

## **SARA PATRICIA CHAVARRIA**

### **CONTACT INFORMATION**

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### **BACKGROUND**

Sara Chavarria has coordinated multifaceted outreach projects, including the development of Social Studies curriculum units for PULSE (Promoting Understanding and Learning for Society and Environmental Health) and the International School of Toulouse, the development of Summer Institutes for High School Students and for Secondary School teachers (currently working on Dendrochronology and Fire Ecology), the design of mentor hosting handbooks for K-12 (Kindergarten-12<sup>th</sup> grade) schools, design of curriculum for Native American audiences, the design and incorporation of teacher designed iMovie vignettes to situate a teacher's science and history lessons, and spearheading the creation of a grassroots university-wide outreach organization (The UA Collaborative for Community Outreach and Extension) at the UA. Dr. Chavarria provides extensive broader impact grant writing support to education faculty and faculty from UA Colleges of Engineering, Agriculture, Medicine, and Science. Dr. Chavarria is very involved in exploring how to best attract and prepare underrepresented students for higher education persistence and as such her outreach and grant writing interests focus on developing a pathway of university experiences for children of poverty that would illustrate the myriad number of career possibilities that exist.

### **EDUCATION**

**2000** Ph.D., Language, Reading, and Culture (Minor: Anthropology), University of Arizona  
**1995** M.A., Anthropology, University of Arizona  
**1988** B.A. Anthropology, University of Texas, San Antonio

### **PROFESSIONAL EXPERIENCE**

**2016-Present**      **Assistant Dean, Research Development and Outreach, UA College of Education**

- Identify grant opportunities for our faculty and researchers; support them with grant writing, program design, and program evaluation design.
- Create and secure interdisciplinary collaboration opportunities for our faculty with faculty and researchers in other units at the University of Arizona.
- TLS 400, the. Instructor, Career readiness course for the Literacy, Learning and Leadership BS, Department of Teaching and Sociocultural Studies, College of Education, University of Arizona.

**2012-Present**      **Assistant Director, UA STEM Learning Center**

- Broader Impact grant writing consultation, program design, and evaluation design. Broader impact efforts are coordinated to serve the community's needs more effectively, sustainably, and consistently by pooling resources in programmatic design
- TRIO Student Support Services STEM program. SLC team leading assessment needs design.

### **2006-2016 Director of Education Outreach, UA College of Education**

- 100% Engagement project – designing a handbook on leadership pathways for volunteers at non-profit locations. (<https://www.coe.arizona.edu/LeadPathways>)
- UA Laboratory of Tree-Ring Research, CSI (Catastrophe Science Investigators) Middle School Girls research workshop ([www.coe.arizona.edu/trlessons](http://www.coe.arizona.edu/trlessons))
- UA Laboratory of Tree-Ring Research, Teacher Workshops (<https://www.coe.arizona.edu/treeringsummer>), Student Activities, videos, and Lesson Design (<https://www.coe.arizona.edu/trlessons>) (<https://www.coe.arizona.edu/forestfirevideos>)
- Co-Chair, The UA Collaborative for Community Outreach and Extension organization. Hosts the UAforYOU website. (<http://uaforyou.arizona.edu>)
- *Passport to High School Summer Institute* program coordination, College of Education, University of Arizona, Tucson, Arizona (<http://www.coe.arizona.edu/P2HS>)
- *Hosting Mentors Handbooks*, College of Education, University of Arizona, Tucson, Arizona (<http://www.coe.arizona.edu/HostingMentors>)
- *Summer Enrichment Program for High School Teachers (2012)*, College of Education, Tree-Ring Laboratory, Biosphere 2, University of Arizona, Tucson, Arizona <http://www.coe.arizona.edu/treeringsummer>
- The College of Education's new BA in Science Education: *Literacy, Learning, and Leadership* Internship Team (<http://www.coe.arizona.edu/L3internship>)

### **2006-2013 Director of Education Outreach, UA College of Education**

- Coordinating Education Outreach projects with Wildcat School to better serve K-12 school research.

