RYLEIGH J. KIRBY

Personal: <u>rgrove1232@gmail.com</u> Work/School: <u>rkirby8@huskers.unl.edu</u> Cell: (531) 229-6448 615 Eastborough Lane, Lincoln, NE #68505

May 31 to Aug 2023

June 1 to Aug 2023

June 1 to Aug 2021

EDUCATION

BS December 2025 University of Nebraska-Lincoln Bachelor of Science in Plant Biology **On-Going** Coursework HSD Lincoln North Star High School *May 2022* Graduated Summa Cum Laude 3.9 Non-Weighted GPA, 4.2 Weighted GPA Advanced Placement and Differentiated Coursework **RESEARCH & TEACHING EXPERIENCE** University of Nebraska-Lincoln, Lincoln NE May 2022 to current Undergraduate Research Assistant, Dr. James Schnable • Gain expertise in plant genetics, comparative genomics, quantitative genetics, and high throughput phenotyping; assist in existing research projects University of Nebraska-Lincoln, Lincoln NE January 2024 to current Botany & Plant Science Teaching Assistant, Dr. Christian Elowsky • Run a three-hour botany (PLAS 278) lab as well as curated all material for PLAS 131 recitations University of Nebraska-Lincoln, Lincoln NE June 2024 to May 2025 UCARE Researcher, Research Advisor: Dr. James Schnable • Received funding to investigate the gene families' evolutionary pattern within the PACMAD grass clade University of Nebraska-Lincoln, Lincoln NE August to Dec 2024 Teaching Assistant, Dr. Georgina Bingham • Grading for introductory life sciences course (LIFE 120)

Syngenta Agrichemical Company, Slater IA

- NA Discovery Breeder Intern, Dr. Scott Stelpflug
 - Summer project that runs in conjunction with senior leaders in Syngenta

University of Nebraska-Lincoln, Lincoln NE

UCARE Researcher, Research Advisors: Dr. James Schnable & Mr. Dennis Ferraro

• Received funding to design a program to identify native Nebraska snake species automatically

University of Nebraska-Lincoln, Lincoln NE

Young Nebraska Scientist, Dr. James Schnable

• Received funding from Nebraska EPSCoR to conduct research as a high school intern

VOLUNTEER EXPERIENCE

The Career Academy, Lincoln NE

Capstone Mentor, Mr. Josh Jones

• Provided detailed feedback for approximately 40 different capstone projects proposed by students

University of Nebraska-Lincoln, Lincoln NE

Undergraduate Research Consultant, Dr. Santosh Pilta

• Provided feedback for automated robotic design in the Farm-ng challenge

EXTRACURRICULARS

UNL CASNR Student Advisory Board, Lincoln NE	Aug 2023 to current
Plant Biology Club, Lincoln NE <i>Member,</i> Club Advisor: Dr. Christian Elowsky <i>President,</i> Club Advisor: Dr. Christian Elowsky (<i>current role</i>)	Aug 2022 to current
Herpetology Club, Lincoln NE Member, Club Advisor: Mr. Dennis Ferraro Treasurer, Club Advisor: Mr. Dennis Ferraro Vice President, Club Advisor: Mr. Dennis Ferraro	Aug 2022 to current

PRESENTATIONS/TALKS

ASPB Midwest Annual Meeting, Lincoln, NE	March 21-22 2025
Maize Genetics Meeting, St. Louis, MO	March 6-9 2025
Kansas Herpetological Society Annual Meeting, Hays, KS	November 1-3 2024
Nebraska Plant Science Symposium, Lincoln, NE	April 29th 2024
UNL Student Research SLAM, Lincoln, NE	March 28th 2024
UNL Plant Science Symposium, Lincoln, NE	Nov 2nd 2023
National Corn Congress, Washington, D.C.	July 17-21 2023
UNL Student Research SLAM, Lincoln, NE	March 31st 2023
MLCAS Workshop/Conference, Ames, IA	Oct 10-11th 2022
NJAS State Conference, Lincoln, NE	March 28th 2022
UNL Research Symposium, Lincoln, NE	Aug 2021, 2022, 2023, 2024, 2025

ACADEMIC PUBLICATION(S)

Davis, J., Galliard, M., Tross, M., Shrestha, N., Ostermann, I., **Grove, R.**, Li, B., Benes, B., Schnable, J. (2025). <u>3D</u> <u>Reconstruction Enables High-Throughput Phenotyping and Quantitative Genetic Analysis of Phyllotaxy</u>. University of Nebraska, Lincoln. The Plant Phenome Journal. DOI: 10.03.616344

Tross, M., Grzybowski, M., Jubery, T., **Grove, R.**, Nishimwe, A., Torres-Rodriguez, J.V., Sun, G., Ganapathysubramanian, B., Schnable, J. (2024). <u>Data driven discovery and quantification of hyperspectral leaf</u> reflectance phenotypes across a maize diversity panel. University of Nebraska, Lincoln. The Plant Phenome Journal. DOI: 10.1002/ppj2.20106

Ostermann, I., Benes, D., Gaillard, M., Li, B., Davis, J., **Grove, R.**, Shrestha, N., Tross, M., Schnable, J. (2024). <u>Sorghum Segmentation and Leaf Counting Using in Silico Trained Deep Neural Model</u>. Purdue University, West Lafayette, Indiana. The Plant Phenome Journal. DOI: 10.1002/ppj2.70002

Tross, M. C., Gaillard, M., Zweiner, M., Miao, C., **Grove, R. J.**, Li, B., Benes, B., Schnable J. C. (2021). <u>3D</u> reconstruction identifies loci linked to variation in the angle of individual sorghum leaves. University of Nebraska, Lincoln. PeerJ. DOI: 10.1101/2021.06.15.448566.

<u>R</u>EFERENCES

Dr. James Schnable Nebraska Corn Checkoff Presidential Chair

Dr. Scott Stelpflug Head of NA Corn Germplasm Development at Syngenta

Dr. Christian Elowsky

Assistant Professor of Practice; Plant Biology Academic Advisor

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