

# Levente Juhász

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Geographic Information Systems (GIS) Center  
Florida International University  
1120 SW 8th St, GL-275D, Miami, FL 33199, USA  
+1 (305) 348 - 6444 | [ljuhasz@fiu.edu](mailto:ljuhasz@fiu.edu) | [Google Scholar](#) | [ResearchGate](#) | [ORCID](#)

## EDUCATION

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**Ph.D. Geomatics.** 2018. University of Florida, Gainesville, FL USA

**Dissertation:** *Investigating User Contribution Patterns to Novel Volunteered Geographic Information Platforms.* Advisor: Hartwig H. Hochmair

**MSc Geography - Geoinformatics.** 2013. University of Szeged, Hungary

**BSc Geography - Geoinformatics.** 2011. University of Szeged, Hungary

**Languages** - English (fluent), Hungarian (native), Spanish (conversational)

## EMPLOYMENT

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### Administrative appointments at Florida International University (FIU)

2023 - present     **Assistant Director of GIScience**, Geographic Information Systems (GIS) Center

2022 - 2023       **Director** (Interim), GIS Center

### Academic ranks held at FIU

2022 - present     **Research Assistant Professor**

2019 - 2022       **Research Associate (12-month faculty)**

### Other affiliation at FIU

2023 - present     **Adjunct Faculty**, School of International & Public Affairs (Teaching faculty: MA in Global Affairs)

2020 - present     **Courtesy Faculty**, Dept. of Earth & Environment (doctoral advisor status, Teaching faculty: PSM Environmental Policy & Management)

### Previous experience (\* denotes industry, non-academic position)

2014 - 2018       **Research Assistant**, University of Florida, Ft. Lauderdale Research & Education Center (Geomatics Sciences)

2018               **Visiting Scientist**, Carinthia University of Applied Sciences, Geoinformation Technology. Villach, Austria

2015 - 2017\*      **Data Scientist**, Mapillary (now acquired by Meta). Part-time, remote

2014               **Visiting Scientist**, Joint Research Centre of the European Commission, Digital Earth & Reference Data Unit. Ispra, Italy

2011 - 2014       **Research Assistant**, University of Szeged, Dept. of Physical Geography & Geoinformatics. Szeged, Hungary

