

# Alex Cleveringa

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## Professional Summary

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Applied agricultural scientist with a Ph.D. in Crop Production & Physiology and a minor in Statistics, specializing in field trial data analysis, nutrient management, and crop modelling. Experienced in interpreting multi-site agronomic data, developing decision support tools, and collaborating across disciplines to improve crop productivity. Skilled in statistical analysis (R), experimental design, and communicating results to both scientific and stakeholder audiences. Committed to scientific rigor, environmental stewardship, safety, and continuous improvement in innovative and practical research.

## Education

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### **Ph.D., Crop Production & Physiology** Summer 2025

Minor in Statistics

Graduate Certificate in Data-Driven Food, Energy, & Water Decision Making

Department of Agronomy, Iowa State University, Ames, IA

Major Advisor: Dr. Fernando Miguez

### **M.S., Soil Science (Soil Management)** Fall 2020

Department of Agronomy, Iowa State University, Ames, IA

Major Advisor: Dr. Mahdi Al-Kaisi

### **B.S., Agricultural Biochemistry** Spring 2015

Department of Biochemistry, Biophysics & Molecular Biology, Iowa State University, Ames, IA

## Fellowships, Honors, and Awards

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### **1<sup>st</sup> place - Oral Presentation Competition** 2024

Conference on Applied Statistics in Agriculture and Natural Resources, Ames, IA

### **2<sup>nd</sup> place - PhD Oral Presentation Competition** 2024

ASA-CSSA-SSSA International Annual Meeting, San Antonio, TX

### **2<sup>nd</sup> place - PhD Poster Competition** 2023

ASA-CSSA-SSSA International Annual Meeting, St. Louis, MO

### **DataFEWSion Traineeship** 2021-2023

### **Ruppert & Judeth Hunziker Graduate Scholarship in Soil Sciences** 2018

## Publications & Presentations

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### Peer-Reviewed

- Cleveringa, A. M.**, dos Santos, C. L., Miguez, F. E. (2025). Introducing the Quadratic-Plateau-Quadratic Function: Capturing the Ups and Downs [In Review]. Department of Agronomy, Iowa State University.
- Cleveringa, A. M.**, Ransom, C. J., McDaniel, M. D., Moore, K. J., Miguez, F. E. (2025). Losing control: What happens when the control treatment is excluded in nitrogen fertilizer rate trials? [In Review]. Department of Agronomy, Iowa State University.

- Laurent, A. C., **Cleveringa, A. M.**, Fey, S., Kyveryga, P. M., Wiese, N., Lefebvre, M., Newville, D., Quinn, D. J., McGuire, J., Tao, H., Morris, T. F., Miguez, F. E. (2023). Late-season corn stalk nitrate measurements across the US Midwest from 2006 to 2018. *Sci Data* 10, 192.  
<https://doi.org/10.1038/s41597-023-02071-9>.

#### Conference Abstracts

- Cleveringa, A. M.**, Ransom, C. J., & Miguez, F. E. (2024). *Losing Control: What happens when we exclude the control treatment from nitrogen fertilizer rate trials?* Nitrogen Use Efficiency Workshop. Ames, IA.
- Cleveringa, A. M.**, Ransom, C. J., & Miguez, F. E. (2024). *Losing Control: What happens when we exclude the control treatment in nitrogen fertilizer rate trials?* Advances in Nutrient Management Oral III (PhD Student Competition), ASA-CSSA-SSSA International Annual Meeting, San Antonio, TX.
- Cleveringa, A. M.**, & Miguez, F. E. (2023). *Can We Identify Covariates Using Absolute Yield for Fertilizer Recommendations?* ASA-CSSA-SSSA International Annual Meeting, St. Louis, MO.
- Cleveringa, A. M.**, & Miguez, F. E. (2022) *Absolute Yield Instead of Relative Yield for Fertilizer Recommendations?* Soil Fertility, Plant Nutrition, and Soil/Plant Analysis (PhD Student Competition), ASA-CSSA-SSSA International Annual Meeting, Baltimore, MD.  
<https://scisoc.confex.com/scisoc/2022am/meetingapp.cgi/Paper/145252>.
- Laurent, A. C., **Cleveringa, A. M.**, Kyveryga, P. M., Fey, S., & Miguez, F. E. (2021). *Late-Season Corn Stalk Nitrate from Farmer Fields: Development of an interactive app & data-analytics framework* [Abstract]. ASA-CSSA-SSSA International Annual Meeting, Salt Lake City, UT.

#### Invited Lectures

- Losing Control: What happens when we exclude the control treatment in nitrogen fertilizer rate trials? Fertilizer Rate Seminar Series, University of Florida/Institute of Food and Agricultural Sciences, Gainesville, FL, 2024.

#### Teaching Experience

<b>Teaching Assistant in Crop Development, Production, &amp; Management (AGRON 280)</b>	<b>2023</b>
<ul style="list-style-type: none"> <li>- Undergraduate level course with approximately 70 students</li> <li>- Taught a lecture on nutrient management</li> <li>- Graded weekly assignments and semester projects</li> </ul>	
<b>Teaching Assistant in Crop Field Research (AGRON 526)</b>	<b>2021</b>
<ul style="list-style-type: none"> <li>- Graduate level course with approximately 25 students</li> <li>- Graded weekly assignments</li> <li>- Provided weekly office hours to help students with assignments</li> </ul>	

#### Professional Service & Leadership

Fertilizer Recommendation Support Tool (FRST), Collaborator	<b>2023 – Present</b>
DataFEWSion Traineeship Leadership Committee, Student Representative	<b>2022 – 2023</b>
Outstanding Graduate Student Selection Committee, Member	<b>2022 – 2023</b>
Nitrogen Science Faculty Search Committee, Graduate Representative	<b>2023</b>

## Professional Memberships

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American Society of Agronomy (ASA)	<b>2022 - Present</b>
Crop Science Society of America (CSSA)	<b>2022 - Present</b>
Soil Science Society of America (SSSA)	<b>2022 – Present</b>

## Programming Languages

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