

# ***Curriculum vitae***

## **GERALDINE DIVERRES NARANJO**

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### **Current position**

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Viticulture extension specialist. New Mexico State University.

### **Education**

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- 2023 Ph. D in Horticulture. Washington State University. Dissertation: Effect of temporal and spatial variations in soil moisture on grapevine physiology, productivity, and quality.
- 2018 MS in Plant Biology. Universidad Complutense de Madrid. Thesis: Effect of irrigation dose and frequency on a highly productive and highly mechanized vineyard in Toledo, Spain.
- 2017 BS in Biology. Universidad Complutense de Madrid. Thesis: Molecular analysis of a tagged gene in *Drosophila melanogaster*.

### **Professional experience**

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- Since 2025 Viticulture Extension Specialist. New Mexico State University (USA).
- 2024 - 2025 Postdoctoral research associate at Washington State University. Irrigated Agriculture Research and Extension Center (USA).
- 2019 - 2023 Research assistant. Department of Viticulture and Enology, Washington State University (USA).
- 1/19 – 5/19 Teaching assistant. VIT\_ENOL 113. Washington State University (USA).
- 5/18 – 10/18 Research intern in Viticulture. Best Brandy project. FEDER-CDTI Reference: EXP – 00090831 / ITC-20161157. Universidad Politécnica de Madrid (Spain).

## Committee and organizational activities

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2024 - Present

ASEV-ES member.  
ASEV-ES Scholarship committee member.  
ASEV-ES Oenolympics committee member.

National Viticulture and Enology Leadership Community (NVEELC)

2022 - 2023

Senator. Graduate Professional Student Association, Washington State University.

Food security special committee member. Graduate Professional Student Association, Washington State University

2021 – Present

ASEV national member

2021 – 2022

Social coordinator, Prosser Graduate Student Association, Washington State University.

2021

Interim Vice-President, Prosser Graduate Student Association, Washington State University.

## Publications

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### Publications – Peer reviewed

Kang C., **Diverres G.**, Karkee M., Zhang Q., Keller M. 2024. Assessing grapevine water status through fusion of hyperspectral imaging and 3D point clouds. *Computers and Electronics in Agriculture*, 226, 109488.

**Diverres G.**, Fox D., Harbertson J., Karkee M., Keller M. 2024. Response of Riesling wine grapes to temporally and spatially heterogeneous soil water availability. *American Journal for Viticulture and Enology*, 75, 0750019.

Kang C., **Diverres G.**, Achyut P., Karkee M., Zhang Q., Keller M. 2023. Estimating soil and grapevine water status using ground based hyperspectral imaging under diffused lighting conditions: Addressing the effect of lighting variability in vineyards. *Computers and Electronics in Agriculture*, 212, 108175.

Kang C., **Diverres G.**, Karkee M., Zhang Q., Keller M. 2023. Decision-support System for Precision Regulated Deficit Irrigation Management for Wine Grapes. *Computers and Electronics in Agriculture*, 208,

Zhou Z., **Diverres G.**, Kang C., Thapa S., Karkee M., Zhang Q., Keller M. 2022. Ground-Based Thermal Imaging for Assessing Crop Water Status in Grapevines over a Growing Season. *Agronomy*, 12, 322.

Thapa S., Kang C., **Diverres G.**, Karkee M., Zhang Q., Keller M. 2022. Assessment of Water Stress in Vineyards Using On-The-Go Hyperspectral Imaging and Machine Learning Algorithms. *Journal of the ASABE*, 0.

Zhou Z., Majeed Y., **Diverres-Naranjo G.**, Gambacorta E. 2021. Assessment of crop water stress with infrared thermal imagery in precision agriculture: A review and future prospects for deep learning applications. *Computers and Electronics in Agriculture*, 182, 106019.

## Extension

**Diverres G.**, Keller M., Moyer M. 2026. Factores que afectan al cuajado de la vid y estrategias de manejo en el viñedo. Guide H188\_ESP. New Mexico State University, ACES.

**Diverres G.**, Keller M., Moyer M. 2026. Causes and mitigation of poor fruit set in grapevines. Guide H188. New Mexico State University, ACES.

