# Rui Li – Curriculum Vitae

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## EDUCATION

**The Pennsylvania State University**                                        2012
**Ph.D.**  Department of Geography
Committee: Roger Downs; Alexander Klippel; Alan MacEachren; & Luke Zhang

**University of Saskatchewan**                                        2007
**M.A.**  Department of Geography
Supervisor: Scott Bell

**Wuhan University**                                        2005
**B.Sc.**  Department of Cartography and Geographic Information System

## EMPLOYMENT

**Department Chair (interim)**                                        2024 – present
**Associate Professor &**                                        2020-present
**Director of Master of Science in Geographic Information Science**
Department of Geography and Planning, University at Albany, USA
**Research Associate**
Center for the Elimination of Minority Health Disparities (CEMHD)
Center for Social and Demographic Analysis (CSDA)

**Assistant Professor**                                        2014-2020
Department of Geography and Planning, University at Albany, USA

**Research Associate & Substitute Professor**                                        2012-2014
Institute for Geoinformatics, University of Muenster, Germany

## PUBLICATIONS (* denotes student co-author)

*Refereed journal articles*

1. Fuest, S.* & **Li, R.** (in preparation). Structure of spatial knowledge: A comparison of sketch maps between German and American Cities. *Cartographic Perspectives.*

2. Huang, Y., Li, Y., **Li, R.**, & Zhang, K. (2024). The privilege of working from home and health disparities during the covid-19 pandemic in major American cities. *Health and Place.* DOI: /10.1016/j.healthplace.2024.103183

3. **Li, R.** (2023) Augmented reality landmarks on windshield and their effects on the acquisition of spatial knowledge in autonomous vehicles, *Journal of Location Based*

*Services*, DOI: 10.1080/17489725.2023.2238661

4. Li, Y., Huang, Y., **Li, R.**, & Zhang, K. (2023). Historical redlining and park use during the COVID-19 pandemic: Evidence from big mobility data. *Journal of Exposure Science & Environmental Epidemiology*, 1-8.

5. **Li, R.,** Erickson, D.*, Belcaid, M.*, Chinedu, M. F.*, & Akanbi, O. O.* (2023) A tale of two cities: COVID-19 vaccine hesitancy as a result of racial, socioeconomic, digital, and partisan Divides. *ISPRS International Journal of Geo-Information,* 12(4), 158.

6. Fuest, S.* & **Li, R.** (under review). Structure of Spatial knowledge: A Comparison of Sketch Maps between German and American Cities. *Annals of Association of American Geographers.*

7. Kim, A.* & **Li, R.** (2022). Perceiving Landmarks on Small Mobile Maps: Roles of Visual Variables in the Acquisition of Spatial Knowledge*. Interdisciplinary Journal of Signage and* Wayfinding, 6(2), 17-30.

8. **Li, R.** & Huang, Y. (2022). COVID-19 and Minority Health Disparities in New York City: A Spatial and Temporal Perspective. *Environment and Planning B: Urban Analytics and City Science.* doi: 10.1177/23998083221126525

9. Huang, Y. & **Li, R.** (2022). The lockdown, mobility, and spatial health disparities in COVID-19 pandemic: A case study of New York City. *Cities: The International Journal of Urban Policy and Planning. 122.* doi: 10.1016/j.cities.2021.103549

10. **Li, R.** (2021). Visualizing COVID-19 information for public: Designs, effectiveness, and preference of thematic map. *Human Behavior and Emerging Technologies.* 3(1), 97-106. doi: 10.1002/hbe2.248

11. Huang, Y. & **Li, R.** (2021). Stay-at-Home Order and Spatial Disparities in COVID-19 Pandemic in New York City. *Understanding and eliminating minority health disparities in a 21st-century pandemic: A White Paper Collection.* University at Albany, SUNY: Scholars Archive.

12. **Li, R.** & Huang, H. (2020). Staying orientated in wayfinding: A comparison of orientation between English and Mandarin speakers. Geo*Journal.* doi: 10.1007%2Fs10708-020-10242-z

13. **Li, R.** & Huang, H. (2020) Visual access formed by architecture and its influence on visitor's spatial exploration in a museum. *Interdisciplinary Journal of Signage and Wayfinding,* 4(1), 49-59. doi: 10.15763/issn.2470-9670.2020.v4.i1.a55

14. **Li, R.** (2020).  Mapping beyond the screen of mobile devices: Enhancing spatial awareness through visualized off-screen landmarks. *Annals of American Association of Geographers.* doi: 10.1080/24694452.2019.1670611

15. Schwering, A., **Li, R.**, & Anacta,V. J. A. (2017). Wayfinding through orientation. *Spatial Cognition and Computation: An Interdisciplinary Journal,* 7(4), 273-303. doi:10.1080/13875868.2017.1322597.

