

# WES WEAVER

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[www.wesmapping.com](http://www.wesmapping.com)

## EDUCATION

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**University of Pennsylvania**, Philadelphia, Pennsylvania  
Master of Urban Spatial Analytics, May 2013  
▪ Recipient of PennIUR Master's Capstone Poster Award

**Temple University**, Philadelphia, Pennsylvania  
Bachelor of Arts, Geography and Urban Studies, May 2010  
▪ Recipient of Carolyn Adams Award in Geography and Urban Studies

## EXPERIENCE

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**Keystone Aerial Surveys, Inc.**, Philadelphia, Pennsylvania  
*Geospatial Analyst & Production Manager*, August 2013 – Present

- Promoted from positions as Aerial Sensor Operator and Geospatial Production Technician
- Lead photogrammetrist and manager of Geospatial Products Department
- Create geospatial products including orthoimagery, terrain datasets and high accuracy 3D models through photogrammetric methods and GIS.
- Research and develop new technology and methodology for sensors, systems, products and platforms.
- Develop and test methodology for new Unmanned Aerial Systems (UAS) technology
- Develop scripts and applications to augment production and project management, introducing high level automation.
- Present products, methods and technology to clients, students and corporate partners.
- Process and balance imagery, perform QA/QC and ensure high quality data.

**Philadelphia City Planning Commission**, Philadelphia, Pennsylvania  
*GIS Intern*, February 2013 – May 2013

- Maintained GIS data on land use for the Philadelphia2035 comprehensive plan.
- Updated land use geodatabase with new field data, editing data to match existing topology.
- Conducted field surveys of land use in planning districts to verify and update PCPC records.
- Developed scripts and models to automate project management.

**United States Student Association**, Washington, D.C.  
*Grassroots Organizing Weekend Trainer*, January 2009 – May 2010

- Educate and train college students and community group members on organizational development and strategic planning.

**Skills and Interests:** Primary interests include data analysis, open source technology, geospatial science, urban and regional planning, and leveraging GIS for good. Extensive experience with ArcGIS 10.x, QGIS, Global Mapper, and other GIS environments. Experience in spatial data analysis, statistics, and analysis software. Experience with web mapping platforms such as MapBox, Carto, ArcGIS Online, and Leaflet. Comfortable with several programming languages, including Python, JavaScript, HTML/CSS, and SQL. Devoted contributor to OpenStreetMap.

## PUBLICATIONS AND PRESENTATIONS

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### Journal Publications

Day, D., Weaver, W., Wilsing, L. (2016). Accuracy of UAS Photogrammetry: A Comparative Evaluation. *Photogrammetric Engineering & Remote Sensing*, Volume 82(12), pp. 909-914.

### Conference Papers

Passini, R., Weaver, W., Day, D. (2017). Accuracy analysis of DEMs generated from UAS imagery and large format digital cameras. Conference proceedings of the Imaging & Geospatial Technology Forum 2017: ASPRS Annual Conference, Baltimore, 12-16 March.

Passini, R., Jacobsen, K., Weaver, W., Day, D. (2017). A study on the accuracy of DEMs generated from UAS imagery as compared to latest generation LiDAR. Proceedings of the International LiDAR Mapping Forum (ILMF), Denver, 13-15 February.

Passini, R., Jacobsen, K., Weaver, W., Day, D. (2016). A study on oblique camera systems and the stability of their parameters. Proceedings of the Imaging & Geospatial Technology Forum 2016: ASPRS Annual Conference, Fort Worth, 11-15 April.

Passini, R., Day, D., Weaver, W. (2015). An accuracy analysis of large resolution images captured with the Nikon D810 digital camera system. Proceedings of the Imaging & Geospatial Technology Forum 2015: ASPRS Annual Conference, Tampa, 4-8 May.

**Award:** Best Talk in Advanced Capabilities at the 2015 ASPRS IGT&F

### Presentations & Invited Talks

- Southeastern Pennsylvania GIS User Group Inaugural Meeting, March 2017, Philadelphia, PA—Drones for Inspection and Mapping: Current and Future Usage
- Rowan College at Burlington County GIS Day, November 2016, Mount Laurel, NJ – Digital Photogrammetry & Aerial LiDAR and panelist
- Imaging & Geospatial Technology Forum - ASPRS Annual Conference, April 2016, Fort Worth, TX – Paper Presentation: A study on oblique camera systems and the stability of their parameters
- ESRI International User Conference 3D Mapping Forum, July 2015, San Diego, CA – Fusion of Airborne and Ground Imagery Derived Point Clouds in Preparation for 3D Printing
- North Atlantic ASPRS Tech Workshop, October 2014, Philadelphia, PA – *Imagery Derived Point Clouds*
- NJ Geospatial Forum, March 2014, Trenton, NJ – *Innovations in Image-Derived 3D Point Clouds*
- UPenn MUSA Lunch Series, February 2014, Philadelphia, PA – *Geospatial Data Acquisition and Photogrammetry*
- ESRI International User Conference, July 2013, San Diego, CA – Map Presentation, *Microwatershed Modeling with LIDAR and Interactive GIS Methods*