

**Russell B. Alleen-Willems**  
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**Education:**

M.A. **Applied Archaeology.** Northern Arizona University, Flagstaff, Arizona (2012).  
B.A. **Anthropology.** Western Washington University, Bellingham, Washington (2007).

**Academic/Research Specialties:** Archaeological databases, information tool development, computer-aided field methods, digital data preservation and dissemination, geographic information systems, North American history and prehistory, American Southwest, Northwest Pacific Coast, cultural resource management law, public archaeology.

**Present Positions:**

**Digital Archaeologist and Founder.** Diachronic Design, Seattle, Washington (January 2013-Present).

- Consult on software development, app customization, data management and software workflows
- **Recent Project Examples:**
  - Wrote scripts for a FileMaker Pro 13 database to synchronize and resolve conflicts in records from a CRM archaeology data recovery project between the Parent database (desktop) and multiple Child databases (iPads).
  - Created data collection forms for an archaeological monitoring project in the MementoDB (Android) and TapForms (iOS) apps.
  - Prototyped a mobile archaeology database app using HTML/CSS/Javascript, PhoneGap, JQuery Mobile, and SQLite.
  - Built custom FAIMS-in-a-Box digital recording field kits.
  - Prototyped 3D/Cardboard VR artifact visualizations for archaeology museum website.

**Collections Manager.** Western Washington University Archaeology Lab, Bellingham, Washington (August 2012-October 2013).

- Worked on the 2012 WA DAHP Grant “Collections Inventory for Archaeological Resources in NW Washington”
- Transferred collections to new storage units
- Tracked access to collections
- Monitored storage locations
- Coordinated and supervised student lab workers and volunteers
- Supervised, trained and monitored staff on data entry projects
  - Specific software used: MS Access, Past Perfect 5.0
- Provided responses to research inquires
- Created and implemented collection management and preservation policies
- Estimated and ordered collection storage materials
- Applied for and was awarded a NEH Preservation Assistance Grant

## **Professional Archaeological Experience:**

**Museum Collections Technician.** Whatcom County Parks and Recreation, Bellingham, Washington (June 2012 – December 2012).

- Entered museum object records into PastPerfect 4 database.
- Created object recording guides for museum volunteers.
- Worked with park managers to secure museum collections.

**Graduate Assistant.** Anthropology Computer Lab, Northern Arizona University, Flagstaff, Arizona (August 2011-May 2012).

- Administered anthropology computer lab and computer equipment.
- Created and taught student workshops on anthropology software (e.g. Anthropac, UCINet, Atlas.ti).
- Answered student questions and troubleshoot software and hardware errors.
- Administered, maintained, and updated NAU Anthropology Department website.

**Intern.** Digital Antiquity, Tempe, Arizona (June-August 2011).

- Wrote research reports on archaeology digital repositories.
- Proofread and edited the Guides to Good Practice in Digital Archiving.
- Wrote online documentation for the Digital Archaeological Record website.
- Digitized and archived archaeological reports.
- Cleaned and prepared XML-encoded bibliographic records.
- Consulted with grantee organizations and processed grantee paperwork.

**GIS Specialist.** Museum of Northern Arizona, Flagstaff, Arizona (2011).

- Compiled sources and made maps for the Atsinna Pueblo Cultural Affiliation report.
- Examined geographic line of evidence for cultural affiliation under NAGPRA.

**Archaeological Technician.** Environmental Planning Group Inc., Phoenix, Arizona/Las Vegas, Nevada (2007-2010).

- Surveyed and documented archaeological resources in Nevada and Oregon.
- Wrote site reports and documentation for identified resources.
- Edited and corrected GIS shapefiles for archaeological sites.

**Archaeological Technician.** EcoPlan Associates, Inc., Phoenix, Arizona (November 2009).

- Surveyed and documented archaeological resources in Arizona.

**Archaeological Technician.** AMEC Earth & Environmental, Inc., Bothell, Washington (2007-2009).

- Surveyed and documented archaeological resources in Washington and Oregon.
- Excavated an archaeological site in Granite Falls, Washington.

**Archaeological Technician.** Cape Krusenstern Human-Environmental Dynamics Project, University of Washington, Seattle, Washington/National Park Service, Kotzebue, Alaska

(June-August 2008).

- Surveyed and documented archaeological resources along Cape Krustenstern in Alaska.
- Prepared meals, maintained ATVs, and other camp duties during the project.

### **Archaeological Expertise:**

#### **Field Methods:**

- Archaeological survey
- Test excavation
- Condition assessment
- Field mapping
- GPS, Total Station data collection

#### **Lab/Office Methods:**

- Database creation and entry
- Mobile data logger creation and customization
- Statistical analysis
- GIS creation and analysis
- Map creation
- Figure creation
- Technical report writing
- Document layout

### **Museum Experience:**

**Archaeological Collections Volunteer.** Museum of Northern Arizona, Flagstaff, Arizona (March-September 2010).

- Constructed custom mounts for museum artifacts.
- Cleaned, photographed, and packed ceramic artifacts.

**Photographic Archives Intern.** Whatcom County Museum, Bellingham, Washington (Summer 2006).

- Digitized the Mount Baker scrapbook and created associated records in PastPerfect 4.0.
- Developed black and white prints from archived photo negatives.

### **Audio Editing Experience:**

**Audio Editor.** Society for Applied Anthropology Podcast Team (2008).

**Audio Editor.** ArchaeoTech Podcast (2014-Present).

### **Public Outreach Experience:**

**Panelist.** CRM Archaeology Podcast (2013-Present)

<http://www.archaeologypodcastnetwork.com/crmarchpodcast/>

**Co-host.** ArchaeoTech Podcast (2014-Present)

<http://www.archaeologypodcastnetwork.com/archaeotech/>.