2013 - 2014\*      **GIS Developer**, Compet-Terra Consulting. Szeged, Hungary

## PUBLICATIONS

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1. **Juhász, L.**; Xu, J.; Parkinson, R.W. (2023). Beyond the Tide: A Comprehensive Guide to Sea Level Rise Inundation Mapping using FOSS4G. *Geomatics*. 3(4), pp. 522-540. doi: [10.3390/geomatics3040028](https://doi.org/10.3390/geomatics3040028)
2. Mooney, P., Cui, W., Guan, B., **Juhász, L.** (2023). Towards Understanding the Geospatial Skills of ChatGPT: Taking a Geographic Information Systems (GIS) Exam. In *6th ACM SIGSPATIAL International Workshop on AI for Geographic Knowledge Discovery (GeoAI '23), November 13, 2023, Hamburg, Germany*. ACM, New York, NY, USA. doi: [10.1145/3615886.3627745](https://doi.org/10.1145/3615886.3627745)
3. **Juhász, L.**, Mooney, P., Hochmair, H.H., Guan, B. (2023). ChatGPT as a mapping assistant: A novel method to enrich maps with generative AI and content derived from street-level photographs. *Spatial Data Science Symposium 2023 Paper Proceedings*. UC Santa Barbara Center for Spatial Studies. doi: [10.25436/E2ZW27](https://doi.org/10.25436/E2ZW27)
4. **Juhász, L.**, Hochmair, H.H. (2023). Spatial and Temporal Analysis of Location and Usage of Public Electric Vehicle Charging Infrastructure in the United States. *GI\_Forum*. 11(1), pp. 83-100. doi: [10.1553/giscience2023\\_01\\_s83](https://doi.org/10.1553/giscience2023_01_s83)
5. Schrick-Matthews, A., Hochmair H.H., Sternikova, D., **Juhász, L.** (2023). Bicycle Trips in Endomondo, Google Maps, and MapQuest: A Comparison between South Florida and North Holland. *Transportation Letters*.15(4), pp. 308-320. doi: [10.1080/19427867.2022.2050494](https://doi.org/10.1080/19427867.2022.2050494)
6. **Juhász, L.**, Mooney, P. (2022). "I think I discovered a military base in the middle of the ocean" - Null Island, the most real of fictional places. *IEEE Access*. 10. pp. 84147-84165. doi: [10.1109/ACCESS.2022.3197222](https://doi.org/10.1109/ACCESS.2022.3197222)
7. Hochmair, H.H., Benjamin, A., Gann, D., **Juhász, L.**, Olivas, P., Fu, Z.J. (2022). Change Analysis of Urban Tree Canopy in Miami-Dade County. *Forests*. 13(6): 949. doi: [10.3390/f13060949](https://doi.org/10.3390/f13060949)
8. Grinberger, A.Y., Minghini, M., **Juhász, L.**, Mooney, P., Yeboah, G. (2022). Bridges and Barriers: An Exploration of Engagements of the Research Community with the OpenStreetMap Community. *ISPRS International Journal of Geo-Information*. 11(1): 54. doi: [10.3390/ijgi11010054](https://doi.org/10.3390/ijgi11010054)
9. Mooney, P., & **Juhász, L.** (2022). Null Island - a node of contention in OpenStreetMap. In: Minghini, M., Liu, P., Li, H., Grinberger, A.Y., & Juhász, L. (Eds.). *Proceedings of the Academic Track at State of the Map 2022*. (pp. 23-25). Florence, Italy, 19-21 August 2022. doi: [10.5281/zenodo.7004488](https://doi.org/10.5281/zenodo.7004488)
10. Fu, Z., **Juhász, L.**, Krefft, J., Ter-Ghazaryan, D., Guan, B. (2022). Library-Based Data Curation, Management and Interdisciplinary Research at Florida International University: Reciprocal Use of Data through Collaboration. *Proceedings of the 42nd IAUTL Conference*. Miami, FL
11. Mooney, P., Grinberger, A. Y., Minghini, M., Coetzee, S., **Juhász, L.**, & Yeboah, G. (2021). OpenStreetMap Data Use Cases During the Early Months of the COVID-19 Pandemic. In: Rajabifard, Foliente & Paez (Eds.), *COVID-19 Pandemic, Geospatial Information, and Community Resilience – Global Applications and Lessons*. CRC Press (Taylor & Francis) (pp. 171-185) doi: [10.1201/9781003181590-15](https://doi.org/10.1201/9781003181590-15)
12. Kovacs-Györi, A., Ristea, A., Havas, C., Mehaffy, M., Hochmair, H., Resch, B., **Juhász, L.**, Lehner, A., Ramasubramanian, L., Blaschke, T. (2020). Opportunities and challenges of geospatial analysis for promoting urban livability in the era of big data and machine learning. *ISPRS International Journal of Geo-Information*. 9(12): 752. ; doi: [10.3390/ijgi9120752](https://doi.org/10.3390/ijgi9120752)
13. **Juhász, L.** (2021). Towards understanding the temporal accuracy of OpenStreetMap: A quantitative experiment. In: Minghini, M., Ludwig, C., Anderson, J., Mooney, P., Grinberger, A.Y., (Eds.). *Proceedings of the Academic Track at the State of the Map 2021* (pp. 19-22). Online Conference, doi: [10.5281/zenodo.5112236](https://doi.org/10.5281/zenodo.5112236)