16. Anacta, V. J. A., Schwering, A., **Li, R.**, & Muenzer, S. (2017). Orientation information in wayfinding instructions: Evidence from human verbal and visual instructions. *GeoJournal*, 82(3), 567-583. doi:10.1007/s10708-016-9703-5.

17. **Li, R.** & Zhao J*. (2016). Resizing off-screen landmarks on mobile devices: Levels of measurement and the perception of distance. *KI - Künstliche Intelligenze (Journal on Artificial Intelligence)*, 31(2), 141-149. doi:10.1007/s13218-016-0471-7

18. **Li, R.**, & Klippel, A. (2016). Wayfinding Behaviors in Complex Buildings: The Impact of Environmental Legibility and Familiarity. *Journal of Environment and Behavior*. 48(3), 482-510. doi:10.1177/0013916514550243 (first-online version released in 2014)

19. Yang, J., Klippel, A. & **Li, R.** (2015). The cognition of change: scaling deformations in mind and spatial theories. *Journal of Cartography and Geographic Information Science*. 42(3), 224-234. doi:10.1080/15230406.2014.991425

20. **Li, R.**, Korda, A.*, Radtke, M.*, & Schwering, A. (2014).  Visualizing distant off-screen landmarks on mobile devices to support spatial orientation. *Journal of Location Based Services*. 8(3), 166-178. doi: 10.1080/17489725.2014.978825

21. Schwering, A., Wang, J. Chipofya, M., Shib, J., **Li, R.** & Broelemann, K. (2014). SketchMapia: Qualitative representations for the alignment of sketch and metric maps. *Spatial Cognition and Computation: An Interdisciplinary Journal*.  doi: 10.1080/13875868.2014.917378

22. Wang, J., & **Li, R.** (2013). An empirical study on pertinent aspects of sketch maps for navigation. *International Journal of Cognitive Informatics and Natural Intelligence*. 7(4), 26-43. doi: 10.1109/ICCI-CC.2012.6311138

23. Klippel, A., Wallgrün, J. O., Yang, J., **Li, R.**, & Dylla, F. (2012). Formally grounding spatio-temporal thinking. *Journal of Cognitive Processing*. 13(1), 1-6. doi: 10.1007/s10339-012-0451-2

24. **Li, R.**, & Klippel, A. (2012). Wayfinding in libraries: Can problems be predicted? *Journal of Map and Geography Libraries*. 8(1), 21-38. doi: 10.1080/15420353.2011.622456

25. Klippel, A., Hardisty, F., & **Li, R.** (2011). Interpreting spatial patterns: An inquiry into formal and cognitive aspects of Tobler's first law of geography. *Annals of the Association of American Geographers*. 101(5), 1011-1031. doi: 10.1080/00045608.2011.577364

26. Klippel, A., Hardisty, F., **Li, R.**, & Weaver, C. (2009). Color enhanced star plot glyphs – Can salient shape characteristics be overcome? *Journal of Cartographica*. 44(3), 217-232. doi: 10.3138/carto.44.3.217

### *Chapters in edited books*

1.  Wang J. & **Li, R.** (2018). Reassessing underlying spatial relations in pedestrian navigation: A comparison between sketch maps and verbal descriptions. In *Emerging Investigations in Artificial Life Research and Development*. IGI Global: Hershey.

2.  Bartoschek, T., Schwering, A., **Li, R.** & Muenzer, S. & Carlos, V. (2018). OriGami – A mobile geogame for spatial literacy.  In O. Ahlqvist & C. & Schlieder (Eds.), *Geogames and Geoplay: Game-based Approaches to the Analysis of Geo-Information* (pp. 37-62), Springer: Cham, Switzerland.

### *Refereed conference proceedings*

1.  **Li, R.** & Zhao, J. (2023) The Impact of Simulation Modes on Acquiring Spatial Knowledge through Augmented Reality Landmarks on Windshield**.** In  Huang, H., Van de Weghe, N., and Gartner, G.(Eds), Proceedings of the 18th International Conference on Location Based Services. LBS 2023, 20-22 November 2023, Ghent, Belgium. DOI: 10.34726/5400

2.  **Li, R.** (2022). Acquisition of spatial knowledge with augmented reality display on windshield in autonomous vehicles. In Krisp, Meng, Kumke, & Huang (Eds), Proceedings of the 17th International Conference on Location Based Services (2022). Munich, Germany.

