

# Andrea Vanags-Louredo

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## EDUCATION

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**The University of Texas at Austin**, Austin TX Expected May 2021  
*Bachelor of Science and Arts in Biology*  
Minor in Educational Psychology | Ethics & Leadership in Healthcare Certificate

- GPA: 3.91

## RESEARCH EXPERIENCE

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**Freshman Research Initiative**, *Functional Genomics Research Stream*, Austin, TX 375 hours, August 2018-May 2019

*Undergraduate Researcher & Mentor*

- Performed BP and LR reactions followed by phenotypic analysis to examine how *r. varieornatus*' damage suppressing gene could affect transcription and the growth rate of model organisms such as *s.cerevisiae* and *Arabidopsis*.
- Conducted independent research and wrote semesterly research proposals
- Worked a total of 375 hours in a wet lab performing both *in vivo* and *in vitro* techniques
- Mentored incoming students and demonstrated correct wet-lab techniques

**Project Seed**, Austin TX 125 hours, August-December 2018

*Field Research Assistant*

- Worked as a Spanish-speaking field RA researching the effects of language brokering on Mexican-American immigrant children's social, educational, and emotional development
- Conducted survey inquests with Mexican-American families and collected participant blood and hair samples
- Confirmed appointments with families for participation in data collection through the Redcap program
- Trained both Spanish and English research assistants and conducted interviews for potential research assistants
- Served as a program coordinator for a branch project regarding Ojeda Middle School which engaged students in language learning

## HEALTHCARE EXPERIENCE

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**Atlantis Fellowship**, Póvoa de Varzim, Portugal 60 hours, July-August 2018

- Experienced physician office hours as well as patient cases including ICU in pediatrics, orthopedics, obstetrics, and general surgery
- Learned about cultural differences as well as disparities in international healthcare policy while in Centro Hospitalar Póvoa de Varzim

**Mockingbird OBGYN Clinic**, Round Rock TX 30 hours, October-December 2019

- Observed patient care interactions, small surgeries, and common gynecological procedures

## WORK EXPERIENCE

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**UT Austin Undergraduate TA**, *Scientific Inquiry Across the Disciplines under Dr. Laude*, Austin TX August-December 2018 & 2019

- Taught freshman undergraduate students critical reasoning, experiment design, and how to effectively approach data acquisition and analysis
- Assisted students with independent research projects

*Writer - Contributor*

- Composed weekly articles, participated in weekly discussions, and shared content on social media platforms to proliferate distribution of information

**ACTIVITIES & LEADERSHIP**

**Women in Science Society (WSS), Austin TX**

August 2018-Present

*President and Founder of the UT Austin Chapter*

- Founded the local chapter of a national not-for-profit organization and recruited over 20 active members
- Organized outreach efforts in order to educate the community about our mission
- Implemented initiatives to promote, educate, and motivate undergraduate women in the sciences
- Advocate for the inclusion of women in the STEM disciplines
- Lead officers, general body members, and work in conjunction with a faculty advisor

**Women of Excellence (WOE), Austin TX**

August 2017-Present

*Member & Mentor*

- Active member participating through the pillars of Leadership, Diversity, Mentorship, and Service by means of volunteering and professional faculty workshops
- Volunteer at various nonprofits around the Austin community such as the Food Bank and AAS.

**Latino Health Professions Organization, Austin TX**

August 2019-Present

*Member*

- Connect with local physicians and increase the Latinx health network
- Supply academic resources, opportunities in clinical settings, and peer support

**VOLUNTEERING**

**Helping Hand Home for Children, Austin, TX**

30 hours, August 2018-Present

- Design child-friendly science experiments and lesson plans for the occupants of HHH
- Encourage interest in science and creative thinking with memorable activities

**Posada Esperanza Casa Marianella, Austin, TX**

30 hours, August 2017-Present

- Ensure completion of essential daily needs such as cooking, cleaning, or childcare at a set of four transitional homes for immigrant mothers and their children escaping domestic or cultural violence

**SKILLS**

**Technical /Computer Skills:** Red-Cap, Microsoft Word- Advanced, Photoshop- Advanced, MATLAB- Basic, XLS, PPT, Digital Drawing

**Languages:** Fluent in Spanish

**Lab Techniques:** Amplification of DNA with PCR, Gel Electrophoresis, DNA & RNA Extraction, Reagents and Buffer Preparation

**HONORS**

**University Honors**

August 2017-Present

- Earned Honors rating every single year due to earning outstanding grades and coursework excellence

**College of Natural Sciences Second Year Excellence Award**

January 2019

- Awarded to second year students who have been identified as the top of their class in academic performance as measured by high academic achievement in courses and faculty nomination

**College Scholar**

January 2019-Present

- To receive this distinction students must rank in the top of their class based on in-residence cumulative grade point average, and have completed 60 hours of coursework