14. Spiegelhalter, T., **Juhász, L.**, Namuduri, S. (2021). Genetic Water-Energy-Food Nexus Design Research for Miami's Greater Islands – Climate Resilient Urban Nexus Choices (CRUNCH). *Proceedings of the 27th World Congress of Architects*. Vol. 2. (pp. 994 – 998). Rio de Janeiro, Brazil.
15. **Juhász, L.**, Hochmair, H.H., Aguilar de Santana, S., Fu, Z. (2020). Sea Level Rise Impact Assessment Tool – A Web-Based Application for Community Resilience in Coral Gables, Florida. *International Journal of Spatial Data Infrastructures Research*. 15(1): pp. 36-55. doi: [10.2902/1725-0463.2020.15.art2](https://doi.org/10.2902/1725-0463.2020.15.art2)
16. Mooney, P., **Juhász, L.** (2020). Mapping COVID-19: How online maps contribute to the infodemic. *Dialogues in Human Geography*. 10(2): pp. 265 - 270 . doi: [10.1177/2043820620934926](https://doi.org/10.1177/2043820620934926)
17. **Juhász, L.**, Novack, T., Hochmair, H.H., Qiao, S. (2020). Cartographic Vandalism in the Era of Location-Based Games—The Case of OpenStreetMap and Pokémon GO. *ISPRS International Journal of Geo-information*. 9(4): 197. doi: [10.3390/ijgi9040197](https://doi.org/10.3390/ijgi9040197)
18. **Juhász, L.**, Hochmair H.H. (2020). Studying Spatial and Temporal Visitation Patterns of Points of Interest Using SafeGraph Data in Florida. *GI\_Forum*. 8(1): pp. 119-136. doi: [10.1553/giscience2020\\_01\\_s119](https://doi.org/10.1553/giscience2020_01_s119)
19. Spiegelhalter, T., Andia, A., **Juhász, L.**, Namuduri, S. (2020). Generative and Synthetic Biological Design Imaginations for the Miami Bay Area. In: Werner, L.C., Koering, D. (Eds.) *Anthropologic – Architecture and Fabrication in the cognitive age – Proceedings of the 38<sup>th</sup> International Online Conference on Education and Research in Computer Aided Architectural Design in Europe* (pp. 11-20) Berlin: eCAADe
20. Mohammad, M.H., **Juhász, L.**, Southworth, J. (2019). Mapping Time-Space Brickfield Development Dynamics in Peri-Urban Area of Dhaka, Bangladesh. *ISPRS International Journal of Geo-Information*. 8(10):447. doi: [10.3390/ijgi8100447](https://doi.org/10.3390/ijgi8100447)
21. **Juhász, L.**, Hochmair, H.H. (2019). Comparing the Spatial and Temporal Activity Patterns between Snapchat, Twitter, and Flickr in Florida. *GI\_Forum*. 7(1): pp. 134-147. doi: [10.1553/giscience2019\\_01\\_s134](https://doi.org/10.1553/giscience2019_01_s134)
22. Matthews, A., Hochmair, H.H., Strelnikova, D., **Juhász, L.** (2019). Comparing the Characteristics of Bicycle Trips between Endomondo, Google Maps, and MapQuest. *Transportation Research Board – 98th Annual Meeting*, Washington, D.C.
23. Grinberger, A.Y., Minghini, M., **Juhász, L.**, Mooney, P., Yeboah, G. (2019). Bridging the Map? Exploring Interactions between the Academic and Mapping Communities in OpenStreetMap. In: Minghini, M., Grinberger, A.Y., Juhász, L., Yeboah, G., Mooney, P. (Eds.). *Proceedings of the Academic Track at the State of the Map 2019* (pp. 1-2). Heidelberg, Germany, 21-23 September, 2019. doi: [10.5281/zenodo.3408639](https://doi.org/10.5281/zenodo.3408639)
24. Hochmair, H.H., **Juhász, L.** (2019). Analysis of Flickr, Snapchat, and Twitter use for the modeling of visitor activity in Florida State Parks. In: Kyriakidis, P., Hadjimitsis, D., Skarlatos, D. & Mansourian, A. (Eds.) *Accepted Short Papers and Posters from the 22nd AGILE Conference on Geo-information Science*. Cyprus University of Technology 17-20 June 2019, Limassol, Cyprus
25. **Juhász, L.**, Hochmair, H.H., Qiao, S., Novack, T. (2019). Exploring the Effects of Pokémon Go Vandalism on OpenStreetMap. In: Minghini, M., Grinberger, A.Y., Juhász, L., Yeboah, G., Mooney, P. (Eds.). *Proceedings of the Academic Track at the State of the Map 2019* (pp. 3-4). Heidelberg, Germany, 21-23 September, 2019. doi: [10.5281/zenodo.3386533](https://doi.org/10.5281/zenodo.3386533)
26. **Juhász, L.**, Hochmair, H.H. (2018). OSM Data Import as an Outreach Tool to Trigger Community Growth? A Case Study in Miami. *ISPRS International Journal of Geo-Information*. 7 (3): 113. doi: [10.3390/ijgi7030113](https://doi.org/10.3390/ijgi7030113)
27. Hochmair, H.H., **Juhász, L.**, and Cvetojevic, S. (2018). Data Quality of Points of Interest in Selected Mapping and Social Media Platforms. In: Kiefer P., Huang H., Van de Weghe N., Raubal M. (Eds.)