3.  Anacta, V. J. A., **Li, R.**, Löwen, H., De Lima Galvao, M., & Schwering, A. (2018). Spatial distribution of local landmarks in route-based sketch maps. In S. Creem-Regehr, J. Schöning, & A. Klippel (Eds.), Spatial Cognition XI. Spatial Cognition 2018 (Vol. Lecture Notes in Computer Science, pp. 107-118). Cham: Springer.

4.  Wang, J. & **Li, R.** (2018). Sketch maps and verbal descriptions in structuring space. Proceedings of the 21st AGILE Conference on Geographic Information Science. Lund, Sweden.

5.  **Li, R.**, Anacta,V.J.A. & Schwering, A. (2017). Can you follow your own route directions? How familiarity and spatial abilities influence spatial performance and sketch maps. In Barkowsky T. et al (Eds) *Spatial Cognition X* (pp. 38-52). Springer: Cham, Switzerland.

6.  **Li, R.** (2016).  Effects of visual variables on the perception of distance in off-screen landmarks: Size, color value, and crispness*.* In G. Gartner & H. Huang (Eds) *Progress in Location-Based Services* (pp. 89-103) Springer: Cham, Switzerland.

7.  Fuest, S.*,* **Li, R.** & Schwering A. (2015). Navigating on web maps: Route characteristics and performance.  Proceedings of the18th AGILE Conference on Geographic Information Science. Lisbon, Portugal.

8.  Schwering, A, **Li, R.**, & Anacta, V.J.A., (2014). The use of local and global landmarks across scales and modes of transportation in verbal route instructions. Proceedings of the 2014 International Conference on Spatial Cognition. Bremen, Germany.

9.  Anacta,V.J.A, Schwering, A, & **Li, R.**  (2014) Determining hierarchy of landmarks in spatial descriptions. Proceedings of the 8th International Conference on Geographic Information Science. Vienna, Austria.

10. **Li, R.**, Fuest, S.*, & Schwering A. (2014). The effects of different verbal and route instructions on spatial orientation. Proceedings of the17th AGILE Conference on Geographic Information Science. Castellon, Spain.

11. Schwering, A, Muenzer, S. Bartoschek, T., & **Li, R.** (2014) Gamification for spatial literacy: The use of a desktop application to foster map-based competencies. Proceedings of the Workshop on Geogames and Geoplay at the 17th AGILE Conference on Geographic Information Science. Castellon, Spain.

12. Schwering A, **Li, R.**, & Anacta, V.J.A. (2013) Orientation information in different forms of route instructions. Proceedings of the 16th AGILE Conference on Geographic Information Science, Leuven, Belgium (**Best paper award**).

13. Kray, C., Fritze H., Fechner, T., Schwering, A., **Li, R**., & Anacta, V.J.A. (2013). Transitional spaces: Between indoor and outdoor spaces. In T. Tenbrink et al (Eds.), Spatial Information Theory: Proceedings of the 11th International Conference, COSIT 2013 (pp. 14-32). Springer: Berlin

14. Bartoschek, T., Schwering, A., & **Li, R**. (2013). Ori-Gami – An app fostering spatial competency development and spatial learning of children. Proceedings of the 16th AGILE Conference on Geographic Information Science, Leuven, Belgium.

15. Klippel, A., **Li, R.**, Yang, J., Hardisty, F., & Xu, S. (2012). The Egenhofer-Cohn Hypothesis: Or, Topological Relativity? In M. Raubal, A. U. Frank, & D. M. Mark (Eds.), Cognitive and Linguistic Aspects of Geographic Space - New Perspectives on Geographic Information Research (pp. 195–215). Springe: Berlin

16. **Li, R.**, Klippel, A., & Yang, J. (2011). Geographic event conceptualization: Where spatial and cognitive sciences meet. In L. A. Carlson, C. Hölscher, & T. F. Shipley (Eds.), Proceedings of the 33rd Annual Conference of the Cognitive Science Society. (pp. 3168–3173). Austin, TX: Cognitive Science Society.

17. Klippel, A., Xu, S., **Li, R.** & Yang, J. (2011) Spatial event language across geographic domains. Proceedings of the Workshop on Computational Models of Spatial Language Interpretation and Generation in conjunction with CogSci 2011, Boston, USA, July 20, 2011, Vol: 759, p. 40-47. CEUR-WS.org, ISSN 1613-0073.

