

# Curriculum Vitae - Raziél A. Ordóñez

## Contact information

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Full name: Raziél Antonio Ordóñez  
Nationality: Mexican  
Mobile Phone: +52 (229) 223 7458  
Email: [r.antonio@pvcf.udl.cat](mailto:r.antonio@pvcf.udl.cat), [raordonez10@gmail.com](mailto:raordonez10@gmail.com)

## 1. Education

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- 2011.06 - 2014.10     **PhD.**, Agronomy and plant physiology. Department of Crop and Forest Sciences, ETSEA – UdL, Lleida, Spain.  
*PhD thesis title:* “Response of yield and physiological attributes to nitrogen availability and heat in maize”
- 2010.03 – 2011.06     **MSc.**, Agronomy and food Systems. Department of Crop and Forest Sciences, ETSEA – UdL, Lleida, Spain.  
*Master thesis title:* “Comparative analysis of maize hybrids with different duration cycle grown under contrasting altitude and different nitrogen availabilities”
- 2003.08 – 2008.01     **BSc.**, Agronomy and plant breeding. Department of plant breeding, Antonio Narro Agricultural Autonomous University, Coahuila, Mexico.  
*Bachelor thesis title:* Different testers of heterotic groups for the selection of S1 generation in Maize (*Zea mays* L.)

## 2. Previous employment

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- 2014.08 – 2015.09     *Postgraduate Research Assistant:* Plant physiology laboratory (ETSEA- University of Lleida). Alcalde Rovira Roure, 191, Lleida, Spain.
- 2008.01 – 2010.01     *Research Assistant:* Maize Physiology Program (Global Maize Program at CIMMYT-Mexico). El Batán, Texcoco, State of Mexico, Mexico.

## 3. Awards and Scholarship

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- Postgraduate Research Assistant Fellowship: University of Lleida, Spain (2014-2015)
- PhD Fellowship. University of Lleida, Spain (2012-2014)
- Master degree Fellowship. University of Lleida, Spain (2010-2011)
- Bachelors scholarship. Antonio Narro University, Mexico. (2004-2008).
  
- PhD Excellent *Cum Laude*, University of Lleida (2014)
- Bachelor’s high honour, Antonio Narro University (2008)

#### 4. Peer reviewed publications

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1. Raziel A. Ordóñez, Roxana Savin, C. Mariano Cossani, Gustavo A. Slafer. (2015). Yield response to heat stress as affected by nitrogen availability in maize. *Field Crop Research* 183: 184-203.
2. Raziel A. Ordóñez, Roxana Savin, Gustavo A. Slafer (2015) Variation in the critical specific leaf nitrogen maximising yield among modern maize hybrids. *Field Crop Research* 172: 99-105.
3. Abdelhalim Elazab, Raziel A. Ordóñez, Roxana Savin, Gustavo A. Slafer, José Luis Araus. (2016). Detecting terminal heat stress effects on maize biomass and grain yield by remote sensing techniques. *European Journal of Agronomy* 73:11-24.
4. Jill Cairns, Ciro Sanchez, Mateo Vargas, Raziel Ordóñez, Jose Luis Araus (2012) Dissecting Maize Productivity. Ideotypes Associated with Grain Yield under Drought Stress and Well-Watered Conditions. *The International Journal of Integrative Plant Biology* 54 (12): 1007-1020.

#### 4.1 Submitted manuscripts

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1. Raziel A. Ordóñez, Roxana Savin, C. Mariano Cossani, Gustavo A. Slafer. (2015). Maize grain weight sensitivity to source-sink manipulations in a wide range of background environmental conditions. *Field Crop Research* (under revision)

#### 4.2 Manuscripts in preparation

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1. Raziel A. Ordóñez, Roxana Savin, Jaume Lloveras, Gustavo A. Slafer. Variation in yield generation within modern maize hybrids of different maturity type under contrasting nitrogen fertilization and growing conditions.
2. Raziel A. Ordóñez, Roxana Savin, Gustavo A. Slafer. Genotypic variation in fruiting efficiency among modern, well adapted maize hybrids in NE Spain growing under contrasting conditions.

#### 5. Poster presentations

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1. Antonio, R.A., Savin, R. y Slafer, G.A., 2011. Grain weight determination in contrasting hybrids of maize growing under different levels of nitrogen fertilization and altitude. XIX Reunión Nacional de la Sociedad Española Fisiología Vegetal y XII Congreso Hispano-Luso de Fisiología Vegetal, Castelló de la Plana, **Spain**.
2. Antonio, R.A., Savin, R. y Slafer, G.A. 2012. Grain weight determination in contrasting hybrids of maize. 12th Congress of the European Society for Agronomy. 20-24 August 2012. Helsinki, **Finland**.
3. Antonio, R.A., Savin, R., Slafer, G.A., 2013. Responsiveness of senescence traits and yield components to nitrogen fertilization in long and short cycle maize hybrids grown under a warm and a cool location. XX Reunión Nacional de la Sociedad Española Fisiología Vegetal y XIII Congreso Hispano-Luso de Fisiología Vegetal, Lisbon, **Portugal**.

