRC Press Taylor & Francis Group.

Steinmann, R., **Krek, A.** and T. Blaschke. 2004a. Can online map-based applications improve citizen participation?. In: *Lecture Notes in Computer Science*, Springer Verlag, TED conference on e-government, Bozen, Italy.

**Krek, A.** 2003. Key Reduction in Transaction Cost, chapter in the book: *Geo-Information Engineering, Changing Technology in a Changing Society*, by Lemmens M., GITC publications, The Netherlands.

### **Books and edited books**

Yamu, C., **Poplin, A.**, Devisch, O. and G. de Roo. 2018. *The Virtual And The Real: Perspectives, Practices and Applications For The Built Environment*, Routledge, Taylor & Francis Group, London and New York.

**Krek, A.**, Rumor, M., S. Zlatanova, and E. Fendel (Eds.). 2009. *Urban Data Management*, Taylor and Francis, London, UK.

Bender, O., Evelpidou, N., **Krek, A.** and P. A. Vassilopoulos (Eds.). 2008. *Geoinformation Technologies for Geo-Cultural Landscape Analysis: European Perspectives*, Taylor and Francis, London, UK.

**Krek, A.** 2002. *An Agent-Based Model for Quantifying the Economic Value of Geographic Information*. GeoInfo Series, Institute for Geoinformation, Technical University Vienna.

**Krek, A.**, Radovan, D., Ivačič, M., and J. Režek. 1995. *Katalog prostorskih podatkov | Catalogue of Digital Spatial Data*, one volume: 143 pages, Ljubljana.

### **Recent peer-reviewed full conference papers**

**Poplin, A.**, Yamu, C. and L. Rico-Gutierrez. 2017. Place-making: an approach to rationale behind the location choice of power places. University campus Ames as a case study, *The International Archives of the*

Photogrammetry, Remote Sensing and Spatial Information Sciences, XLII-4/W3, 73-81, <https://doi.org/10.5194/isprs-archives-XLII-4-W3-73-2017>, 2017. <https://www.int-arch-photogramm-remote-sens-spatial-inf-sci.net/XLII-4-W3/73/2017/>.

**Poplin, A.**, Shenk, L., Krejci, C. and U. Passe. 2017. Engaging youth through spatial socio-technical storytelling, participatory GIS, agent-based modelling, online geogames and action projects, ISPRS Ann. Photogramm. Remote Sens. Spatial Inf. Sci., IV-4/W3, 55-62, <https://doi.org/10.5194/isprs-annals-IV-4-W3-55-2017>, 2017. <https://www.isprs-ann-photogramm-remote-sens-spatial-inf-sci.net/IV-4-W3/55/2017/>.

Passe, U., Anderson, N., De Brabanter, K., Dorneich, M., Krejci, C., **Poplin, A.** and L. Shenk. 2016. Methodologies for Studying Human-Microclimate Interactions for Resilient, Smart City Decision-Making, in: Proceedings of PLEA2016 Los Angeles - Cities, Buildings, People: Towards Regenerative Environments, 11-13 July, 2016, Los Angeles, USA.

Tóth, E. and **A. Poplin**. 2014. ParticiPécs – a cooperative game fostering learning about the built environment and urban planning, 17<sup>th</sup> AGILE Conference on Geographic Information Science (AGILE 2014), Workshop Geogames and Geoplay, Castellón, Spain.

Vemuri, K., **Poplin, A.** and P. Monachesi. 2014. YouPlaceIt!: a Serious Digital Game for Achieving Consensus in Urban Planning, 17<sup>th</sup> AGILE Conference on Geographic Information Science (AGILE 2014), Workshop Geogames and Geoplay, Castellón, Spain.

Reinart, B. and **A. Poplin**. 2014. Games in urban planning – a comparative study, in the proceedings of Real CORP 2014, International Conference on Urban Planning and Regional Development in the Information Society (CORP 2014), Vienna, Austria.

Tóth, E. and **A. Poplin**. 2013. Cooperative Learning Games – a Successful Tool for Promoting Children's Participation in Urban Planning?, in the proceedings of Future and Reality of Gaming (FROG) conference, Vienna, Austria.

Tóth, E. and **A. Poplin**. 2013. Pop-up Pest: An Educational Game for Active Participation of Children in Urban Planning, in the proceedings of Real CORP 2013, International Conference on Urban Planning and Regional Development in the Information Society (CORP), May 20-23, Rom, Italy.

Corso, G., Furtado Rocha, M. C. and **A. Poplin**. 2012. e-Participation: The Role of Social Media for a New Public Space, in the proceedings of The International Conference on Computational Science and Its Applications, Session: Cities, Technologies and Planning (CTP), June 18-21, Salvador, Brazil.

Kulus, D., **Poplin, A.** and R. Patwardhan. 2012. Aufbau einer partizipativen Planungscommunity am Beispiel von Nexthamburg | Creation of a participative community: on the example of Nexthamburg, in the proceedings of CORP 2012: Re-mixing the City, Towards Sustainability and Resilience?, May 14-16, Schwechat, Austria.

**Poplin, A.** 2011. Comparative Study of Different Methodologies Used for Quantifying Transaction Costs, in the proceedings of The 17<sup>th</sup> European Colloquium on Quantitative and Theoretical Geography (ECQTG 2011), September 2<sup>nd</sup>-5<sup>th</sup>, Athens, Greece.

**Poplin, A.** 2011. Games and Serious Games in Urban Planning: Study Cases, Lecture Notes in Computer Science, Springer LNCS, ICCSA 2011 proceedings, presented at the conference Cities, Technologies and Planning 2011 (CTP 2011), June 20-23, Santander, Spain.

Fessele, M. and **A. Poplin**. 2011. Quality of information collected with the help of online map-based questionnaires, in the proceedings of REAL CORP 2011, 16<sup>th</sup> International Conference on Urban Planning and Regional Development in the Information Society, GeoMultimedia 2011, May 18-20, Essen, Germany.

## **SYNERGISTIC ACTIVITIES**

- Leader of the mini-course on GeoGmaes for Civic Engagement in Urban Planning, Belo Horizonte, Brazil, December 2017
- Key-note at Geodesign for Latin America, Belo Horizonte, Brazil, December 2017
- Invited talk 2017: Data + Design = Geodesign, Harvard University, Cambridge, April 2017
- Project partner in ISU Big Data Grant proposal titled Big Data for Sustainable City Decision-Making, PI Ulrike Passe, ISU Architecture, budget awarded for the whole team: \$ 375,000.00.
- Co-organizer of the International GIS Workshop 2015, 3 credits for the Study Abroad program, in Austria, Slovenia and Italy, co-organized with Dr. Dr. Claudia Yamu from Vienna University of Technology, Austria. This workshop brings together researchers and graduate students interested in innovative technologies for civic engagement and public participation.
- Invited talk 2015: GeoVisualization and Smart Cities, Goteborg, Sweden, November 2015.
- Invited talk 2014: Smart Cities, Challenges and Limitations of the Novel Information and Communication Technologies, Hamburg City Hall, May 2014.
- Invited as an expert in e-participation. Visiting professor at the Ash Centre for Governance and Innovation, Harvard Kennedy School, Cambridge, MA, USA, March 2013 and September/October 2013.