18. **Li, R.**, & Klippel, A. (2010). The differences of space syntax methods on explaining wayfinding behaviors: A preliminary comparison. Proceedings of the International Conference on Spatial Cognition 2010 (pp. 58-61), Mt. Hood, OR.

19. **Li, R.**, & Klippel, A. (2010). Using formal descriptions of environments to understand wayfinding behaviors: the differences between methods. Proceedings of the workshop of Environmental Modeling: Using Space Syntax in Spatial Cognition Research held at International Conference on Spatial Cognition 2010 (pp. 93-107), Mt. Hood, Oregon

20. Klippel, A., **Li, R.**, Hardisty, F., & Weaver, C. (2010). Cognitive invariants of geographic event conceptualization: What matters and what refines? In S. I. Fabrikant, T. Reichenbacher, M. Kreveld & C. Schlieder (Eds.), Proceedings of the 6th International Conference of GIScience, Zurich, Switzerland, (pp. 130-144). Springer: Berlin

21. **Li, R.,** & Klippel, A. (2010). Using space syntax to understand knowledge acquisition and wayfinding in indoor environments. In F. Sun, Y. Wang, J. Lu, B. Zhang, W. Kinsner & L. A. Zadeh (Eds.), Proceedings of the 9th IEEE International Conference on Cognitive Informatics 2010 (pp. 302-307). Beijing, China, IEEE

22. Klippel, A., & **Li, R.** (2009). The endpoint hypothesis: A topological-cognitive assessment of geographic scale movement patterns. In K. Stewart Hornsby, C. Claramunt, M. Denis, & G. Ligozat (Eds.), Spatial Information Theory, Proceedings of 9th International Conference on Spatial Information Theory, Aber Wrac'h, France, September 21-25, 2009 Proceedings (pp. 177–194). Springer: Berlin (**Best Paper award**)

23. **Li, R.**, & Bell, S. (2009). Is the development of environmental knowledge sequential or simultaneous in human wayfinding? In R. E. Sieber (Ed.), Proceedings of the 2009 Spatial Knowledge and Information Canada Conference, (Vol. 1). Fernie, BC.

24. Klippel, A., **Li, R.**, Wu, A., & Zhang, X. (2008). Interactive, multiscale you-are-here maps. In A. Klippel & S. C. Hirtle (Eds.), You-Are-Here Maps: Creating a Sense of Place through Map-like Representations. Proceedings of the Workshop held in conjunction with the International Conference Spatial Cognition 2008, September 15-19, 2008, Freiburg, Germany (pp. 11–20).

25. **Li, R.**, & Bell, S. (2008). The order of developing environmental knowledge in human wayfinding, Proceedings of the fifth Conference on Geographic Information Science, Park City, Utah.

### *Conference presentations*

1. Li, R. (2023). Acquiring Spatial Knowledge in in Autonomous Vehicles Using Augmented Reality Landmark Display on Windshield. Presentation at the Annual Meeting of the American Association of Geographers, Denver, CO.

2. Li, R. (2022). Spatial and Temporal Disparities of COVID-19 Patterns in New York City. Poster presented at the Annual Meeting of the American Association of Geographers, New York, NY (virtual).

3. **Li, R.** & Huang, Y.* (2021). Spatiotemporal disparities of COVID-19 outcome in New York City neighborhoods: Influences of mobility, public transit, race, and social vulnerability . Poster presented at the international symposium on Geospatial approaches to combating Covid-19 at the 30th International Cartographic Conference, Florence, Italy.

4. **Li, R.** & Fuest, S.* (2021). Wayfinding Directions in U.S. and German cities: A Comparison of Qualitative Aspects in Sketch Maps for Supporting Spatial Orientation. Poster presented at the Annual Meeting of the American Association of Geographers, Seattle, WA (virtual).

5. **Li, R.** & Kim, A.* (2019). Where is upstate New York? Cognitive validation of New York's categorization of regions. Presented at the Annual Meeting of the American Association of Geographers, Washington DC.

6. Kim, A.* & **Li, R.** (2018). Visual Variables on Mobile Devices: An Empirical Investigation of Their Roles on Spatial Awareness.  Presented at the Annual Meeting of the American Association of Geographers, New Orleans, LA (**Best Student Paper & Student Travel Award**)

7. **Li, R.** (2017). Off-screen Landmarks on Mobile Devices: Interaction and Perception of Distance.  Presented at the Annual Meeting of the American Association of Geographers, Boston, MA

8. Tompkin, C.* & Li, R. (2016). Evaluation of signage placement on university campus using space syntax.  Presented at  the Annual Meeting of the Middle States Division of the American Association of Geographers. Altoona, PA. (**Best Student Paper, 2nd place**)

9. Zhao, J.* & **Li, R.** (2016). Visualizing distance objects on mobile phones: Choice of resizable icons.  Presented at the 19th Symposium on Automatic Cartography, Albuquerque, New Mexico.

