

# RESUMÉ

William G. Anderson

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## Experience

**Anderson Geographics LLC** | Hermiston, OR | 10/2013 – present

**Member.** Design, build and manage customized web/cloud-based farm data systems for agricultural clients. Imagery capture from UAS and manned platforms. Imagery analysis, including variable rate prescriptions from index thresholds and vegetation classification. GPS/GIS program development. My emphasis is in GIS, determining client goals for optimal system customization, and crop imagery program development.

**Custom Feed Services** | Irrigon, OR | 2013 – 2015 (Spring/Fall Only – approx. 3 months per year)

**Harvest Manager.** Manage multi-million-dollar custom chopping operation for silage harvest at Threemile Canyon Farms (Boardman, OR). Recruit, hire and supervise approx. 40 employees, including heavy equipment operators, mechanics, drivers, scale attendants, etc. Manage all other aspects of operation, including dry matter sampling for billing and liaising with dairy and farm representatives. A seasonal corn harvest can be nearly 300,000 tons. Majority of work in Spanish.

**San Diego Canyonlands** | San Diego, CA | 11/2009 – 02/2010 and 11/2010 – 07/2013

**Programs Manager (05/2011 – 07/2013):** Responsible for creating and managing non-profit watershed conservation organization's open space planning, GIS and habitat restoration programs. Other major duties included restoration project management, staff management, all GIS needs, maintaining website, liaising with public agencies and other canyon stakeholders, and grant writing/reporting. Major successes included protection of over 10 square miles of public land as dedicated open space, growing annual budget from \$140k to \$600k, developing Canyon Enhancement Planning program, expanding staff and developing partnership with the SDSU Geography Department.

**GIS Consultant (7 months):** Researched & purchased necessary hardware/software to map existing canyon conditions for trails/restoration planning. Trained staff in use of field GPS. Developed protocols to standardize canyon mapping.

**GIS Intern (3 months):** Analyzed city-owned land in order to identify candidates for open space "dedication" protection. Produced hundreds of maps and birds-eye figures of over 13,000 acres, used as principal information packages in a 3-year public vetting process involving City Council, City managing departments, 40 community planning groups, and other stakeholders. Provided GIS support to Canyon Enhancement Planning Pilot Project.

**Fundación Cordillera Tropical** | GIS Specialist | Cuenca, Ecuador | 01–08/2010

Generated 51 digital orthophotos from historical aerial photos for watershed land cover analysis, and 3-D scenes of historical terrain for archaeological studies. Lead technical person and responsible for all project components, including methods design, software selection, researching camera calibration, GCP measurement, DEM creation, aerial triangulation/orthorectification, and mosaicking. Prepared comprehensive technical report.

**San Diego State University Research Foundation** | Policy Analyst | Ecuador & San Diego, CA | 07/2009–11/2010

Investigated watershed conservation policies of Ecuadorian páramo grasslands via in-country interviews, archival research and GIS analysis. Analyzed and compiled findings into written reports. Also aided with fieldwork, including soil and biomass sampling for carbon inventory. Included eight months of fieldwork throughout Ecuador.

**San Diego State University Geography Department** | Graduate Research Assistant | San Diego, CA | 08/2007–05/2009

Conducted geo-statistical analysis of environmental and demographic variables to study their relationships with land cover on Mexico side of the Tijuana River Watershed. Assisted with field stream channel measurements to calculate sediment budget. Assisted with exploratory GIS analysis of relations between socioeconomic indicators and urban service provision. Researched progression of sewerage in developing urban areas. Instructed Physical Geography Lab.

**SMS Northwest** | Portland, OR | Production Manager | 03/2005–12/2006

For Pacific Basement Systems (new residential waterproofing contractor): created project protocols, managed installation crew, tracked project inventory, maintained project database and liaised with clients. For MachMedia (start-up rural wireless internet & VoIP provider): established protocols for installation, customer service, tech support and billing, and assisted with marketing and sales.

