

Jensina Davis

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Objective	Contribute meaningful research to the field of computational biology with applications to agronomy and agronomic research to enable data-driven and sustainable agriculture.	
Education	University of Nebraska-Lincoln – Lincoln, NE <i>Ph.D. Student in Complex Biosystems</i> Specialization: Integrated Plant Biology	August 2022 – Present
	Iowa State University – Ames, IA <i>Bachelor of Science in Agronomy and Seed Science</i> <i>Summa cum laude & Honors</i> Minor: Statistics	August 2018 – May 2022
Experience	Trace Genomics – Ames, IA <i>Senior Agronomy Intern</i> <ul style="list-style-type: none">• Plan and execute research experiments• Collect data in lab and growth chamber environments• Perform statistical analyses for research experiments	February 2022 – August 2022
	Iowa State University Agronomy Department – Ames, IA <i>Undergraduate Research Assistant – Dr. Susana Goggi's lab</i> <ul style="list-style-type: none">• Collected moisture readings for 64 plots weekly• Dried, shelled, and collected data for 2500 ears of corn• Lead germination and cold vigor testing for seed drying research study	August 2019 – May 2022
	Corteva Agriscience™ – Remote <i>Global Technical Education Intern</i> <ul style="list-style-type: none">• Coordinated development of multiple technical education resources simultaneously• Authored technical content including factsheets, e-learning modules, and flashcards for customer-facing employees• Collaborated with relevant stakeholders across business functions• Translated research data into training resources to support product launches	May 2021 – August 2021
	Corteva Agriscience – Johnston, IA <i>Seed Science Research Intern</i> <ul style="list-style-type: none">• Managed independent research projects• Collected data on early season field traits• Analyzed data from various experiments	June 2020 – August 2020
	Allendan Seed Company – Winterset, IA <i>Grower's Assistant</i> <ul style="list-style-type: none">• Monitored water needs of plants in greenhouses• Maintained accurate records of transplanted material daily• Lead teams of 5 to 10 people to accomplish assigned tasks• Assisted in completing necessary seeding of various species	May 2019 – August 2019
	Iowa State University Agronomy Department – Ames, IA	September 2018 – October 2019

Undergraduate Research Assistant – Dr. Mary Wiedenhoef's lab

- Recorded mass data and prepare over 400 biomass samples for C:N ratio testing
- Collected biomass samples of soybean and canola for 16 treatment plots
- Quantified canopy cover and true leaves present for over 200 samples

SoDak Labs, Inc. - Brookings, SD

November 2014 – Present

Seed Technologist

(Seasonal August 2018 – January 2022)

- Evaluate germination and vigor tests per AOSA rules
- Perform ELISA tests
- Prepare test media and initiate tests
- Summarize the scientific literature on relevant topics and create educational flyers

**Publications
&
Presentations**

Davis, J. & Gutormson, T. (2021). *Bulk electrical conductivity test v.062021*. SoDak Labs, Inc. <https://sodaklabs.com/media/1501/13-bulk-electrical-conductivity-test-ver-2-62021.pdf>.

Davis, J., Shearer, L., & Gutormson, T. (2021). *Soybean seed coat damage test*. SoDak Labs, Inc. <https://sodaklabs.com/media/1468/soybean-seed-coat-damage-test-ver-1-22021.pdf>.

Davis, J. & Gutormson, T. (2021). *Soybean hilum examination: Morphology of hilum development*. SoDak Labs, Inc. <https://sodaklabs.com/media/1468/soybean-seed-coat-damage-test-ver-1-22021.pdf>.

Davis, J., Shearer, L., & Gutormson, T. (2021). *Sesame germination and dormancy breaking method development*. SoDak Labs, Inc. <https://sodaklabs.com/media/1493/21-sesame-germination-3-study-summary-pdf.pdf>.

Davis, J. (2021, April 21). *Artificial seed drying conditions and maize seed viability and vigor after storage*. In B. Hornbuckle (Moderator), *Agronomy and horticulture* [Presentation session] Iowa State Undergraduate Research Symposium, Ames, IA. www.regcytes.extension.iastate.edu/ignite/april-21st/.

**Professional
Affiliations**

American Seed Trade Association (ASTA)
Student Member

July 2020 – Present

**Honors &
Awards**

2022 NSF Graduate Research Fellow

April 2022

ISU CALS Spring 2022 Senior Academic Achievement Award

April 2022

Othmer Fellowship

March 2022

Fred Foreman Scholarship for Growth in Leadership Participation

March 2021

Iowa Seed Association Scholarship Award

February 2021

Manjit Misra Award for the Outstanding Senior in Seed Science

February 2021

David Lambert “Hunger Fighter” Memorial Scholarship

October 2020

Kemink Family Scholarship

July 2020

Highest 2% of Agriculture and Life Sciences Sophomores

May 2019

Agronomy Academic Fellowship

August 2018

College of Agriculture and Life Sciences Dean's Leadership Scholar

August 2018