### **2003-2006 Evaluation, Consultation, Mentoring, and Curriculum Development (Tucson)**

- *Center for Desert Archaeology Inc's San Pedro Ethnohistory Project*. Product evaluation of outreach website funded through NEH (National Endowment for the Humanities) introducing the ethnohistories of various Native American tribal groups and their relationship to the archaeology sites of Southern Arizona (2006).
- NSF IGERT in the Archaeological Sciences at the University of Arizona mid-program evaluation (Spring 2005)
- PULSE Program, Southwest Environmental Health Sciences Center, Community Outreach and Education Program—Conceptual Design and Curriculum development. Developing full year social studies curriculum units for grades 10 through 11 in World History and American History. <http://pulse.pharmacy.arizona.edu/>
- Integrative Graduate Education and Research Traineeship (IGERT) Summer Teacher Institute—Teacher Workshop Coordinator (2004-2007) and Outreach Coordinator (2005-2006). IGERT Program for the Archaeological Sciences, University of Arizona. The two week Institute introduced local teachers to post-field archaeology research and study. As Outreach Coordinator, worked with the graduate fellows in their partnerships with local teachers and museums. <http://datamonster.sbs.arizona.edu/IGERT/outreach.php>

- Pueblo High School, TUSD—World History Curriculum Development.

### **2000-2002 Teaching, Consultation, Mentoring, and Curriculum Development (France)**

- International School of Toulouse (<http://www.internationalschooltoulouse.net/>) Curriculum Development: Grade 6 (The Albi project), Grades 7 & 8 (Archaeology Unit) and Student Mentoring for Grades 11 & 12 (Social Studies IB Research Projects) .

### **1995-1999 Education Outreach, Training, and Development (Tucson)**

- Old Pueblo Archaeology Center—Archaeology Education Outreach
- Cholla High School—Curriculum development and Teaching
- GLOBE Science Program, University of Arizona, Dept. of Hydrology—Teacher Training

### **1992-2002 Coordination, Editing and Administration**

- EUROpean Cloud Systems (EUROCS) Project, Météo France, Toulouse, France—Project Coordinator (2000-2002) <http://www.cnrm.meteo.fr/gcss/EUROCS/EUROCS.html>
- Arizona State Museum Archaeological Series, Tucson, Arizona—Programming editor (1992-1999)

### **1991-1999 Archaeological Fieldwork and Labwork (Tucson)**

- Old Pueblo Archaeology Center – Project Director (1994-1999)
- Arizona State Museum Lab supervisor and instructor for Gila River Cultural Center student training Red Earth Program (Summer 1995 & 1996)
- Arizona State Museum’s Marana Platform Mound Community assistant lab supervisor & field schools crew supervisor (1991- 1994)
- Various Survey Projects (1991- 1999)

### **CURRICULUM and OUTREACH MATERIALS DEVELOPMENT**

*Volunteer Hosting Handbook: Leadership Pathways for Volunteers.* May 2016.

(<https://www.coe.arizona.edu/hosting-ua-volunteers-handbook-community-organizations>)

*UA Laboratory of Tree-Ring Research* outreach teacher developed online tools:

(<http://www.coe.arizona.edu/trlessons>) (<https://www.coe.arizona.edu/forestfirevideos>)

*UA for You Design Team*, University of Arizona’s new Outreach Portal

(<http://uaforyou.arizona.edu>)

*Passport to High School Summer Institute Lessons & Activities* (2013), College of Education,

University of Arizona, Tucson, Arizona (<http://www.coe.arizona.edu/P2HS/LessonDownload>)

*Hosting Science Mentors: A Handbook for Middle and High Schools* (2011), College of Education,

University of Arizona, Tucson, Arizona (<http://www.coe.arizona.edu/HostingMentors>)

*Hosting Mentors: A Handbook for Middle and High Schools* (2011), College of Education, University

of Arizona, Tucson, Arizona (<http://www.coe.arizona.edu/HostingMentors>)

*Industrialization of the American Landscape* (2006). PULSE Curriculum project, College of Pharmacy, University of Arizona, Tucson, Arizona.