**St. Clare's High School** | Taree, New South Wales, Australia | Instructor | 02–12/2004

**Cosgrave Vergeer Kester LLP** | Portland, OR | Legal Research Clerk / Investigator | 04-07/2001 & 05-09/2002

**Hale Farms** | Hermiston, OR | Irrigation/Equipment Parts Runner & Grain Storage Mgr. | Summers 1997-1998, 2000

**OSU-HAREC** | Hermiston, OR | Field Technician, Potato IPM Studies | Summers 1992-1996

## Education

- 2009 Master's in Geography, San Diego State University, 3.95 GPA, various scholarships
- 2003 Graduate Diploma in Education, University of New England, Australia
- 2002 1/3 of JD completed, University of Oregon School of Law, 3.78 GPA, various scholarships, rank 7 of 163
- 2000 BA, Washington State University Honors College, 3.92 GPA, *Summa cum laude*, Spanish minor, various scholarships

## Grants & Awards

**San Diego Canyonlands (2011-2013):** State of California Strategic Growth Council Urban Greening Project Grant (\$365,000), San Diego Foundation (\$90,000), REI Foundation (\$45,000).

**San Diego State University (2007-2009):** Graduate Assistantship, Departmental Award for Graduate Work in International Human Geography, Conference of Latin Americanist Geographers Fieldwork Award.

**University of Oregon School of Law (2001-2002):** Scholarships: University of Oregon Academic, Henry Collier Law, Jeanette Mowery, Maria Jackson & General George White.

**Washington State University (1996-2000):** *Summa Cum Laude*, Honors College, Washington/Oregon Reciprocity Scholarship, Mortar Board "Outstanding Freshman Scholar", Avery Freshman Writing Award.

## Publications & Recent Presentations

Anderson, W.G. and S.E. Anderson. *UAVs & Multispectral Imaging for Pest Management*. OSU-HAREC Farm Fair. Hermiston, OR, 12-06-2019.

Anderson, S.E. and W.G. Anderson. *Use of UAVs & Multispectral Mapping in Vegetable Crop Production*. OSU-HAREC Farm Fair. Hermiston, OR, 12-04-2019.

Anderson, W.G. *Demo of UAV Data-Enabled Precision Ground Sprayer*. WSU CPAAS AgTech Day. Prosser, WA, 08-22-2019.

Anderson, W.G. *Successful Sprayer Applications From Imagery-Based Prescriptions*. OSU-HAREC Farm Fair. Hermiston, OR, 11-29-2018.

Anderson, W.G. and S.E. Anderson. *Orchestrating Harmony with ArcGIS (While Sometimes Falling Flat)*. SEW-NEO GIS User Group Meeting. CTUIR Mission, OR, 4-12-2018.

Anderson, S.E. and W.G. Anderson. *Pest Monitoring With Trap Data & Imagery Workflows*. OSU-HAREC Farm Fair. Hermiston, OR, 12-01-2017.

Biggs, T.W., W.G. Anderson, and E.P. Perkins (in review). Socioeconomics of Land Cover and Sediment Production Potential in Tijuana. *Annals of the Association of American Geographers*.

Biggs, T.W., W.G. Anderson, and O.A. Pombo (2014). Concrete and Poverty, Vegetation and Wealth? A Counterexample from Remote Sensing of Socioeconomic Indicators on the U.S.–Mexico Border. *The Professional Geographer*.

Farley, K.A., W.G. Anderson, L.L. Bremer and C.P. Harden (2011). Compensation for Ecosystem Services: An Evaluation of Efforts to Achieve Conservation and Development in Ecuadorian Páramo Grasslands. *Environmental Conservation*. Cambridge, United Kingdom.

Anderson, W.G. (2010). Analysis of Historical Land Cover of the Nudo del Azuay using Aerial Photos (Stage 1 of 2: Orthophoto Generation). Unpublished report.

Anderson, W.G. and T.W. Biggs (2009). Relationships Between Land Cover, Socioeconomics, Slope and Urban Surface Age in Tijuana. Meeting of the Assoc. of Pacific Coast Geographers, San Diego, CA.

Biggs, T.W., W.G. Anderson, E.P. Perkins and A. Pombo (2009). Marginality, Land Cover, and Sediment Production in Tijuana. Meeting of the Association of Pacific Coast Geographers, San Diego, CA.

## **Spanish Language & International Experience**

- **Custom Feed Services (seasonal harvest):** Manage ~40 Hispanic equipment operators and other employees.
- **Ecuador (10 months):** GIS Specialist for land cover analysis project, also Policy Analyst for project investigating conservation and land use change of páramo grasslands (07-08/2009 and 01-08/2010).
- **Guatemala (7 months):** Master's thesis fieldwork (2008) and ESL instruction (2000-2001).
- **Australia (2 years):** Postgraduate study (2003) and high school instructor (2004).
- **South Korea (2 months):** ESL instruction to university students (2001).
- **Spain (5 months):** Honors thesis research and undergraduate coursework at La Universidad de Alicante (1998).