- Progress in Location Based Services 2018. LBS 2018. Lecture Notes in Geoinformation and Cartography* (pp. 293-313) Berlin: Springer. doi: [10.1007/978-3-319-71470-7\\_15](https://doi.org/10.1007/978-3-319-71470-7_15)
28. Juhász, L., Hochmair, H.H. (2018). Cross-checking user activities in multiple geo-social media networks. In: Mansourian, A., Pilesjö, P., Harrie, L., & von Lammeren, R. (Eds.) *Geospatial Technologies for All : Short papers, posters and poster abstracts of the 21th AGILE Conference on Geographic Information Science*. Lund University 12-15 June 2018, Lund, Sweden
  29. Juhász, L., Hochmair, H.H. (2018). Analyzing the spatial and temporal dynamics of Snapchat. *VGI-ALIVE Pre-Conference Workshop at AGILE 2018*. 12 June 2018. Lund, Sweden.
  30. Juhász, L., Hochmair, H.H. (2017). Where to catch 'em all? – a geographic analysis of Pokémon Go locations. *Geo-spatial Information Science*. 20(3): pp. 241-251. doi: [10.1080/10095020.2017.1368200](https://doi.org/10.1080/10095020.2017.1368200)
  31. Juhász, L., Hochmair, H.H. (2017). How do volunteer mappers use crowdsourced Mapillary street level images to enrich OpenStreetMap? In: Bregt, A., Sarjakoski, T., Lammeren, R. van, Rip, F. (Eds.) *Societal Geo-Innovation : short papers, posters and poster abstracts of the 20th AGILE Conference on Geographic Information Science*. Wageningen University & Research 9-12 May 2017, Wageningen, The Netherlands
  32. Juhász, L., Rousell, A., Jokar Arsanjani, J. (2016). Technical Guidelines to Extract and Analyze VGI from Different Platforms. *Data*. 1(3):15. doi: [10.3390/data1030015](https://doi.org/10.3390/data1030015)
  33. Cvetojevic, S., Juhász, L. and Hochmair H.H. (2016). Positional Accuracy of Twitter and Instagram Images in Urban Environments. *GI\_Forum*, 4(1): pp. 191-203. doi: [10.1553/giscience2016\\_01\\_s191](https://doi.org/10.1553/giscience2016_01_s191)
  34. Juhász, L., Hochmair, H.H. (2016). User Contribution Patterns and Completeness Evaluation of Mapillary, a Crowdsourced Street Level Photo Service. *Transactions in GIS*. 20 (6): pp. 925–947 doi: [10.1111/tgis.12190](https://doi.org/10.1111/tgis.12190)
  35. Juhász, L., Hochmair, H.H. (2016). Cross-linkage between Mapillary Street Level Photos and OSM Edits. In: T. Sarjakoski, M. Y. Santos, L. T. Sarjakoski (Eds.), *Geospatial Data in a Changing World – Lecture Notes in Geoinformation and Cartography* (pp. 141-156). Berlin: Springer. doi: [10.1007/978-3-319-33783-8\\_9](https://doi.org/10.1007/978-3-319-33783-8_9)
  36. Juhász, L., Podolcsák, Á., Dolleschall, J. (2016). Open Source Web GIS Solutions in Disaster Management – with Special Emphasis on Inland Excess Water Modeling. *Journal of Environmental Geography*, 9 (1–2): pp. 15–21. doi: [10.1515/jengeo-2016-0003](https://doi.org/10.1515/jengeo-2016-0003)
  37. Juhász, L., Hochmair, H.H. (2015). Exploratory Completeness Analysis of Mapillary for Selected Cities in Germany and Austria. *GI\_Forum*. 3(1): pp. 535-545. doi: [10.1553/giscience2015s535](https://doi.org/10.1553/giscience2015s535)

#### **Other publications and technical reports (not peer-reviewed)**

1. Grinberger, A.Y., Liu, P., Li, H., Juhász, L., & Minghini, M. (2022). OpenStreetMap, beyond just Data: The Academic Track at State of the Map 2022 (Editorial). In: Minghini, M., Liu, P., Li, H., Grinberger, A.Y., & Juhász, L. (Eds.). *Proceedings of the Academic Track at State of the Map 2022*, Florence, Italy, 19-21 August 2022. doi: [10.5281/zenodo.7004424](https://doi.org/10.5281/zenodo.7004424)
2. Grinberger, A.Y., Minghini, M., Juhász, L., Yeboah, G., Mooney, P. (2022). Editorial: OSM Science – the Academic Study of the OpenStreetMap Project, Data, Contributors, Community, and Applications. *ISPRS International Journal of Geo-Information*. 11(4): 230. doi: [10.3390/ijgi11040230](https://doi.org/10.3390/ijgi11040230)
3. Hochmair, H. H., Benjamin, A., Gann, D., Juhász, L., Olivas, P. C., & Fu, Z. (2021). Miami-Dade County Urban Tree Canopy Analysis. Final report prepared for Miami-Dade County and American Forests. doi: [10.25148/GIS.009116](https://doi.org/10.25148/GIS.009116)
4. Minghini, M., Coetzee, S., Grinberger, A.Y., Yeboah, G., Juhász, L., Mooney, P. (2020) Editorial: OpenStreetMap research in the COVID-19 era. In: Minghini, M., Coetzee, S., Juhász, L., Yeboah,