**Diverres G.**, Keller M., Moyer M. 2025. Poor fruit set in grapevines: Causes and mitigation practices. *Viticulture and Enology extension news*, Spring 2025.

**Diverres G.** & Hansen M. 2023. Irrigating white wine grapes in arid climates using Riesling as a model. *Wine business monthly*, Spring 2023.

**Diverres G.** 2022. Tailoring irrigation for white wine grapes in eastern Washington. *Viticulture and Enology extension news*, Spring 2022.

## **Posters and presentations**

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### Posters

Characterizing New Mexico vineyard soils. ASEV joint 2026 annual meeting, 10-12 June 2026. Boise (ID).

Water vs. Nitrogen: What controls vine growth and yield. Washington State Grape Society 2025 annual meeting, 20-21 November 2025. Grandview (WA).

Soil moisture and soil temperature interact to alter grapevine water relations and aquaporin gene expression. ASEV 2025 annual meeting, 10-12 June 2025. Monterey (CA).

Soil moisture and soil temperature interact to alter grapevine water relations. Washington Wine Growers WineVit 2025 annual meeting, 10-12 February 2025. Kennewick (WA).

Grapevine response to soil Moisture and soil temperature differences caused by deficit irrigation strategies. Washington State Grape Society 2024 annual meeting, 21-22 November 2024. Grandview (WA).

Riesling as a model to irrigate white wine grape varieties in arid climates. 22<sup>nd</sup> Giesco conference, 17-20 July 2023. Group of International Experts for Cooperation in vitivicultural systems. Ithaca (NY).

Irrigation management can benefit white wine grape production by saving water and modifying canopy architecture. Washington State Grape Society 2021 annual meeting, 18-19 November 2022. Grandview (WA).

Tailoring irrigation for white wine grapes in arid eastern Washington. 73<sup>rd</sup> ASEV national conference, 19-22 June 2022. American Society for Enology and Viticulture. San Diego (CA).

Riesling and partial rootzone drying, a promising relationship. Washington Wine Growers WineVit 2022 annual meeting, 7-10 February 2022. Kennewick (WA).

Riesling and regulated deficit irrigation: a suboptimal relationship. Washington State Grape Society 2021 annual meeting, 18-19 November 2021. Grandview (WA).

Tailoring smart irrigation strategies for white wine grapes in eastern Washington. 72<sup>nd</sup> ASEV national conference, 21-24 June 2021. American Society for Enology and Viticulture. Virtual meeting.

Tailoring irrigation strategies for white wine grapes in eastern Washington. Washington Wine Growers WineVit 2021 annual meeting, 9-23 March 2021. Virtual meeting.

Evaluating deficit irrigation strategies in Washington State. Washington Wine Growers WineVit 2020 annual meeting, 5-8 March 2020. Kennewick (WA).

Evaluating water deficit irrigation strategies in Washington State. Washington State Grape Society 2019 annual meeting, 14-15 November 2019. Grandview (WA).

## Presentations

**Diverres G.** 2026. Introduction to viticulture. Four corners region vine and wine symposium- April 9-10, 2026. Farmington (NM).

**Diverres G.** 2026. Vine balance. Los Lunas agent training. April 7-8, 2026. Los Lunas (NM).

**Diverres G,** Caldwell D. 2026. One year in NM: Future projects and research updates - Oral presentation. 45<sup>th</sup> New Mexico wine education conference – Feb 27-28, 2026. Las Cruces (NM).

**Diverres G.** 2026. Garden to Table to Pantry: Grapes! – Oral presentation. 2026, Sandoval country extension. 10 February 2026. San Ysidro (NM).

**Diverres G.** 2026. Physiology hints for vineyard irrigation management in arid climates – Oral presentation. 2026 Arizona wine summit, Arizona wine growers' association. 11 January 2026. Clarkdale (AZ).

**Diverres G.** 2026. Sharing our vision: Viticulture program – Oral presentation. 2026 CES In-service ignite talk. 9 January 2026. Las Cruces, (NM).

