

CRISTÓBAL VALENCIA

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EDUCATION

*Prescott College, Prescott, Arizona***B.A. – Environmental Studies****2012**

Competence: Agroecology

Breadth: Sustainable Community Development

Honors thesis: "Vernalization gene sequence in *Thinopyrum intermedium*"*University of Arizona, Tucson, Arizona***B.Sc. – Plant Science****2011**

Areas of focus: Biotechnology, Genetics, Pathology

*Northwestern University, Evanston, Illinois***B.Sc. – Political Science****2006-2007**

Minor – African Studies, Development

AWARDS

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|---|------------------|
| • Environmental Justice Scholar, Prescott College | 2009-2012 |
| • General Dillingham Agriculture Grant Recipient, University of Arizona | 2011 |
| • Udall Scholar, Udall Foundation | 2011 |
| • Geoffrey Boyce Environmental Studies Award, Prescott College | 2011 |
| • Garden Club of America Project Award Fellowship | 2009 |
| • Dougherty Scholar | 2009-2010 |
| • Dean's List, Northwestern University | 2006-2007 |
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RESEARCH EXPERIENCE

*Land Institute, Salina, Kansas***2012****Intern, Researcher**

Co-designed protocol and conducted research on intermediate wheatgrass and wheat hybrids. DNA extraction/purification, Primer design, PCR, Plant tissue culture, BLAST and bioinformatics.

*Jenner Farm Agroecology Research Center, Skull Valley, Arizona***2010****Undergraduate Researcher** – "Deficit irrigation and water use efficiency of *Phaseolus acutifolius* in central Arizona highlands."

Designed and carried out experiment to assess optimum water-use strategy for indigenous varieties of tepary bean. Involved as a collaborator in further research on nutrient cycling, crop stand architecture and legume-based fertility strategies.

*Hasera Rice Breeding Institute, Dhulikhel, Nepal***2009****Farming Instructor, Rice Breeder**

Co-developed curriculum for small-scale farming course, facilitated crosses between rice cultivars and assessed hybrids for trait development in situ with funding from Garden Club of America.

*Jinja Organization for Rural Development (ORUDE), Jinja, Uganda***2007****Organizer/Researcher** – Microfinance implementation for farmers.

Collaborated with local NGO to implement microcredit programs and determine

efficacy of programming in improving the livelihood of clients with funding from Foundation for Sustainable Development (FSD).

RELATED EXPERIENCE

ECOSA Institute, Prescott, Arizona

Design Intern

2010

Studied urban planning, ecologically integrated architecture, rendering techniques. Part of a design team that produced two large scale projects: a school campus in Ghana and a masterplan for the Prescott Rodeo grounds, a 40-acre site in central Prescott, Arizona. Was the main presenter for both projects with international audience via skype in West Africa for the school and local politicians/developers for a multimillion dollar contract that resulted in a sale of the firm's rodeo concept.

Prescott College Herbarium

Archivist

2009

Managed and reviewed submissions to the college's herbarium with special attention to preservation and maintenance of endemic and rare species catalogue.

Prescott College, Prescott, Arizona

Gardener

2009-2010

Maintained college vegetable demonstration garden/farms by planting, transplanting, creating watering regimes, grafting, compost management, cultivation, harvest, on-site farm tours.

King's Hill Farm, Calamine, Wisconsin

Intern

2009

Field laborer with specialization in high-value crops. Focus on disease management, farm equipment, harvest and market distribution.

LANGUAGES

- English – native language
- Spanish– speak, read, and write fluently
- French – speak and read/write with high proficiency

RELATED SKILLS

- NCBI and database sequence queries
- BLAST
- Primer design programs
- Microsoft Office programs and troubleshooting
- Adobe Illustrator/Photoshop and graphic design