- G., Mooney, P., & Grinberger, A. Y. (Eds.). *Proceedings of the Academic Track at the State of the Map 2020*. Online Conference, July 4-5, 2020. doi: [10.5281/zenodo.3922054](https://doi.org/10.5281/zenodo.3922054)
5. Szatmári, J., Kovács, F., van Leeuwen, B., Tobak, Z., Mezősi, G., Mucsi, L., **Juhász, L.**, Huszár, T., Kitka, G. (2014) Térinformatika a katasztrófavédelem szolgálatában (GIS for disaster management). In: Márkus, B (Ed.) *Térinformatika 2014: 20 éves a Térinformatika Tanszék*. (pp. 375-390) Székesfehérvár, Hungary (In Hungarian)

### **Datasets & Software**

1. **Juhász, L.** (2023). HomeRangeToolbox: v0.1 (ArcGIS Pro Toolbox to Compute Home-Ranges). Archived on Zenodo. doi: [10.5281/zenodo.7527682](https://doi.org/10.5281/zenodo.7527682)
2. Hochmair, H.H., Benjamin, A., Gann, D., **Juhász, L.**, Olivas, P. & Fu, Z. (2021). Miami-Dade County Land Cover Map. *FIU Research Data Portal*. doi: [10.34703/gzx1-9v95/HK3EJK](https://doi.org/10.34703/gzx1-9v95/HK3EJK)
3. Hochmair, H.H., Benjamin, A., Gann, D., **Juhász, L.**, Olivas, P. & Fu, Z. (2021). Areal Statistics of Urban Tree Canopy for the Miami-Dade Urban Area 2020. *FIU Research Data Portal*. doi: [10.34703/gzx1-9v95/1WWUEM](https://doi.org/10.34703/gzx1-9v95/1WWUEM)

### **Edited Volumes**

1. Minghini, M., Liu, P., Li, H., Grinberger, A.Y., & **Juhász, L.** (Eds.). *Proceedings of the Academic Track at State of the Map 2022*, Florence, Italy, 19-21 August 2022. Available at <https://zenodo.org/communities/sotm-22>
2. Minghini, M., Coetzee, S., Grinberger, A.Y., **Juhász, L.**, Yeboah, G., Mooney, P. (Eds.). *Proceedings of the Academic Track at the State of the Map 2020*. Online Conference, July 4-6, 2020
3. Minghini, M., Grinberger, A.Y., **Juhász, L.**, Yeboah, G., Mooney, P. (Eds.). *Proceedings of the Academic Track at the State of the Map 2019*. Heidelberg, Germany, September 21-23, 2019

## **RESEARCH GRANTS AND OTHER PROJECTS**

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### **Externally funded projects**

2023 - 2024	<b>National Park Service.</b> <i>Detection of bird nests using deep learning to support annual colonial bird monitoring efforts within Biscayne National Park.</i> \$40,000. (PI)
2022 - 2024	<b>Miami-Dade County Metropolitan Planning Organization.</b> <i>Transportation Outreach Planner (TOP) Phase IV.</i> \$120,000. (Co-PI)
2022 - 2023	<b>Environmental Protection Agency.</b> <i>Enhancing Living Shoreline Suitability Analysis to Optimize Resilience to Future Sea-Level Rise.</i> \$325,000. (Co-PI)
2020 - 2022	<b>Miami-Dade County Metropolitan Planning Organization.</b> <i>Transportation Outreach Planner (TOP) Phase III.</i> \$110,000. (Co-PI)
2020 - 2021	<b>Miami-Dade County, American Forests,</b> sub-award from <i>University of Florida.</i> <i>Miami-Dade Urban Tree Canopy Detection and Change Analysis.</i> \$22,000. (FIU PI)
2018	<b>University of Florida.</b> <i>Distance Education Minigrant for Geomatics Reusable Learning Object Development.</i> \$2,400. (Co-PI)

### **Other funding received (internal projects, scholarships, etc.)**

2023	<b>FIU Herbert Wertheim College of Medicine.</b> <i>Development of a novel multi-criteria hospital site selection framework to improve access to healthcare services in vulnerable communities in South Florida.</i> \$10,300.
2018	<b>Austrian Marshall Plan Scholarship.</b> <i>Transatlantic Research support to visit Carinthia University of Applied Sciences.</i> \$8,000

