ALEX CLEVERINGA

Ph.D. in Crop Production & Physiology

Ph.D. graduate with 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-functional collaboration.

EDUCATION

2021 | 2025

Ph.D. in Crop Production & Physiology
Iowa State University — Ames, Iowa
Minor in Statistics
Graduate Certificate in Data-Driven Food, Energy, and Water Decision Making
Dissertation: “Soil fertility trials on trial for ‘noise’: statistical implications for soil fertility modeling”

2018 | 2020

M.S. in Soil Science (Soil Management)
Iowa State University — Ames, Iowa
Thesis: “Short-term effects of integrated tillage systems and cover crop on agronomic response and soil health in North Central Iowa”

2011 | 2015

B.S. in Agricultural Biochemistry
Iowa State University — Ames, Iowa

PROFESSIONAL EXPERIENCE

2021 | 2025

Graduate Research Assistant
Department of Agronomy, Iowa State University — Ames, Iowa
- Identified a 40% increase in standard error of optimal nitrogen rate recommendations in soil fertility experimental designs that exclude the control treatment
- Characterized a novel nonlinear model offering biologically meaningful parameter estimates compared to alternative models
- Designed an innovative analytical framework to classify yield responsiveness to phosphorus fertilizer based on predictability
- Co-developed an interactive website for stakeholders summarizing corn stalk nitrate test results across management practices

2018 | 2020

Graduate Research Assistant
Department of Agronomy, Iowa State University — Ames, Iowa
- Quantified short-term effects of soil management practices on soil health and profitability, documenting conservation alternatives matched the productivity of conventional practices
- Assisted with extension activities, presentations, meetings, reports, and field days

CONTACT INFO

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SKILLS

- Statistical analysis
- Crop modeling
- Nonlinear mixed models
- Data visualization
- Experimental design
- Multivariate analysis
- Data management
- R programming language
- Oral and written communication
- Microsoft Office

This resume was made with the R package pagedown.

Last updated on 2025-09-19.

2016 | 2017

Research Associate I
Plant Sciences Institute, Iowa State University — 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

2015 | 2016

Research Co-op
DuPont Pioneer — 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

FELLOWSHIPS & AWARDS

2024

1st place - Ph.D. Oral Presentation Competition
Conference on Applied Statistics in Agriculture and Natural Resources — Ames, IA

2024

2nd place - Ph.D. Oral Presentation Competition
ASA-CSSA-SSSA International Annual Meeting — San Antonio, TX

2023

2nd place - Ph.D. Poster Competition
ASA-CSSA-SSSA International Annual Meeting — St. Louis, MO

2021 | 2023

DataFEWSion Traineeship
National Science Foundation — Ames, IA