10. **Li, R**. (2016) Cognitive-driven design: enriching spatial intelligence in both geospatial technologies and users.  Presented at Research Challenges for next 10 years at 2016 University Consortium of Geographic Information Science. Scottsdale, AZ.

11. **Li, R.** (2016) Environment form, familiarity, and spatial abilities on perceiving spatial descriptions: An early exploration.  Presented at the Pennsylvania & Friends Spatial Cognition Symposium. State College, PA

12. **Li, R.** & Zhao, J.* (2016) Visualizing off-screen landmarks for direction and distance on mobile devices.   Presented at the Annual Meeting of the Association of American Geographers, San Francisco, CA. **(Student Travel Award)**

13. Zhao, J.*, & **Li, R.** (2015) Using resizable icons to visualize distant landmarks on mobile devices.  Presented at the 2015 New York State Geospatial Conference. Albany, NY

14. **Li, R.,** Schwering, A., Korda A.* & Radtke, M.* (2015) Supporting cognitive wayfinding with displayed off-screen landmarks on mobile systems.  Presented at the Annual Meeting of the Association of American Geographers, Chicago, IL.

15. **Li, R.**, Klippel, A., Liben, L. S., & Christensen, A. E. (2012). Indoor spatial awareness: Impacts of environmental quality, individual differences, and mobility.   Presented at the Annual Meeting of the Association of American Geographers, New York, NY

16. Gilliam, C., **Li, R.**, Chorman, B., Yang, J., & Klippel, A. (2011). Placement of you-are-here maps: An empirical study using multiple approaches.  Presented at the annual meeting of North American Cartographic Information Society (NACIS). Madison, WI.

17. **Li, R.**, & Klippel, A. (2011). Impacts of environment, spatial abilities, and familiarity on wayfinding behaviors in buildings. Presented at the Annual Meeting of the Association of American Geographers, Seattle, WA.

18. **Li, R.** (2010). Using salient environmental characteristics to improve wayfinding and spatial awareness Presented at the Doctoral Colloquium at the International Conference on Spatial Cognition 2010, Mt. Hood, OR.

19. **Li, R.**, & Klippel, A. (2010). Making wayfinding literacy: Incorporating salient landmarks in wayfinding aids. Presented at the Annual Meeting of the Association of American Geographers, Washington D.C.

20. **Li, R.**, Klippel, A., & Andrew, P. (2009). Stuck in the stacks: Assessing and improving wayfinding in the Pattee and Paterno libraries. Presented at the SirsiDynix Northeast Regional Group Conference, University Park, PA.

21. **Li, R.** (2009). Using schematic maps to improve wayfinding in complex buildings. Presented at the doctoral colloquium held at the Conference of Spatial Information Theory, **Aber Wrac'h, France.**

22. **Li, R.**, & Klippel, A. (2009). Wayfinding behaviors in complex environment. Presented at the Annual Meeting of the Association of American Geographers. Las Vegas, NV.

23. **Li, R.** (2009). Stuck in the Stacks: Wayfinding problems in complex buildings. Presented at the Annual Meeting of Middle Sates Division of Association of American Geographers, New Paltz, NY.

24. **Li, R.**, & Bell, S. (2008). Human wayfinding strategies in an unfamiliar environment: Using different kinds of environmental knowledge. Presented at the Annual Meeting of the Association of American Geographers. Boston, MA.

25. **Li, R.** (2008). A generalization framework for cartographic multi-representation on small display: Combining cognitive approach in building feature generation. In K. C. Clarke (Ed.), Proceedings of Automatic Cartography 2008, the 17th International Research Symposium on Computer-based Cartography, September 8-11. Shepherdstown, WV: CaGIS and ESRI.

## OTHER SCHOLARLY ACTIVITIES

### *Computer software or App developed*

1. Li, R. & Lenhof, H. (2023). ARCExplorer: Albany Rural Cemetery Explorer App Development [iOS App]. Albany, NY: Department of Geography and Planning and Albany Rural Cemetery.

2. **Li, R.**, & Kappel, J. (2021). Capital Region COVID-19 Vaccination Planner [WebApp]. Capital Region COVID-19 Vaccination Task Force. Albany, NY: Capital Region Vaccine Network.