- 2016 **University of Florida. IFAS Travel Grant.** \$200
- 2015 **ESRI Travel Grant.** \$450
- 2014 **CAMPUS Hungary. Mobility Scholarship to conduct research at JRC Ispra, Italy.** \$3,500

**Consulting & Other project participation**

- 2023 **Miami Herald.** *Developing methodology to process and analyze geospatial data of publicly-funded tree planting and removal project*
- 2022 - 2023 **FIU Herbert Wertheim College of Medicine.** *Characterizing the impact of NeighborhoodHELP on COVID-19 related outcomes - Geospatial modeling*
- 2020 - present **FIU Jack G. Gordon Institute for Public Policy.** *Geospatial technology + Data science Lead for “Security Research Hub” project funded by U.S. Southern Command & Jack D. Gordon Institute for Public Policy*
- 2020 **University of Florida.** *“Spatial analysis and geovisualization with Python” - Reusable Learning Material development*
- 2019 - 2021 **FIU Architecture.** *Geospatial consultant for “Climate Resilient Urban Nexus Choices (CRUNCH)”*
- 2019 **University of Florida.** *“Web mapping technologies” - Reusable Learning Material development*

**HONORS & AWARDS**

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- 2020 Best paper of 2020 (“Cartographic Vandalism in the Era of Location-Based Games”) Nominated for Jack Dangermond Award by *ISPRS Int. J. of Geo-Inf.*
  - 2019 - 2020 Best Cover Story Award (2019 – 2020) for the story “Cartographic Vandalism in the Era of Location-Based Games” by *ISPRS International Journal of Geo-Information*
  - 2019 Outstanding Reviewer Award by *ISPRS International Journal of Geo-Information*
  - 2018 Best Analytical Poster Award. South Florida GIS Expo, West Palm Beach, FL
  - 2017 Outstanding Merit Award. University of Florida CALS. Gainesville, FL
  - 2016 3rd place - Best Full Paper Award, AGILE 2016. Helsinki, Finland
  - 2015 - 2018 Certificate of Outstanding Academic Achievement for maintaining 4.0 GPA. University of Florida International Center.

**TEACHING**

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- 2023 **GIS in Surveillance, Intelligence, and International Relations (GEOINT),** graduate level, Florida International University
  - 2020 - present **Environmental GIS.** graduate level, Florida International University
  - 2016, 2018 **GIS Programming & Customization.** Graduate level, University of Florida. Teaching Assistant
  - 2013, 2014 **Spatial Data Acquisition and Surveying.** Undergraduate level, University of Szeged. Teaching Assistant
  - 2013 **Introduction to Geographic Information Systems (lab).** Undergraduate level, University of Szeged. Teaching Assistant

**Short courses developed & taught**

- 2022 **Next Generation Geospatial Data Management with PostgreSQL/PostGIS** 2-day

2021, 2022 intensive workshop. Florida International University  
**Working with Volunteered and Crowdsourced Geographic Information (V&CGI).**  
2-week e-learning course. European Spatial Data Research (EuroSDR) EduServ initiative. Co-instructor: P. Mooney (Maynooth University)

### Guest lectures

1. **Open Source Geographic Information Systems.** *Course: Surveillance, Intelligence and International Relations. FIU, Steven J. Green School of International and Public Affairs. Miami, FL. Instructor: Ter-Ghazarian (4/8/2021)*
2. **Open Source geospatial scripting.**  
*Course: GIS Programming & Customization. University of Florida, Geomatics Program. Gainesville, FL. Instructor: Hochmair (12/4/2020)*
3. **Advanced Python libraries for spatial analysis.**  
*Course: GIS Programming & Customization. University of Florida, Geomatics Program. Gainesville, FL. Instructor: Hochmair (11/20/2020)*
4. **Web mapping – Building interactive web maps with JS libraries.**  
*Course: Digital Mapping. University of Florida, Geomatics Program. Gainesville, FL. Instructor: Hochmair. (11/01/2019)*
5. **Introduction to Web mapping – Protocols and Standards.**  
*Course: Digital Mapping. University of Florida, Geomatics Program. Gainesville, FL. Instructor: Hochmair. (10/25/2019)*
6. **PostGIS for storing, processing and analyzing social media data and Volunteered Geographic Information.**  
*Course: Next Generation Data Management in Movement Ecology. University of Florida, Dept. of Wildlife Ecology and Conservation. Instructor: Basille. Davie, FL [\[link\]](#) (6/6/2016)*