4. Mayer, L.I., Antonio, R.A., Savin, R., Cirilo, A.G. y Maddonni, G.A. 2012. Kernel growth and quality traits of maize hybrids with different end-use at contrasting post-flowering thermal environments VI International Crop Science Congress. 6-10 August 2012. Bento Gonçalves, RS, **Brasil**.

## 6. Oral presentations

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1. Antonio, R.A. (2009). Oxygen isotope enrichment as indicator of yield potential of maize inbred lines under water limitation. Campeche, **Mexico**.
2. Antonio, R.A. (2013). Does nitrogen management affect the magnitude of yield penalty imposed by high-temperature in maize? 27<sup>th</sup> of June 2013. University of Lleida, **Spain**.
3. Antonio, R.A. (2014). Can specific leaf nitrogen be used to phenotype maize maximizing yield and nitrogen use efficiency? 29<sup>th</sup> of May 2014. Beijing, **China**.
4. Antonio, R.A. (2014). Variation in yield generation and in critical specific leaf nitrogen within modern maize hybrids of different maturity type under contrasting growing conditions. 17<sup>th</sup> of June 2014. University of Lleida, **Spain**.
5. Antonio, R.A. (2015). Challenges of the new era in science, Climatic change and food production. 3<sup>th</sup> of November 2015. Chiapas, **Mexico**.
6. Antonio, R.A. (2016). Response of yield and physiological attributes to nitrogen fertilization combined with heat stress and genetic variation in SLN variation in maize crop. 15<sup>th</sup> of January 2016. Ames, Iowa, **USA**.

## 7. Training and special courses

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2008.04 *Maize crop breeding by double haploid method*

*Institute:* Maize physiology, Global Maize Program (CIMMYT), El Batán, Texcoco.State of Mexico, Mexico.

2008.04 *New Tools for plant breeding and seed production systems*

*Institute:* International Maize and Wheat Improvement Centre (CIMMYT).

2008.09 *Modern genetic and workshop by QPM breeder's consortium in Latin-America*

*Institute:* International Maize and Wheat Improvement Centre (CIMMYT), El Batán, Texcoco. State of Mexico. Mexico.

## 8. Collaboration and team projects

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1. *Proyecto 8031-FONTAGRO*. Mitigar el Efecto de las altas temperatura en la productividad del Maíz. (Mitigation effect of high temperature on maize productivity) <http://www.fontagro.org/proyectos/altas-temperaturas-en-ma%C3%ADz>
2. *BMZ Project*. Institute: Precision phenotyping for improving drought tolerance in maize in southern Asia and Eastern Africa (German Federal Ministry for Economic Cooperation and Development) <http://maizephenotyping.cimmyt.org>

## 9. Competencies

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- *Crops work experience:* Maize, Wheat, Barley.

- *Plant breeding*: strong knowledge in breeding (conventional methods, double haploid technology).

## 10. Skills

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- *Phenotyping equipment management*: Green-Seeker, Porometer, ceptometer, spectroradiometers, SPAD, Infrared camera, LAI meter, Photosynthesis measurement. Micro-Kjeldahl.
- *Computer packages*: Microsoft Office: Word, Excel, Internet, Access and Power Point (ECDL).
- *Statistical Software*: SAS, JPM-PRO, SigmaPlot, Graph Pad Prism, Table Curve (professional level for all) and R (basic knowledge).

## 11. Languages

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- **Spanish** (Native)
- **English** Very good in speaking, writing and listening

**References:** Please contact these people for personal references

*Dr. Gustavo A. Slafer*, Research professor in the department of crops and forestry science at the University of Lleida, Spain. Phone: +34 973 00 3659, email: [slafer@pvcf.udl.cat](mailto:slafer@pvcf.udl.cat)

*Dr. Jose Luis Araus*, Research professor in the department of Biology at the University of Barcelona, Spain. Phone: +34 934 02 1469, email: [jaraus@ub.edu](mailto:jaraus@ub.edu)

*Dr. Jill E. Cairns*, Maize Physiology researcher at CIMMYT-Zimbabwe. Phone: +263 (4)301 807/945, email: [j.cairns@cgiar.org](mailto:j.cairns@cgiar.org)