3. **Li, R.**, & Kappel, J. (2021). Capital Region Weekly Vaccination Progress Public Viewer [WebApp]. Capital Region COVID-19 Vaccination Task Force. Albany, NY: Capital Region Vaccine Network.

4. **Li, R.** (2020). New York State COVID-19 Cases Tracker [WebApp]. Department of Geography, University at Albany.

5. **Li, R.** (2019) ARCE: Albany Rural Cemetery Explorer, a cross-platform location-based services to support exploring local heritage and American history of capital region.

6. **Li, R.** (2016) Tunnel Orienter, an Android-based orientation prototype to visualize distant locations on mobile phones in UAlbany campus tunnel.

## *Invited talks*

1. *Geographic Information Science and Public Health?* Invited guest lecture given at School of Public Health, University at Albany, 2022 – 2024.

2. *What is geographic information?* Freshman Seminar given at Department of Atmospheric Science, University at Albany, 2017 – 2020.

3. *How visual variables work on mobile platform for inferring distance and direction?* Talk given at School of Resources and Environmental Science, Wuhan University, Wuhan, Hubei, China. June 12, 2018.

4. *Geospatial analysis in urban architecture design.* Talk given at the Design Academy, Sichuan Fine Arts Institute. Chongqing, China. Jun 1st, 2018.

5. *Mapping beyond the screens: Visualizing direction and distance to distant landmarks.* Keynote speech given at the 2017 GeoMundus Conference. Muenster, Germany. Nov 11, 2017.

6. *Using ArcGIS to support design in landscape and architecture design.* Talk given at the Department of Architecture Art, Sichuan Fine Arts Institute. Chongqing, China. Jun 8th, 2017.

7. *Visualizing distance of off-screen landmarks on mobile devices: Visual variables and their effects.* Talk given at Institute for Geoinforatics GI Forum. Muenster, Germany. Jun 7, 2016.

8. *Spatial information science in art design.* Talk given at the Design Academy at the Sichuan Fine Arts Institute. Chongqing, China. Dec 7, 2015

9. *Orientation wayfinding: A new paradigm of providing wayfinding instructions with landmarks.* Talk given at the Research group of Geoinformatics and Cartography at Technical University of Vienna. Vienna, Austria. Apr 23, 2014.

10. *Spatial orientation in wayfinding: Influential factors and utilization in wayfinding instructions.* Talk given at the Center for Cognitive Science Colloquium, University of Freiburg, Germany. Jan 23, 2014

11. *Impacts of architectural intelligibility and individual differences on indoor wayfinding behaviors.* Talk given at Institute for Geoinformatics GI Forum. Muenster, Germany. Oct, 2012.

12. *Why do we get lost in buildings?* Penn State Geography Coffee Hour. University Park, PA. Nov 4, 2011.

13. *Still stuck in the stacks: The factors of getting lost in libraries.* The Pennsylvania State University Pattee and Paterno Libraries Special Presentation. University Park, PA.  March 24, 2012.

14. *Stuck in the stacks: Assessing and improving wayfinding in the Pattee and Paterno Libraries' buildings.* The Pennsylvania State University Pattee and Paterno Libraries Brown Bag. University Park, PA. May 1, 2009.

## FUNDED AND PENDING PROJECTS

1. *Redlining Policy and Later-Life Mortality: An Exploratory Analysis of the Linked HRS-1940 Census Data.* Co-PI. Center for Aging and Policy Studies Pilot Grant. 2022-2023. $39, 991.

2. *Mobility and Spatial Health Disparities in the COVID19 Pandemic in New York Metropolitan Area.* Co-PI, President's COVID-19 and Minority Health Disparities Seed Funding Program, University at Albany. 2021-2022. $7, 600

3. Spatial and Social Disparities of COVID-19 outcome in New York City Neighborhood, Co-PI, Engaged Researcher Grant funded by Center for Technology in Government at University at Albany. 2020-2021. $5,720

4. *Applying GIS Technologies to Enhance History Tourism and Family Heritage Research at the Albany Rural Cemetery,* PI. Bender Family Foundation. 2018-2022. $39, 800.