### Invited talks and panel discussions

1. **“Utilizing Large Language Models in Geographic Contexts - Experiences from the FIU GIS Center”.** South Florida GIS Expo. West Palm Beach, FL (08/22/2023) [\[link\]](#)
2. **“AI, Higher Ed, and Libraries”** (Panelist), Florida International University
3. **Drawn by the Neogeography Revolution.** Új Földrajzi Forradalom. GIS Day. University of Szeged, Hungary. (in Hungarian). (11/17/2021)
4. **Understanding Visitation Patterns to POIs During a Natural Disaster.** Placekey Community Seminar Series. Placekey Community Research Seminars. Online [\[link\]](#) (5/18/2021)
5. **#FloodTrackerMIA - A Data-Driven Approach to Increase Resilience to Coastal Flooding in the Greater Miami Area.** Knowledge Graphs in Action: DBpedia, Linked Geodata and Geo-information Integration. Online conference [\[link\]](#) (10/6/2020)
6. **The good, the bad and the ugly: Different angles of scholarly peer-review.** FIU Libraries Peer Review Symposium. Miami, FL [\[link\]](#) (6/4/2020)
7. **The Development of the Integrated Decision Support System (IDDS).** Climate Resilient Urban Nexus CHoices (CRUNCH) Progress Meeting. Miami, FL (Online). (5/2/2020)
8. **Coral Gables Sea Level Rise Impact Planning Tool.** South Florida Water Management District. West Palm Beach, FL (12/19/2019)
9. **Data-Driven Sea Level Rise Applications.** South Florida GIS Expo. West Palm Beach, FL (08/22/2019)
10. **How do we use different (geo-)social media services?** GIScience Lecture Series. Carinthia University of Applied Sciences. Villach, Austria [\[link\]](#) (6/5/2018)

11. **Analyzing individual user activities in multiple geo-social media and mapping platforms.** VGI and Social Media for the Urban Context Mini-Conference. University of Salzburg. Austria (5/4/2018)
12. **Building the community in South Florida.** State of the Map US 2017. University of Colorado, Boulder. Boulder, CO (10/20/2017)
13. **Analyzing Mapillary, a crowdsourced street level photo service.** Broward County GIS Group meeting. Fort Lauderdale, FL (7/25/15)

## STUDENT ADVISING AND MENTORING

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### Graduate student advising

- Tendai Gwanzura (2022 - ongoing). PhD in Epidemiology, committee member. *Topic: Identifying individual and community factors associated with high COVID-19 incidence and mortality rates among people with HIV*

### Other mentoring & supervision of internships

- Don Daxton, Fall 2023 - present (BS Environmental Engineering)
- Leila Camplone, Fall 2023 - present (BS Crime Science)
- Flora Beleznyay, Spring 2023 - Summer 2023 (BS Environmental Science)
- Mei Hamaguchi, Fall 2022 - Summer 2023 (BS Environmental Science)
- Krystle Barnes, Fall 2022 (BS Environmental Science)
- Jesse Velazquez, Fall 2022 (BS Biology)
- Tatiana Summerall, Spring 2022 – Fall 2022 (BS Computer Science)
- Emily Herrera, Summer 2021 (PSM Environmental Policy & Management)
- Mariangelica Banasco, Summer 2020 (PSM Environmental Policy & Management)
- Samantha Morejon, Summer 2020 (PSM Environmental Policy & Management)
- Adeola Kolapo-Oluwo, Summer 2020 (PSM Environmental Policy & Management)

## SERVICE

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### Service to profession

- Member, Scientific Committee, OSMScience 2023 Conference (@ SotM EU). Antwerp, Belgium
- Member, Scientific Committee, State of the Map 2022. Florence, Italy. 2022 August 19 - 21
- Co-Chair, Academic Track at State of the Map 2020. Cape Town, South Africa (moved Online). 2020 July 3-5
- Co-chair, Academic Track at the State of the Map 2019. Heidelberg, Germany. 2019 September 14-16
- Co-chair: VGI HATcH: Using Volunteered Geographic Information for Help and Assistance in Transport and Humanitarian operations. 22nd AGILE Conference on Geo-information Science. Cyprus University of Technology, Limassol, Cyprus (Canceled) (2019)
- Local organizing team member: LINK-VGI: LINKing and analyzing Volunteered Geographic Information (VGI) across different platforms. 19th AGILE Conference on Geographic Information Science. University of Helsinki, Helsinki, Finland (2016)
- Special Issue guest editor: Advances in Social Network Analysis – Spatio-Temporal and Semantic Methods (ISPRS International Journal of Geo-Information) (with Hochmair and Resch)

