



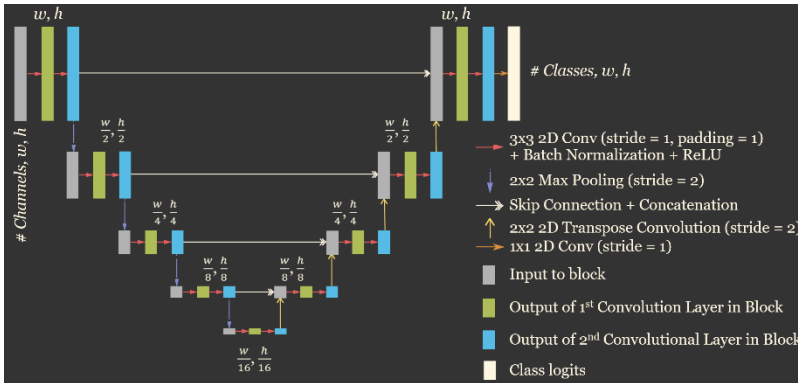
# WEST VIRGINIAVIEW 2023 - 2024

**AmericaView**<sup>SM</sup>  
Empowering Earth Observation Education  
[americaview.org](http://americaview.org)

## WEST VIRGINIAVIEW 2023 - 2024 ACTIVITIES

Our **HIA** this year focused on updating our course materials, which are freely available on the WV View website. We specifically:

- Completed a full update of our **Client-Side Web GIS** course including updating our ArcGIS Online content to reflect recent changes in the software, adding new materials associated with ArcGIS ExperienceBuilder, introducing ESRI's Arcade language, and expanding our JavaScript content. This course is available at: <https://www.wvview.org/cswg.html>
- Updated all ArcGIS Pro labs associated with our **GIScience** course. We now offer 29 lab exercises. This course is available here: <https://www.wvview.org/gisc.html>.
- Expanded our **Geospatial Deep Learning** seminar into a complete course. This material is available here: <https://www.wvview.org/geospatdl.html>

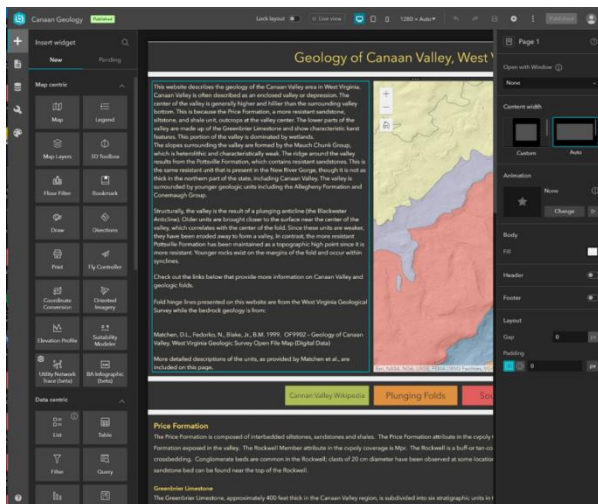


(Above) Our **Geospatial Deep Learning** course demonstrates how to build, train, and evaluate deep learning-based semantic segmentation models for pixel-level classification (such as UNet, conceptualized above).

(Left) Our **Client-Side Web GIS** course now includes content associated with ESRI's ArcGIS ExperienceBuilder, which allows for generating web maps and multi-page websites.

(Right) Our **GIScience** course includes 29 recently updated ArcGIS Pro labs.

E1: Intro to ArcGIS Pro
E2: Datums and Projections
E3: Exploring Spatial Data
E4: Digitizing
E5: Georeferencing and Resampling
E6: Data Queries
E7: Geodatabase Creation
E8: Intro to Symbology and Cartography
E9: Symbolizing Image Data
E10: Intermediate Cartography
E11: Intro to ArcGIS Online and Web Apps
E12: Intro to Spatial Analysis
E13: Intermediate Vector-Based Analysis
E14: Network Analysis
E15: Intermediate Raster-Based Analysis
E16: Data Summarization
E17: Mosaics and Multidimensional Rasters
E18: Digital Terrain Analysis
E19: Viewsheds and 3D GIS
E20: Working with LiDAR Data
E21: Raster Functions
E22: Surface Hydrologic Analysis
E23: ModelBuilder 1
E24: ModelBuilder 2
E25: Weighted Overlay
E26: Spatial Predictive Modeling with RF
E27: Supervised Classification with ML
E28: Intro to Spatial Stats
E29: Intro to Spatial Interp



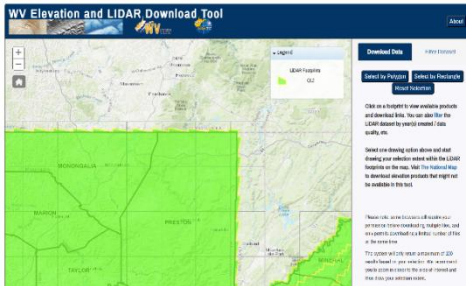
West VirginiaView is a member of the AmericaView Consortium, a nationally coordinated network of academic, agency, non-profit, and industry partners and cooperators that share the vision of promoting and supporting the use of remote sensing data and technology within each state. AmericaView is funded by USGS grant agreement G23AP00683.

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## BENEFITS TO WEST VIRGINIA

- Provide free educational materials for students and geospatial professionals
- Support workforce development
- Courses available:
  - *Methods in Open Science*
  - *GIScience*
  - *Open-Source GIScience*
  - *Remote Sensing*
  - *Digital Cartography*
  - *Client-Side Web GIS*
  - *Open-Source Spatial Analytics (R)*
  - *Geospatial Deep Learning*
- Foster remote sensing education, outreach, and research
- Provide access to LiDAR data via a web app
- Provide funding for graduate students



WV Elevation and LiDAR Download Tool.



West VirginiaView courses webpage.

## WEST VIRGINIAVIEW CONSORTIUM MEMBERSHIP



Federal consortium members identified above do not receive funding from AmericaView.

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<http://www.wvview.org>