5. *Transferring geospatial data into information for generating knowledge.* European Union Erasmus Mundus Program Fellowship through University of Muenster, Jul – Aug 2017 -2020. $20, 000

6. *Assessing the Changed Role of Drivers in Self-driving Vehicles and Effects of Augmented Reality Display on Windshield.* PI. Faculty Research Award Program of University at Albany, 2018-2020. $2,000

7. *Innovating navigation systems across transportation modes: Support navigation and spatial orientation through implementing landmark-based hierarchical guidance.* PI, Faculty Research Award Program of University at Albany, 2015-2017. $4,000

## TAUGHT COURSES

*State University of New York at Albany*

**GOG 592 GIS Project Development**
Spring 2022, 2021, 2020, 2019, 2018

**GOG427Y/527 USP427Y PLM527 Human Factors in Geographic Information Science**
Spring 2018, 2017, 2016, 2015

**GOG106 USP106 Introduction to Geospatial Technologies**
Spring 2022, 2021, 2020, 2019, 2018

**GOG 406/530 Topics in Geography: Technical Geography**
Spring 2017, 2016, 2015

**GOG 290 Introduction to Cartography**
Fall 2022, 2021, 2020, 2019, 2018, 2017, 2016, and 2015

**GOG498/597 USP457 PLN557 Advanced Geographic Information System**
Fall 2022, 2021, 2020, 2019, 2018, 2017, 2016, 2015, and 2014

*Institute for Geoinformatics, University of Muenster*

**Geospatial technologies: Transferring data to knowledge**
Summer 2021, 2020, 2019, 2018, 2017, and 2016

**Spatial Cognition**
Summer 2014, 2013, and 2012

**Digital Cartography**
Summer 2014 and 2013,

**Wayfinding and Navigation**
Winter 2013 and 2012

*The Pennsylvania State University*

**Mapping Our Changing World**
**Mapping Our Changing World (Online)**

**Introduction to Remote Sensing (TA)**
**Spatial Analysis (TA)**

## MENTORING

**Student supervised** (only thesis-based students listed)

*Ph.D.*
Mohammed Imaduddin Humayun (2017, University of Muenster, external disseration examiner)

*Master students*
Madison Hrysko (2022, University at Albany, thesis advisor)
Andrew Kim (2018, University at Albany, thesis advisor)

Stefan Fuest (2017, University of Muenster, thesis co-supervisor), currently Ph.D. student at University of Hannover
Yutian Feng (2016, University at Albany, thesis committee member)
Jiayan Zhao (2016, University at Albany, thesis advisor), Ph.D. received at The Pennsylvania State University in 2020.
Amichi Korda (2014, University of Muenster, thesis supervisor)
Nemanja Kostic (2014, University of Muenster, thesis supervisor)

*Undergraduate students*
Stefan Fuest (2015, University of Münster, bachelor thesis supervisor)
Marius Runde (2015, University of Münster, bachelor thesis supervisor)
Maurin Radtke (2014, University of Münster, bachelor thesis supervisor)
Jens Balmert (2014, University of Münster, bachelor thesis supervisor)
Leon Vogel (2014, University of Münster, bachelor thesis supervisor)

## Student awards received

Falon Treis (2021): Graphics Award, National Institute of Statistical Sciences SAID in Graphics Data Visualization Individual Competition

Falon Treis (2020):  **Best student paper award**, 2nd place at the Middle State Division of American Association of Geographers.

Andrew Kim (2018): **Master thesis research grant** of American Association of Geographers; **Best paper award** in Cartography Specialty Group Honors Paper Competition; **Student Travel award** in Environmental Perception and Behavioral Geography Specialty Group; **Professional deveopment award,** UAlbany Graduate Student Associatoin.

Jiayan Zhao (2016): **Master thesis research grant** received from American Association of Geographers; **Full Research Assistantship** received from The Pennsylvania State University for Ph.D.;  **Professional deveopment award,** UAlbany Graduate Student Associatoin

Carl Tompkin (2016): **Best Student paper**, 2nd place at the Middle State Division of American Association of Geographers.

Jeremy Oles & Matt Brandirchin (2015): **Honorable mention**, Blackstone Launchpad Business Plan Challenge.

## SERVICE

*Department*

**GIS Day Planning Committee, Lead,** Department of Geography and Planning, State University of New York at Albany. Fall 2021
**GIS Day Planning Committee,** Department of Geography and Planning, State University of New York at Albany. Fall 2019
**MSGIS Admission Committee,** Department of Geography and Planning, State University of New York at Albany. 2017 – present

***Lead in new undergraduate Minor in GIS,*** Department of Geography and Planning, State University of New York at Albany. Fall 2018 – Spring 2019

***Website Committee,*** Department of Geography and Planning, State University of New York at Albany. 2016 – present

***Substitute director for Undergraduate GIS Certificate Program,*** Spring 2017.

***Department Search Committee for Administrative Manager,*** Department of Geography and Planning, State University of New York at Albany. 2014