([http://pulse.pharmacy.arizona.edu/11th\\_grade/industrialization/social/index.html](http://pulse.pharmacy.arizona.edu/11th_grade/industrialization/social/index.html))

*Disease and Epidemics: Architects of History* (2005). PULSE Curriculum project, College of Pharmacy, University of Arizona, Tucson, Arizona.

([http://pulse.pharmacy.arizona.edu/10th\\_grade/disease\\_epidemics/social\\_studies/index.html](http://pulse.pharmacy.arizona.edu/10th_grade/disease_epidemics/social_studies/index.html))

*Dawn of New Revolutions* (2004). PULSE Curriculum project, College of Pharmacy, University of Arizona, Tucson, Arizona.

([http://pulse.pharmacy.arizona.edu/10th\\_grade/dawn\\_new/index.html](http://pulse.pharmacy.arizona.edu/10th_grade/dawn_new/index.html))

*Fertilizers, Pesticides, and Human Health: American History* (2004). PULSE Curriculum project, College of Pharmacy, University of Arizona, Tucson, Arizona.

([http://pulse.pharmacy.arizona.edu/11th\\_grade/industrialization/social/index.html](http://pulse.pharmacy.arizona.edu/11th_grade/industrialization/social/index.html))

## **GRANTS**

*EFRI NewLAW: Photo-elasticity Enabled Non-reciprocal Acoustic Wave Propagation in Solid-state Media*, PI PIERRE DEYMIER, University of Arizona. Award amount: \$1,943,863.00 (S. Chavarria, senior personnel, education activities); Dates: 10/1/16-9/30/20.

*Inspiring the Next Generation of Naval Scientists and Engineers in NROTC Battalions Through Undergraduate Navy-Relevant Geospatial Experiences*, PI - SARA CHAVARRIA, University of Arizona. Award amount: \$747,382.00, 8/1/16-7/31/19.

*Undergraduate "Leadership Pathways to Career" Project*. PI - SARA CHAVARRIA, University of Arizona. Award amount: \$11,576.00. May 2015-June 2016.

*Collaborative Research: Processes and Patterns in the North American Monsoon Macrosystem*, PI - RUSSEL MONSON, University of Arizona. Award amount: \$2,950,000.00 (S. Chavarria Education budget \$122,976.01); Dates: 4/1/11-5/17.

*CNH: Long-term vulnerability and resilience of coupled human-natural ecosystems to fire regime and climate change at an ancient Wildland Urban Interface*, PI - THOMAS SWETNAM, University of Arizona. Budget from Award amount \$2,500.00.00 (S. Chavarria education budget \$87,695.00); Dates: 9/1/11-1/28/16.

## **COMMUNITY PRESENTATIONS and TRAININGS**

*Forest Fire Ecology Lessons: Middle and High School Applications*. STEM on the Range Teacher Professional Development Workshop, November 6, 2015, Tucson, Az

*The 5 E's of STEM Learning*. Boys and Girls Clubs Facilitator Training, August 28, 2015, Phoenix, AZ.

*The 5 E's of STEM Learning in Informal Contexts*. AZCASE Out of School Conference, November 15, 2014, Phoenix, Arizona

## **PROFESSIONAL ORGANIZATIONS, COMMITTEES, and RECOGNITIONS**

American Association of University Women

American Education Research Association

Arizona Girls Collaborative Project Advisory Board

Association for Supervision and Curriculum Development

National Association for Broader Impacts

Native SOAR Advisory Council

UA Outreach Collaborative for Community Engagement Steering Committee

College of Education 2014 Maria Urquides Laureate Award

## **LANGUAGES**

English and Spanish