Alex Cleveringa

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PROFESSIONAL SUMMARY

Ph.D. graduate in Crop Production & Physiology with a minor in Statistics and a strong foundation in agronomic research, field trial execution, and crop modeling. Experienced in analyzing multi-site trials, statistical modeling, and applying statistical methods in R. Skilled in data analysis and management, stakeholder communication, and mentoring students. Passionate about advancing sustainable crop management and translating science into actionable outcomes through cross-disciplinary collaboration.

EDUCATION

Doctor of Philosophy, Crop Production & Physiology *expected* **August 2025**
Minor in Statistics
Graduate Certificate in Data-Driven Food, Energy, and Water Decision Making
Department of Agronomy, Iowa State University, Ames, IA

Master of Science, Soil Science (Soil Management) **December 2020**
Department of Agronomy, Iowa State University, Ames, IA

Bachelor of Science, Agricultural Biochemistry **May 2015**
Department of Biochemistry, Biophysics, & Molecular Biology, Iowa State University, Ames, IA

RESEARCH & FIELD EXPERIENCE

Department of Agronomy, Iowa State University **January 2021 – Present**
Graduate Research Assistant, Crop Production and Physiology, Ames, IA

- Evaluate the effect of experimental design on the precision and accuracy of nitrogen rate recommendations, improving statistical rigor in fertilizer studies
- Characterize a novel nonlinear model offering biologically meaningful parameter estimates compared to alternative models
- Design an innovative analytical framework to classify yield responsiveness to phosphorus fertilizer based on predictability
- Co-develop an interactive website for stakeholders summarizing corn stalk nitrate test results across management practices

Department of Agronomy, Iowa State University **August 2018 – December 2020**
Graduate Research Assistant, Soil Management Lab, Ames, IA

- Quantified short-term effects of soil management practices on soil health and profitability, revealing conservation alternatives matched conventional practices
- Assisted with extension activities, presentations, meetings, reports, and field days

Plant Sciences Institute, Iowa State University **March 2016 – June 2017**
Research Associate I/Junior Nursery Manager, Ames, IA

- Coordinated field logistics for corn genetic research trials with research staff and graduate students
- Trained and supervised 12 undergraduate research assistants in field and greenhouse work

DuPont Pioneer Algona Research Station **May 2015 – March 2016**
Research Co-op, Algona, IA

- Identified refinements to field protocols to improve trait scoring consistency, resulting in adoption into the research station standard operating procedure
- Evaluated corn disease resistance in field trials, contributing data for hybrid selection in breeding programs