***Summer School Committee,*** Institute of Geoinformatics, University of Muenster. 2014

***GeoInformatics Graduate School Advisory Board,*** Institute of Geoinformatics, University of Muenster. 2013-2014

***Erasmus Mundus Master of Geotechnologies Advisory Board,*** Institute of Geoinformatics, University of Muenster. 2013-2014

***Department representative,*** *University Open House or Accepted Student Open House. 2014-present*

*College*

***Faculty Council & Academic Programs Committee,*** College of Arts and Science, University at Albany. 2016-2018

*University*

***The Council on Libraries, Information Systems, and Computing***, University Senate, University at Albany. Fall 2018-present

***Campus Building Naming Advisory Work Group,*** University at Albany, Fall 2018 – Spring 2019

***Selection Committee for Excellence in Librarianship Award***, University Libraries, University at Albany. Spring 2019

*State*

**GIS State Agency Advisory Committee,** New York State, Fall 2020 – present

*Professional or international organizations*

***Program Committee,*** Symposium on Location-Based Services. 2016, 2018, 2020

***Academic Advisor,*** Cartography Specialty Group, American Association of Geographers. 2016–present.

***Academic Advisor,*** Environmental Perception and Behavioral Geography Specialty Group, American Association of Geographers. 2015-present.

***Session Chair & Organizer,*** Cognition, Behavior, and Design Sessions I, II, III, IV at American Association of Geographers 2015 Annual Meeting. 2015

## AWARDS

**Honorary Award for Distinguished Community Engagement** 2022
University at Albany

**Faculty Travel Award** 2014-2017
University at Albany, State University of New York

**Best Paper Award,** the 16<sup>th</sup> AGILE (Association of Geographic Information Laboratories for Europe) Conference on Geographic Information Science Short Paper Program — 2014

**European Union Erasmus Teaching Mobility Grant** for teaching exchange at University of Jaume I, Castellon, Spain, European Commission — 2013

**Best Student Paper**, Saarinen Student Paper Competition, American Association of Geographers — 2012
**EPBG Special Group Student Travel Award,** American Association of Geographers
**Educational Technology Services Graduate Assistantship**, The Pennsylvania State University
**Honorable Mention,** College of Earth and Mineral Science Graduate Poster Exhibition, The Pennsylvania State University

**EPBG Special Group Student Travel Award,** American Association of Geographers — 2011
**Rodney Erickson Funds and Gregory Knight Fun**, Department of Geography, The Pennsylvania State University
**Penn State Geography Graduate Assistantship**

**SFB/TR8 Spatial Cognition Travel Award for Spatial Cognition 2010** University of Freiburg and University of Bremen — 2010
**Honorable Mention,** College of Earth and Mineral Science Graduate Poster Exhibition, The Pennsylvania State University
**EPBG Special Group Student Travel Award,** American Association of Geographers
**Ruby S. Miller Endowment Fund in Geography** for academic enrichment, Department of Geography, Penn State
**Penn State Geography Graduate Assistantship**

**Best Paper Award,** International Conference on Spatial Information Theory, Aber Wrac'h, France — 2009
**NextGen Research Grant,** Pattee and Paterno Libraries, The Pennsylvania State University
**EPBG Special Group Student Travel Award,** American Association of Geographers

**Ruby S. Miller Endowment Fund in Geography** for academic enrichment, Department of Geography, Penn State — 2008
**Penn State Geography Graduate Assistantship**
**Best Student Paper**, Saarinen Student Paper Competition, American Association of Geographers
**EPBG Special Group Student Travel Award,** American Association of Geographers
**Ruby S. Miller Endowment Fund in Geography** for academic enrichment, Department of Geography, Penn State
**Penn State Geography Graduate Assistantship**

**Google Summer of Code Internship,** Google                                      2007
**2nd place**, Elaine F. Bosowski Student Paper Award, Pennsylvania
Geographical Society
**Penn State Geography Graduate Assistantship**

**Graduate Teaching Fellowship,** University of Saskatchewan              2005-2006
**Graduate Teaching Scholarship,** University of Saskatchewan

**University of Scholarship,** Wuhan University                                    2002-2005

## PROFESSIONAL AFFILIATIONS

Memberships
   American Association of Geographers (2007-present)
   Canadian Association of Geographers (2005-2006)

## LANGUAGE SKILLS

Proficient:  English, Chinese (Madarin)
Upper Intermediate: German

Updated Oct 2022