- Special Issue guest editor: OpenStreetMap as a multi-disciplinary nexus: Perspectives, Practices, and Procedures (ISPRS International Journal of Geo-Information) (with Minghini, Grinberger, Mooney, and Yeboah)
- Special Issue guest editor: Advances in AI-Driven Geospatial Analysis and Data Generation (ISPRS International Journal of Geo-Information) (with Hochmair & Li)
- Manuscript reviewer for: *Transactions in GIS*, *The Professional Geographer*, *Open Geospatial Data*, *Software and Standards*, *Remote Sensing*, *ISPRS International Journal of Geo-Information*, *Urban Science*, *PLOS ONE*, *International Journal of Spatial Data Infrastructures Research*, *GEOProcessing 2019 Conference*, *ISPRS Congress 2020, 2021*, *Geo-spatial Information Science*, *International Journal of Applied Earth Observation and Geoinformation*, *International Health*, *Journal of Spatial Information Science*, *European Journal of Geography*, *Energy Research & Social Science*

### **Institutional service**

- Ad-Hoc Committee to Revise Faculty Evaluation Methods, FIU Libraries, Member (2023 - present)
- Dean's Technology Development Task Force, FIU Libraries, Member (2022 - 2023)
- Search Committee "Application Developer II", FIU Libraries, Member (2022)
- Peer-Review & Research Committee, FIU Libraries, Member (2021 – 2022)
- Search Committee "Geospatial Web Developer II", FIU Libraries, Member (2021)
- Search Committee "Cloud Engineer", FIU Libraries, Member (2021)
- GIS Advisory Committee, Member (2020 – present)
- Merit Committee, FIU Libraries, Member (2020-2021, 2023)
- CALS Graduate Teaching and Advising Award Selection Committee, member. University of Florida (2018)

### **Community service**

- Co-organizer, Maptime Miami (2017 - 2020)
- Volunteer Mentor, CoderDojo Plantation (2016 - 2018)

## **PROFESSIONAL MEMBERSHIPS**

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- OSGeo (Open Source Geospatial Foundation) - Elected Charter Member (2023 - )
- American Association of Geographers (AAG)
- Florida Society of Geographers (FSG)
- Hungarian Geographical Society (MFT)
- International Society for Photogrammetry and Remote Sensing (ISPRS)
- OpenStreetMap Foundation (OSMF), Voting member
- OpenStreetMap US
- Institute of Electrical and Electronics Engineers (IEEE) - Member of: Computer Society; Systems, Man, and Cybernetics Society
- ACM SIGSPATIAL - Special Interest Group on Spatial Information

## **IN THE NEWS**

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- June 2022: L'isola che (non) c'è [in Italian]. Interview and story by *Zeta Luiss*. <https://zetaluiss.it/2022/06/05/null-island-equatore/>

- May 2022: MapLab: Inside Null Island, ‘the Most Real of Fictional Places’. Interview and story by *Bloomberg CityLab*.  
<https://www.bloomberg.com/news/newsletters/2022-05-04/maplab-inside-null-island-the-most-real-of-fictional-places>
- September 2020: Online COVID-19 Maps and the ‘Infodemic’. *GIS Lounge*.  
<https://www.gislounge.com/online-covid-19-maps-and-the-infodemic/>
- August 2020: GIS researcher Levente Juhász examines online maps and their inaccuracies during COVID-19 pandemic. *FIU News*.  
<https://news.fiu.edu/2020/mapping-covid-19-an-interview-with-gis-researcher-levente-juhasz>
- April 2020: Article titled “Cartographic Vandalism in the Era of Location-Based Games” was promoted as the cover story of *ISPRS International Journal of Geo-Information* Vol.9 Iss. 4.  
<https://www.mdpi.com/2220-9964/9/4>
- December 2019: How Artists and Scientists Are Tackling Miami’s Rising Sea Levels. *Tech Insider*.  
[https://news.fiu.edu/2020/fiu-libraries-gis-experts-featured-in-new-tech-insider-piece-highlighting-t  
he-joint-effort-between-artists-and-scientist-in-bringing-awareness-to-rising-sea-levels-in-miami](https://news.fiu.edu/2020/fiu-libraries-gis-experts-featured-in-new-tech-insider-piece-highlighting-the-joint-effort-between-artists-and-scientist-in-bringing-awareness-to-rising-sea-levels-in-miami).  
(50k views as of January 2023)