**Diverres G.** 2026. It's Cold Outside: Managing our Orchards, Fields, Turf, and Gardens Through the Winter. Vineyard pruning basics – Oral presentation. 2026 CES In-service. 8 January 2026. Las Cruces, (NM).

**Diverres G.** 2025. Valor agregado del cultivo de uva – Oral presentation. Talleres de valor agregado. Secretaría de Desarrollo Rural del Estado de Chihuahua. 12 November 2025. Chihuahua, Chihuahua (Mexico).

**Diverres G.** 2025. Use of drones and sensors for vineyard management – Oral presentation. First international symposium for sustainable viticulture, CETYS University (Centro de estudios vitivinícolas CEVIT), 6-7 November 2025. Ensenada, Baja California (Mexico).

**Diverres G.** 2025. Efficient water use in viticulture: Strategies for Resilience – Oral presentation. First international symposium for sustainable viticulture, CETYS University (Centro de estudios vitivinícolas CEVIT), 6-7 November 2025. Ensenada, Baja California (Mexico).

**Diverres G.** 2025. Above and below: Soil moisture and soil temperature interact to alter grapevine water relations. 23<sup>rd</sup> Giesco (Group of International Experts for Cooperation in vitivinicultural systems) conference, 27-31 July 2025. Geisenheim (Germany).

**Diverres G.** 2025. Bridging research and grower wisdom for New Mexico's wine industry – Oral presentation. New Mexico Wine Education Conference, 22-24 February 2025. Albuquerque (NM).

**Diverres G.** 2024. Response of Riesling to temporally and spatially heterogeneous soil water availability – Oral presentation. 75<sup>th</sup> ASEV national conference, 18-20 June 2024. American Society for Enology and Viticulture. Portland (OR).

**Diverres G.,** Keller M., Obiero C. 2024. Irrigation discoveries – Oral presentation. Washington wine industry WAVEx webinar. Online.

**Diverres G.** 2023. Viticultural features of Tempranillo and its potential in eastern Washington – Oral presentation (The temptation of Tempranillo, wine tasting and panel session). Washington Wine Growers Annual meeting, Kennewick (WA).

**Diverres G.,** Keller M. 2022. Riesling and partial rootzone drying, a promising relationship” - Poster and oral presentation | Washington Wine Growers Annual meeting, Kennewick (WA).

**Diverres G.**, Keller M. 2021. Irrigation for white wine grapes – Oral presentation and field day. Irrigated Agriculture Research and Extension Center, Prosser (WA).

**Diverres, G.**, Keller, M. 2020. Evaluating deficit irrigation strategies in Washington State - Poster and oral presentation. Washington Wine Growers Annual meeting, Kennewick (WA).

## **Awards, honors, grants, and fellowships**

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2022

Best student flash talk presentation in viticulture. 73rd American Society of Enology and Viticulture national conference.

Second place, graduate student poster session. WineVit conference, Washington Winegrowers association

American Society of Enology and Viticulture. Traditional scholarship

Dean Tucker/Anthony's restaurant graduate fellowship.

## **Certificates and other relevant skills**

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### **Certificates**

HIS Adult first aid, CPR, AED

Current trends of research in enology (Tendencias actuales de investigación en enología). CIAL-CSIC-UAM, Universidad Autónoma de Madrid (Spain).

Introduction to winemaking and wine tasting. Introducción a la enología y cata de vinos. Universidad Complutense de Madrid (Spain).

### **Languages**

Spanish (native)

English (C1)

French (A2)

## **Academic teaching**

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2026 Guest lecturer. VIT\_199, Fresno State University (USA).

2026 Guest lecturer. HRTM\_4330, New Mexico State University (USA).

2025 Guest lecturer. VITE\_255, Colorado Mesa University (USA).

2025 Guest lecturer. AGE\_4540, New Mexico State University (USA).

2025 Guest lecturer. HRTM\_4330, New Mexico State University (USA).

2025 Guest lecturer. VIT\_ENOL 490, Washington State University (USA).

2024 Guest lecturer. VIT\_ENOL 113, Washington State University (USA).

2023 Guest lecturer. VIT\_ENOL 113, Washington State University (USA).

2023 Guest lecturer. AGSCI\_323, Yakima Valley Community College (USA)