Long, Emily and Russell Alleen-Willems

2010 *A Fieldtrip in Archaeology*. Presentation (via Skype Video Conferencing) to Olentangy Liberty Middle School, Powell, Ohio. October 27<sup>th</sup>, 2010.

2011 *A Fieldtrip in Archaeology*. Presentation (via Skype Video Conferencing) to Olentangy Liberty Middle School, Powell, Ohio. November 4<sup>th</sup>, 2011.

**Navajo Homesite Surveys**, Northern Arizona University, Leupp, Navajo Reservation.

- Conducted homesite surveys for archaeological resources and taught undergraduate students how to survey and record archaeological sites. October 2<sup>nd</sup> & 9<sup>th</sup>, 2011.

### **Leadership Experience:**

**Team Coordinator (2012-Champions), Team Member (2011)** NAU Society for American Archaeology Ethics Bowl Team.

**Club President (2007), Financial Officer (2006)** WWU Anthropology Club.

### **Presentations:**

Alleen-Willems, Russell

2014 *"But Is It Academic?" Reflections on a Year of Archaeology Blogging*. Paper presented at the 79<sup>th</sup> Annual Meeting of the Society for American Archaeology, Austin.

Alleen-Willems, Russell

2011 *Digital Archaeology: Preserving Archaeological Information in the 21<sup>st</sup> Century*, Arizona Archaeological Society.

Willems (Alleen-Willems), Russell

2007 *Thinking Digitally: Computer Technology's Effect on Human Cognition*, Western Washington University Anthropology Scholar's Week Conference.

### **Publications**

Alleen-Willems, Russell

2012 *Designing the Digital Archaeological Record: Collecting, Preserving, and Sharing Archaeological Information*. Master's thesis, Department of Anthropology, Northern Arizona University, Flagstaff. Available at: [http://www.diachronicdesign.com/documents/Alleen-Willems\\_2012\\_DesigningTheDigitalArchaeologicalRecord.pdf](http://www.diachronicdesign.com/documents/Alleen-Willems_2012_DesigningTheDigitalArchaeologicalRecord.pdf)

Alleen-Willems, Russell

2012 Chapter 11: Mode and Technique of Clovis Blade Production at the Rainbow Forest in *Northern Arizona University Archaeological Report 1343: The Rainbow Forest Site: Paleoindian Settlement and Lithic Reduction Strategies in Petrified Forest National Park, Arizona*, edited by Cole B. Wandler, Francis E. Smiley, and Meghann M. Vance, pp. 99-109. Northern Arizona University, Flagstaff, in press.

Alleen-Willems, Russell

2012 Appendix A: Geographical Evidence in *El Morro National Monument – Atsinna Pueblo Cultural Affiliation Study*, edited by Kelley Ann Hays-Gilpin. Museum of Northern Arizona, Flagstaff, in press.

## Professional Societies:

**Society for American Archaeology** (2009-2014).

Digital Data Interest Group (DDIG) member (2009-Present).

Ethics Bowl Organizing Committee (2013-Present), Moderator (2013).

## Professional Computing Expertise:

### Operating Systems

- Apple OS X 10.4-10.6
- Microsoft Windows 3.1-XP, 7
- Linux (Ubuntu & ArcheOS)

### Word Processing Applications

- Microsoft Word 2007, 2010

### Presentation Applications

- Microsoft PowerPoint 2007, 2010
- Timeline.js
- Prezi

### Graphics Applications

- Adobe Photoshop
- Adobe Illustrator
- Gnu Image Program (GIMP)

### Database/Spreadsheet Applications

- Microsoft Access 2007, 2010
- FileMaker Pro 13
- Microsoft Excel 2007, 2010
- PastPerfect 4/5 (Museum Database)
- SQLite 3
- Heurist

### Mobile Database Applications

- FileMaker Go (iOS)
- FAIMS Archaeology Data Logger Server (Ubuntu)/Mobile App (Android)
- TapForms (iOS)
- MementoDB (Android)

### Geographic Information Systems & Tools

- ArcGIS 9.3/10
- QGIS
- GRASS

- Leaflet.js
- CMV/ArcGIS Javascript API

### Statistical Packages

- IBM SPSS Statistics
- R statistical programming language

### Video Editing/Authoring Applications

- Apple iMovie
- Apple Final Cut Pro
- Camtasia Studio

### Audio Editing Applications

- Audacity 1.2
- Apple GarageBand

### Web Design Applications

- Adobe Dreamweaver
- HTML5/CSS3/Javascript

### Desktop Publishing Applications

- Adobe InDesign

### Programming Languages

- Python 2/3
- JavaScript
- R Statistical Programming Language

### Version Control

- Git/GitHub

### Virtual/Augmented Reality & Visualization

- Google Cardboard
- Three.js
- Unity3D Game Engine

## **Other Qualifications, Training, and Experience:**

**Certified Software Carpentry Instructor.** Software Carpentry (<http://software-carpentry.org/>)  
September 18<sup>th</sup>, 2014-Present.

- Certified in core pedagogical concepts and evidence-based teaching practices.
- Qualified to teach Software Carpentry's core curriculum.
- Taught SQL lessons, University of Washington for Winter and Spring 2015 workshops.

**AmeriCorps Volunteer.** Coconino Rural Environment Corps: Energy Conservation Corps.  
Flagstaff, Arizona. (April 19<sup>th</sup>, 2010 – June 30<sup>th</sup>, 2010).

- Provided free energy conservation equipment and services to Northern Arizona households.
- Conducted energy conservation measures and repairs on historic structures at Phantom Ranch at Grand Canyon National Park.