

Olena Boiko
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Current Appointment

Geospatial Developer, U-Spatial, University of Minnesota

April 2022 - present

Previous Appointments

Remote Sensing Scientist, KBR, Inc (contractor to the US Geological Survey at the Earth Resources Observation and Science Center), Sioux Falls, SD

August 2019 – April 2022

Head Teaching Assistant, South Dakota State University, Department of Geography, Brookings, SD

August 2016 – August 2019

Education

South Dakota State University, Brookings, SD

Master of Science degree in Geography with Geographic Information Sciences Specialization

GPA: 3.9

received August 2019

National Technical University of Ukraine *Kyiv Polytechnic Institute*, Kyiv, Ukraine

Bachelor of Science degree in Chemical Technologies

GPA: 3.71

received June 2016

Research Presentations/Publications

- Gabriel B. Senay, MacKenzie Friedrichs, Charles Morton, Gabriel E.L. Parrish, Matthew Schauer, Kul Khand, Stefanie Kagone, Olena Boiko, Justin Huntington, Mapping actual evapotranspiration using Landsat for the conterminous United States: Google Earth Engine implementation and assessment of the SSEBop model, *Remote Sensing of Environment*, Volume 275, 2022, 113011, ISSN 0034-4257, <https://doi.org/10.1016/j.rse.2022.113011>.
- Lei Ji, Gabriel B. Senay, MacKenzie Friedrichs, Matthew Schauer, Olena Boiko, Characterization of water use and water balance for the croplands of Kansas using satellite, climate, and irrigation data, *Agricultural Water Management*, Volume 256, 2021, 107106, ISSN 0378-3774, <https://doi.org/10.1016/j.agwat.2021.107106>.
- Organized research that incorporated land cover change assessment and evaluation of driving forces of environmental change that got recognized with a scholarship for original scientific research: “Land cover changes within and around protected areas in Cote d’Ivoire from 1986 to 2017: a case study of Mabi-Yaya-Songan-Tamin reserved forests”. Presented at the American Association of Geographers Annual Meeting, Washington DC April 2019
- First place for the poster “Land cover change quantification and its challenges: a case study of Eldorado National Forest from 2009 to 2016.” Presented at the 50th Annual Geography Convention, Brookings, SD March 2019
- “Civil nuclear power industry in the Anthropocene: the past and projections for the future. An international comparison.” Presented at the American Association of Geographers Annual Meeting, New Orleans, LA April 2018

Selected Certifications/Awards

- Certificate of Recognition – Outstanding Graduate Geography Student Award, presented by the Department of Geography, South Dakota State University, Brookings, SD March 2019
- Certificate of Recognition – Outstanding Graduate Teaching Assistant, presented by the Department of Geography, South Dakota State University, Brookings, SD March 2019
- Selected by the Friendship Ambassadors Foundation as one of the global young leaders to the 23rd Session of the Youth Assembly guided by the theme: “Empowering Youth for Global Development” to tackle Sustainable Development Goals, New York, NY February 2019

- Joseph F. Nelson Graduate Scholarship, presented by the Graduate School,
South Dakota State University, Brookings, SD December 2018
- Dr. Roger and Linda Sandness International Study Scholarship,
South Dakota State University, Brookings, SD April 2018

Technical Skills

- Proficiency in spatial data processing, data mining, and visualization techniques using Python, R, and Microsoft Excel.
- Experience in deriving patterns and trends from spatial data and producing impactful maps with GIS applications, such as ESRI ArcGIS software (ArcGIS Desktop, ArcGIS Pro, ArcGIS Online), and QGIS.

Other skills

- Languages: English (proficient), French (upper-intermediate), Ukrainian (native), and Russian (proficient).

Service

- Geography Club Secretary – one of the organizers of the 49th and 50th Annual Geography Convention at the South Dakota State University 2018 – 2019
- Volunteered as a Judge for the National Geographic School Bee Contest at the Camelot Middle School, Brookings, SD 2018 and 2019
- Community partner and guest speaker on creating maps and importance of remote sensing for humanitarian assistance, Jefferson High School, Sioux Falls, SD October 2021